

Friday, February 05, 2010

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REQUEST NUMBER: 10-1620

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:8260B	1	1	RE15-10-8339	R	2/2/2010	
			RE15-10-8350	R	2/2/2010	
			RE15-10-8351	R	2/2/2010	
			RE15-10-8352	R	2/2/2010	
			RE15-10-8353	R	2/2/2010	
			RE15-10-8354	R	2/2/2010	
			RE15-10-8355	R	2/2/2010	
			RE15-10-8356	R	2/2/2010	
			RE15-10-8357	R	2/2/2010	
			RE15-10-8374	R	2/2/2010	
			RE15-10-8375	R	2/2/2010	
			RE15-10-8382	S	2/2/2010	
			RE15-10-8336	R	2/2/2010	
			RE15-10-8337	R	2/2/2010	
			RE15-10-8338	R	2/2/2010	
			RE15-10-8339	R	2/2/2010	
			RE15-10-8350	R	2/2/2010	
SW-846:8270C	1	1	RE15-10-8351	R	2/2/2010	
			RE15-10-8352	R	2/2/2010	
			RE15-10-8353	R	2/2/2010	
			RE15-10-8354	R	2/2/2010	
			RE15-10-8355	R	2/2/2010	
			RE15-10-8356	R	2/2/2010	
			RE15-10-8357	R	2/2/2010	
			RE15-10-8374	R	2/2/2010	
			RE15-10-8375	R	2/2/2010	
			RE15-10-8336	R	2/2/2010	
SW-846:8321A_MOD	1	1	RE15-10-8336	R	2/2/2010	
			RE15-10-8337	R	2/2/2010	
			RE15-10-8338	R	2/2/2010	
			RE15-10-8339	R	2/2/2010	
			RE15-10-8350	R	2/2/2010	
			RE15-10-8351	R	2/2/2010	
			RE15-10-8352	R	2/2/2010	
			RE15-10-8353	R	2/2/2010	
			RE15-10-8354	R	2/2/2010	
			RE15-10-8355	R	2/2/2010	
			RE15-10-8356	R	2/2/2010	
			RE15-10-8357	R	2/2/2010	
			RE15-10-8374	R	2/2/2010	
			RE15-10-8375	R	2/2/2010	
			RE15-10-8336	R	2/2/2010	
			RE15-10-8337	R	2/2/2010	

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PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:8321A_MOD						
		1	RE15-10-8338	R	2/2/2010	
		1	RE15-10-8339	R	2/2/2010	
		1	RE15-10-8350	R	2/2/2010	
		1	RE15-10-8351	R	2/2/2010	
		1	RE15-10-8352	R	2/2/2010	
		1	RE15-10-8353	R	2/2/2010	
		1	RE15-10-8354	R	2/2/2010	
		1	RE15-10-8355	R	2/2/2010	
		1	RE15-10-8356	R	2/2/2010	
		1	RE15-10-8357	R	2/2/2010	
		1	RE15-10-8374	R	2/2/2010	
		1	RE15-10-8375	R	2/2/2010	

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Friday, February 05, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1620

LOS ALAMOS

REQUEST NUMBER: 10-1620

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/7/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8382	1	SEPTUM AMBER GLASS	8260B Trip Blank	Ice	S
RE15-10-8354	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8354	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8356	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8356	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8353	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8353	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8352	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8352	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8355	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8355	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8351	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8351	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8350	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8350	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8357	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8357	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8338	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8338	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8336	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8336	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8339	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8339	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8337	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8337	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8375	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8375	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8374	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8374	1	SEPTUM AMBER GLASS	8260B	Ice	R

Relinquished By:

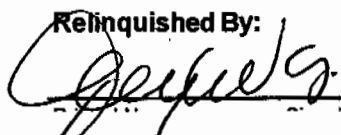
Date

Time

Received By:

Date

Time


 2/5/10 1400

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8336

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/02/2010		MEDIA:	QBT3		SEP
TIME COLLECTED (HH:MM)		0950		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-009(c)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610838	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	SED		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+ N03+PH	500 ML POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light brown sand and tuff fragments, frozen

FTB: RE15-10-8382

SAMPLE COMMENTS:

NA

LOCATION DESC:

9C-5, drainage below septic tanks

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha \leq 33 dpmBeta/Gamma \leq 1976 dpmPID $\frac{\text{Ambient Reading}}{0.0} = 0.0$ ppm

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

R. M. E.

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Estevan Lujan	2/3/10	(Printed Name)	2/3/10
(Signature)	08:10	(Signature)	8:10
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8337

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/02/2010		MEDIA:	OBT3		ok
TIME COLLECTED (HH:MM)		1006		SUB-MEDIA:	TUFF 1		↓
PRS ID:	15-009(c)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610838	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	1.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brownish gray tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

qc-5 drainage below septic tanks

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 11 dpm
Beta/Gamma ≤ 2010 dpm

PID $\frac{\text{Ambient}}{\text{Reading}} \frac{0.0}{0.0} \text{ppm}$

COLLECTED BY (PRINT)

T. McFarlane

REVIEWED BY (PRINT)

R. Key E.

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature) <i>E. Lujan</i>	Date/Time 2/3/10 8:09 AM	RECEIVED BY (Printed Name) <i>[Signature]</i> (Signature) <i>[Signature]</i>	Date/Time 2/3/10 8:09
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8338

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/02/2010		MEDIA:	OBT3		ok
TIME COLLECTED (HH:MM)		1353		SUB-MEDIA:	TUFF 1		↓
PRS ID:	15-009(c)		ok	SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610839		↓	FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC		↓	FIELD PREP:	NA		↓
TOP DEPTH:	0		0.0	SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0		0.8	SCREEN/PORT DESC:			NA
FIELD MATRIX:	R		R	EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Gray Tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

9C-9

~~Area where drainage ceases to be defined~~ 13m 2/2/10

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha \leq 11 dpmBeta/Gamma \leq 2100 dpmPID $\frac{\text{Ambient Reading}}{0.0} = 0.0$ ppm

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

Riley G

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Estevan Lujan	2/3/10	(Printed Name)	2/3/10
(Signature) E-Lujan	8:14 AM	(Signature)	8:14
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8339

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/02/2010		MEDIA:	OBT3		ok
TIME COLLECTED (HH:MM)		1405		SUB-MEDIA:	TUFF 1		L
PRS ID:	15-009(c)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610839			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	2.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+ N03+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Gray and white tuff, roots
FD: RE 15-10-8374

SAMPLE COMMENTS:

NA

LOCATION DESC:

qc-9

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 11 dpm

Beta/Gamma = 2140 dpm

PID $\frac{\text{Ambient Reading}}{4.1} = 0.0$ ppm

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

Kry G.

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature)	Date/Time 2/3/10 08:14AM	RECEIVED BY (Printed Name) (Signature)	Date/Time 2/3/10 814
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8350

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/02/2010		MEDIA:	QBT3		ok
TIME COLLECTED (HH:MM)		1040		SUB-MEDIA:	TUFF 1		↓
PRS ID:	15-009(c)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610845	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.7		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	VA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			

BOREHOLE: YES/NO/NA

BOREHOLE DECLINATION: NA

BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Whitish gray, tuff and brown sand

SAMPLE COMMENTS:

NA

LOCATION DESC:

9c-6 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha \leq 0 dpm
 Beta/Gamma \leq 1811 dpm

PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

Th. McFarlane

REVIEWED BY (PRINT)

Riley E

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Estevan Lujan	2/2/10	(Printed Name)	2/3/10
(Signature)	8:11 AM	(Signature)	8:11
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8351

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/02/2010		MEDIA: OBT3		ok	
TIME COLLECTED (HH:MM)		1051		SUB-MEDIA: TUFF 1		↓	
PRS ID:	15-009(c)	ok		SAMPLE TECH CODE: HA		NA	
LOCATION ID:	15-610845	↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE:	GENERIC	↓		FIELD PREP: NA		↓	
TOP DEPTH:	0	1.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH:	0	1.2		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	ok		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+N03+PH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brownish gray, tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

9c-6 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha ≤ 22 dpm

Beta/Gamma ≤ 2080 dpm

 PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{1.3} \text{ ppm}$ T3m 2/2/10

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

K. Ray E.

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Estevan Luis	2/3/10	(Printed Name)	2/3/10
(Signature)	8:10 AM	(Signature)	8:10
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8352

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/02/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1127		SUB-MEDIA:		TUFF 1	
PRS ID: 15-009(c)		OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID: 15-610846		↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE: GENERIC		↓		FIELD PREP: NA		↓	
TOP DEPTH: 0		0.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH: 0		0.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

moist pinkish gray tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

9c-7 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 16 dpm
Beta/Gamma = 2036 dpm

PID Ambient Reading 0.0 ppm

COLLECTED BY (PRINT)

ThMcFarland

REVIEWED BY (PRINT)

RMY 9.

RELINQUISHED BY (Printed Name) Estevan Lujan	Date/Time 2/3/10	RECEIVED BY (Printed Name)	Date/Time 2/3/10
(Signature)	08:11	(Signature)	8:11
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8353

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/03/2010		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		1137		SUB-MEDIA:	TUFF 1		↓
PRS ID:	15-009(c)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610846	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	2.0		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Gray tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

qc-7 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 0 dpm
Beta/Gamma \leq 2380 dpm

PID $\frac{\text{Ambient Reading}}{0.0} = 0.0$ ppm

COLLECTED BY (PRINT)

TLMcFarlane

REVIEWED BY (PRINT)

Riley E.

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature)	Date/Time 2/3/10 8:12 AM	RECEIVED BY (Printed Name) (Signature)	Date/Time 2/3/10 8:12
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8354

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/02/2010		MEDIA: OBT3		SED	
TIME COLLECTED (HH:MM)		1309		SUB-MEDIA: TUFF 1		NA	
PRS ID:	15-009(c)	ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID:	15-610847	↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE:	GENERIC	↓		FIELD PREP: NA		↓	
TOP DEPTH:	0	0.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH:	0	0.7		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	SED		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

moist brown sand and tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

9c-8 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 11 dpm
Beta/Gamma \leq 2100 dpm

14E negative

PID $\frac{\text{Ambient Reading}}{0.0} = 0.0$ ppm

COLLECTED BY (PRINT)

T. McFarland

REVIEWED BY (PRINT)

R. M. G.

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Estevan Lujan	2/3/10	(Printed Name)	2/3/10
(Signature) E. Lujan	8:13 pm	(Signature)	8:13
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8355

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/02/2010		MEDIA:	OBT3		ok
TIME COLLECTED (HH:MM)		1317		SUB-MEDIA:	TUFF 1		
PRS ID:	15-009(c)	ok		SAMPLE TECH CODE:	HA		
LOCATION ID:	15-610847			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	2.0		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Gray sandy tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

9c-8 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 33 dpm
 Beta/Gamma \leq 2280 dpm

PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.0} \text{ ppm}$

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

R. W. S.

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Estevan Lujan	2/3/10	(Printed Name)	2/3/10
(Signature) E. S.	8:13 AM	(Signature)	8:13
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8356

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
DATE COLLECTED(MM/DD/YYYY):		02/02/2010	MEDIA:	QBT3	Allh
TIME COLLECTED (HH:MM)		1427	SUB-MEDIA:	TUFF 1	NA
PRS ID: 15-009(c)		ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID: 15-610848		↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE: <u>GENERIC</u>		↓	FIELD PREP:	NA	↓
TOP DEPTH: 0		0.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH: 0		0.8	SCREEN/PORT DESC:		NA
FIELD MATRIX: B		S	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE: NA			COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA

#.	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+ N03+pH	500 ML POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown silty sand, moist, stuff fragments
FD: RE 15-10-8375

SAMPLE COMMENTS:

NA

LOCATION DESC:

9c-10

Area where drainage ceases to be defined
HE neg

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 11 dpm
Beta/Gamma \leq 2220 dpm

PID $\frac{\text{Ambient Reading}}{0.0}$ ppm

COLLECTED BY (PRINT)

L. McFarlane

REVIEWED BY (PRINT)

Riley E

RELINQUISHED BY (Printed Name) <i>Estevan Lujan</i>	Date/Time 2/3/10	RECEIVED BY (Printed Name)	Date/Time 2/3/10
(Signature) <i>[Signature]</i>	08:15 AM	(Signature) <i>[Signature]</i>	8:15
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8357

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
DATE COLLECTED(MM/DD/YYYY):		02/02/2010	MEDIA:	OBT3	OK
TIME COLLECTED (HH:MM)		1440	SUB-MEDIA:	TUFF 1	1
PRS ID: 15-009(c)		OK	SAMPLE TECH CODE:	HA	OK
LOCATION ID: 15-610848		↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE: <u>GENERIC</u>		↓	FIELD PREP:	NA	↓
TOP DEPTH: 0		1.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH: 0		2.0	SCREEN/PORT DESC:		NA
FIELD MATRIX: R		R	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE: NA			COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA

#.	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+ N03+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Gray tuff

FR: RE15-10-8378

SAMPLE COMMENTS:

Tuff at 9 inches

LOCATION DESC:

9c-10

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 27 dpm
 Beta/Gamma \leq 2210 dpm

PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

Th. McFarland

REVIEWED BY (PRINT)

R. Day

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature)	Date/Time 2/3/10 08:15 AM	RECEIVED BY (Printed Name) (Signature)	Date/Time 2/3/10 8:15
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8374

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/02/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1405		SUB-MEDIA:		TUFF 1	
PRS ID: 15-009(c)		ok		SAMPLE TECH CODE:		HA	
LOCATION ID: UNK		15-610839		FIELD QC TYPE:		ED	
LOCATION TYPE: GENERIC		ok		FIELD PREP:		NA	
TOP DEPTH: 0		1.0		SAMPLE USAGE:		QC	
BOTTOM DEPTH: 0		3.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE 15-10-8339

Gray, and white tuff, roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

9c-9

FIELD SCREENING/MEASUREMENT RESULTS:

PID $\frac{\text{Ambient Reading}}{4.1} = 0.0$ ppmAlpha ≤ 11 dpm
Beta/Gamma ≤ 2140 dpm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

R May 9.

RELINQUISHED BY (Printed Name) Estewen Lujan (Signature)	Date/Time 2/3/10 08:15A	RECEIVED BY (Printed Name) (Signature)	Date/Time 2/3/10 8:15
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8375

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
DATE COLLECTED(MM/DD/YYYY):		02/02/2010	MEDIA:	OBT3	AMH
TIME COLLECTED (HH:MM)		1427	SUB-MEDIA:	TUFF 1	NA
PRS ID: 15-009(c)		ok	SAMPLE TECH CODE: HA		ok
LOCATION ID: UNK		15-610848	FIELD QC TYPE: FD		↓
LOCATION TYPE: GENERIC		ok	FIELD PREP: NA		↓
TOP DEPTH: 0		0.0	SAMPLE USAGE: QC		↓
BOTTOM DEPTH: 0		0.8	SCREEN/PORT DESC:		NA
FIELD MATRIX: R		S	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE: NA			COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER <i>12m 2/2/10</i>	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1	↓	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U- GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+ N03+pH	500 ML POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of

RE15-10-8356

Brown silty sand, moist, tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

QC-10

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

PID $\frac{\text{Ambient Reading}}{0.0} = 0.0$ ppm

Alpha ≤ 11 dpm
Beta/Gamma ≤ 2220 dpm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Ray G.

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature) <i>E. Lujan</i>	Date/Time 2/3/10 08:15 AM	RECEIVED BY (Printed Name) <i>[Signature]</i> (Signature) <i>[Signature]</i>	Date/Time 2/3/10 8:15
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8378

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/02/2010	MEDIA:	NA	OK
TIME COLLECTED (HH:MM)		1537	SUB-MEDIA:	OTHER	
PRS ID:	15-009(c)	OK	SAMPLE TECH CODE:	DC	
LOCATION ID:	UNK	15-610848	FIELD QC TYPE:	ER	
LOCATION TYPE:	GENERIC	OK	FIELD PREP:	UF	
TOP DEPTH:	0		SAMPLE USAGE:	QC	
BOTTOM DEPTH:	0		SCREEN/PORT DESC:		NA
FIELD MATRIX:	W		EXCAVATED: YES/NO/NA		
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA	
			WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION:	NA	
			BOREHOLE DIRECTION:	NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	METALS+U-GEL	1 LITER POLY	Nitric Acid	Y	
1		NO3NO2	250 ML POLY	Sulfuric Acid (Hydrogen Sulfate)	N	
1	Normal	SW-846:6850	250 ML POLY	Ice	Y	
1	✓	TCN	500 ML POLY	Sodium Hydroxide	Y	

SAMPLE DESC: QC Sample of RE 15-10-8357

SAMPLE COMMENTS:

Rinsate

LOCATION DESC:

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

Th McFarlane

REVIEWED BY (PRINT)

R. E.

RELINQUISHED BY (Printed Name) Esten Lujan (Signature) [Signature]	Date/Time 2/3/10 0821 AM	RECEIVED BY (Printed Name) [Signature] (Signature) [Signature]	Date/Time 2/3/10 8:21
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8382

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/02/2010	MEDIA:	FILL	ok
TIME COLLECTED (HH:MM)		0945	SUB-MEDIA:	SOIL	
PRS ID:	15-009(c)	ok	SAMPLE TECH CODE:	DC	
LOCATION ID:	UNK	15-610838	FIELD QC TYPE:	FTB	
LOCATION TYPE:	GENERIC	ok	FIELD PREP:	NA	
TOP DEPTH:	0		SAMPLE USAGE:	QC	
BOTTOM DEPTH:	0		SCREEN/PORT DESC:	NA	
FIELD MATRIX:	S		EXCAVATED: YES/NO/NA		
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA	
			WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION:	NA	
			BOREHOLE DIRECTION:	NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8260B Trip Blank	40 ML SEPTUM AMBER GLASS	Ice	Y	

SAMPLE DESC: QC Sample of RE15-10-8336

SAMPLE COMMENTS:

NA

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Riley E.

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Estevan Lujan	2/3/10	(Printed Name) [Signature]	2/3/10
(Signature) [Signature]	8:21 AM	(Signature) [Signature]	8:21
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

Rad Screening Data Release Form

The Following samples were received at the Field Support Facility (FSF) without screening data (list sample number):

RE15-10-8337	RE15-10-8338
" "8336	" "8339
" "8350	" "8374
" "8351	" "8375
" "8352	" "8356
" "8353	8357
" "8354	
" "8355	

These samples will not be shipped until radiological screening data documentation arrives at the FSF. I understand that it is my responsibility to ensure this information arrives at the FSF in a timely manner. If holding times are missed because screening data does not arrive, I will pick up the samples.

.....

The following samples do not require rad screening data for the reasons stated (list sample numbers):

RE15-10-8378
RE15-10-~~8378~~ 8382

Reason:

.....

Print Last Name

Lujan

Signature



Date

2/3/10

DATA VALIDATION COVER SHEET

5114-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1620 VALIDATION DATE: 03/30/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Joanne Compton ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

- | | | | |
|--|--|---|---|
| <input type="checkbox"/> TPH-GRO | <input type="checkbox"/> HIGH EXPLOSIVES | <input type="checkbox"/> DIOXIN FURANS | <input type="checkbox"/> LCMSMS PERCHLORATES |
| <input type="checkbox"/> TPH-DRO | <input type="checkbox"/> METALS | <input type="checkbox"/> PCB CONGENERS | <input type="checkbox"/> ORGANOCHLORINE |
| <input type="checkbox"/> GENERAL CHEMISTRY | <input type="checkbox"/> RADIOCHEMISTRY | <input type="checkbox"/> LCMSMS HIGH EXPLOSIVES | <input type="checkbox"/> PESTICIDES/POLYCHLORINATED BIPHENYLS |

☒ OTHER (DESCRIBE): VOCs

Section II. Completeness Check

- | YES | NO | N/A | (CHECK ONE) | YES | NO | N/A | (CHECK ONE) |
|-------------------------------------|--------------------------|-------------------------------------|-----------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. CHAIN-OF-CUSTODY FORM(S) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. RAW/BSS DATA |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. CASE NARRATIVE | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7. QUALITY CONTROL FORMS |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. SAMPLE RESULT FORMS | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8. QUANTITATION REPORTS |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4. SAMPLE CHROMATOGRAMS | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9. TICS FORMS |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 5. STANDARD CHROMATOGRAMS | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 10. TICS MASS SPECTRA |

Comments/problems noted (include information about requests for further information submitted to the contract laboratory and agreed-upon date of resolution and contract laboratory point of contact):

1. In the FR blank, RE15-10-8382, associated with samples -8336 and -8337, acetone was detected. The associated sample results were NDs and, thus, were not qualified.
2. In the CCV associated with samples -8338, -8336, -8337 and -8374 the %Ds were >20% for bromomethane, n-butylbenzene, and 2-hexanone. The associated sample results were NDs and, thus, were qualified UJ, V7c.
3. The LCS %R for bromomethane was > the laboratory UAL. The associated sample results were NDs and, thus, were not qualified.
4. The MS/MSD associated with this RN was not spiked with trichlorotrifluoroethane. The MS/MSD RPDs for acetone and 2-butanone were > the laboratory UAL. Since the analysis of an MS or an MSD was not a client requirement, no sample data were qualified as a result.


Reviewed by: Mary Donovan

Level: I

Date: 04/01/10

VALIDATOR'S SIGNATURE: Joanne Compton

DATE: 03/30/10

VOLATILE ORGANIC COMPOUND (VOC) ANALYTICAL DATA VALIDATION CHECKLIST	
5114-2 Volatile Organic Compound (VOC) Analytical Data Validation Checklist	Records Use only 

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, V9	J-, V9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, V9a	J-, V9a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. The instrument performance sample did not pass method acceptance criteria.	R, V16	R, V16
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. Samples were analyzed outside specific method tune time criteria.	N/A	J, V16b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. The required instrument performance sample information is missing. Contact the SMO or external laboratory for information.	R, V16c	R, V16c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ or R, V7	J, V7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.995.	UJ, V7a	J, V7a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. The affected analytes were analyzed with an RRF of <0.05 in the initial calibration and/or CCV.	R, V7b	J, V7b
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9. The Initial Calibration Verification (ICV) and/or Continuing Calibration Verification (CCV) were recovered outside the method-specific limits.	UJ, V7c	J, V7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, V7d	J, V7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, V7f	R, V7f

VOLATILE ORGANIC COMPOUND (VOC) ANALYTICAL DATA VALIDATION CHECKLIST


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Volatile Organic Compound (VOC) Analytical Data Validation Checklist

Records Use only



Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12. The sample result is $\leq 5X$ (10X for common organic laboratory contaminants) the concentration of the related analyte in the method blank.	U, V4	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was $>5X$ (10X for common laboratory contaminants).	N/A	J, V4a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14. The sample result is $\leq 5X$ the concentration of the related analyte in the trip blank, rinsate blank, and/or equipment blank.	U, V4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, V4e	R, V4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. The IS retention time has shifted by more than 30 seconds.	UJ, V0	J, V0
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17. Analyte is positively confirmed but outside the IS retention time window; however, spectral matches must be provided.	N/A	J, V0a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. Required IS retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, V0b	R, V0b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	19. The quantitating IS are count is $<10\%$ of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation. Follow method-specific windows.	R, V1a	J, V1a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20. The IS area count for the quantitating IS is $<50\%$ but $>10\%$ for organics window relation to the previous continuing calibration. Follow the method-specific windows.	UJ, V1b	J, V1b

VOLATILE ORGANIC COMPOUND (VOC) ANALYTICAL DATA VALIDATION CHECKLIST	
5114-2 Volatile Organic Compound (VOC) Analytical Data Validation Checklist	Records Use only 

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	21. The IS area count for the quantitating IS is >200% of the area count for the previous organic continuing calibration. Follow the method-specific windows.	UJ, V1c	J, V1c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	22. Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, V1d	R, V1d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. The surrogate is <10%R. Follow the external laboratory limits located within the associated data package.	R, V3	J-, V3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. The surrogate is < the Lower Acceptance Limit (LAL) but ≥10%R. Follow the external laboratory limits located within the associated data package.	UJ, V3a	J-, V3a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The surrogate %R is > the Upper Acceptance Limit (UAL) Follow the external laboratory limits located within the associated data package.	N/A	J+, V3b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. At least one surrogate is > the UAL and one surrogate is < the LAL. Follow the external laboratory limits located within the associated data package.	UJ, V3c	J, V3c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. Required surrogate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, V3d	R, V3d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS percent recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, V12	J-, V12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29. The LCS percent recovery was < the LAL but > 10%. Follow the external laboratory limits located within the associated data package.	UV, V12a	J-, V12a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	30. The LCS percent recover was > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, V12b

VOLATILE ORGANIC COMPOUND (VOC) ANALYTICAL DATA VALIDATION CHECKLIST

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Volatile Organic Compound (VOC) Analytical Data Validation Checklist

Records Use only



Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, V12c	R, V12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	32. The affected analyte is considered not detected because mass spectrum did not meet specifications.	N/A	U, V8
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	33. The mass spectrum column documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, V8a	R, V8a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	34. Duplicate, dilution, or reanalysis.	UJ, V88	J, V88
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	35. The affected analytes have elevated detection limits and may not meet project DQOs because the sample was diluted without any target analytes identified due to matrix interference. Qualify as Reject if the analytical laboratory cannot provide proof for matrix interference.	UJ, R, V15	R, V15
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	36. Qualification of data via data validation did not occur based on Quality Control requirements in this procedure. Adhere to the external laboratory qualifiers found within the Form I analytical data summary sheets generated by the external laboratory.	U, U_LAB	J, J_LAB, NQ, NQ
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	37. The LANL project chemist identified quality deficiencies in the reported data that requires further qualification. This code can only be used and/or under advisement by the LANL project chemist.	UJ, R, V19	J, R, V19

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434001

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: S
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

Client ID: RE15-10-8382
 Batch ID: 952586
 Run Date: 02/12/2010 21:43
 Prep Date: 02/12/2010 11:04
 Data File: 021210V2.b\2Y532.D

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.00	ug/kg	0.340	1.00
74-87-3	Chloromethane	U	1.00	ug/kg	0.300	1.00
75-01-4	Vinyl chloride	U	1.00	ug/kg	0.300	1.00
74-83-9	Bromomethane	U	1.00	ug/kg	0.300	1.00
75-00-3	Chloroethane	U	1.00	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/kg	0.300	1.00
67-64-1	Acetone	J	2.68	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
74-88-4	Iodomethane	U	5.00	ug/kg	1.60	5.00
75-09-2	Methylene chloride	U	5.00	ug/kg	2.00	5.00
75-15-0	Carbon disulfide	U	5.00	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/kg	0.300	1.00
78-93-3	2-Butanone	U	5.00	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
67-66-3	Chloroform	U	1.00	ug/kg	0.300	1.00
74-97-5	Bromochloromethane	U	1.00	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene	U	1.00	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/kg	0.300	1.00
71-43-2	Benzene	U	1.00	ug/kg	0.300	1.00
79-01-6	Trichloroethylene	U	1.00	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/kg	0.300	1.00
74-95-3	Dibromomethane	U	1.00	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
108-88-3	Toluene	U	1.00	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/kg	0.300	1.00
591-78-6	2-Hexanone	U	5.00	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane	U	1.00	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene	U	1.00	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane	U	1.00	ug/kg	0.300	1.00
108-90-7	Chlorobenzene	U	1.00	ug/kg	0.300	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: S
Lab Sample ID: 246434001	Date Received: 02/06/2010 09:15	
Client ID: RE15-10-8382	Client: LANL010	Project: LANL01004
Batch ID: 952586	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/12/2010 21:43	Inst: VOA2.I	Dilution: 1
Prep Date: 02/12/2010 11:04	Analyst: CDS1	Purge Vol: 5 mL
Data File: 021210V2.b\2Y532.D	Allquot: 5 g	Final Volume: 5 mL
	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.00	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes	U	2.00	ug/kg	0.300	2.00
95-47-6	o-Xylene	U	1.00	ug/kg	0.300	1.00
100-42-5	Styrene	U	1.00	ug/kg	0.300	1.00
75-25-2	Bromoform	U	1.00	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane	U	1.00	ug/kg	0.300	1.00
108-86-1	Bromobenzene	U	1.00	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene	U	1.00	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene	U	1.00	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene	U	1.00	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene	U	1.00	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene	U	1.00	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene	U	1.00	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/kg	0.300	1.00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.00	ug/kg	1.60	5.00
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.32	20.7	ug/kg	0	J

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434002

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8260B
Inst: VOA2.I
Analyst: CDS1
Allquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 22
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL

Client ID: RE15-10-8354

Batch ID: 952586

Run Date: 02/12/2010 22:12

Prep Date: 02/12/2010 11:05

Data File: 021210V2.b\2Y533.D

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.28	ug/kg	0.436	1.28
74-87-3	Chloromethane	U	1.28	ug/kg	0.385	1.28
75-01-4	Vinyl chloride	U	1.28	ug/kg	0.385	1.28
74-83-9	Bromomethane	U	1.28	ug/kg	0.385	1.28
75-00-3	Chloroethane	U	1.28	ug/kg	0.385	1.28
75-69-4	Trichlorofluoromethane	U	1.28	ug/kg	0.385	1.28
67-64-1	Acetone	U	6.41	ug/kg	2.13	6.41
75-35-4	1,1-Dichloroethylene	U	1.28	ug/kg	0.385	1.28
74-88-4	Iodomethane	U	6.41	ug/kg	2.05	6.41
75-09-2	Methylene chloride	U	6.41	ug/kg	2.56	6.41
75-15-0	Carbon disulfide	U	6.41	ug/kg	1.60	6.41
156-60-5	trans-1,2-Dichloroethylene	U	1.28	ug/kg	0.385	1.28
75-34-3	1,1-Dichloroethane	U	1.28	ug/kg	0.385	1.28
78-93-3	2-Butanone	U	6.41	ug/kg	1.92	6.41
156-59-2	cis-1,2-Dichloroethylene	U	1.28	ug/kg	0.385	1.28
594-20-7	2,2-Dichloropropane	U	1.28	ug/kg	0.385	1.28
67-66-3	Chloroform	U	1.28	ug/kg	0.385	1.28
74-97-5	Bromochloromethane	U	1.28	ug/kg	0.423	1.28
71-55-6	1,1,1-Trichloroethane	U	1.28	ug/kg	0.385	1.28
563-58-6	1,1-Dichloropropene	U	1.28	ug/kg	0.385	1.28
56-23-5	Carbon tetrachloride	U	1.28	ug/kg	0.385	1.28
107-06-2	1,2-Dichloroethane	U	1.28	ug/kg	0.385	1.28
71-43-2	Benzene	U	1.28	ug/kg	0.385	1.28
79-01-6	Trichloroethylene	U	1.28	ug/kg	0.423	1.28
78-87-5	1,2-Dichloropropane	U	1.28	ug/kg	0.385	1.28
75-27-4	Bromodichloromethane	U	1.28	ug/kg	0.385	1.28
74-95-3	Dibromomethane	U	1.28	ug/kg	0.385	1.28
108-10-1	4-Methyl-2-pentanone	U	6.41	ug/kg	1.60	6.41
10061-01-5	cis-1,3-Dichloropropylene	U	1.28	ug/kg	0.385	1.28
108-88-3	Toluene	U	1.28	ug/kg	0.385	1.28
10061-02-6	trans-1,3-Dichloropropylene	U	1.28	ug/kg	0.385	1.28
79-00-5	1,1,2-Trichloroethane	U	1.28	ug/kg	0.385	1.28
591-78-6	2-Hexanone	U	6.41	ug/kg	1.92	6.41
142-28-9	1,3-Dichloropropane	U	1.28	ug/kg	0.385	1.28
127-18-4	Tetrachloroethylene	U	1.28	ug/kg	0.385	1.28
124-48-1	Dibromochloromethane	U	1.28	ug/kg	0.385	1.28
106-93-4	1,2-Dibromoethane	U	1.28	ug/kg	0.385	1.28
108-90-7	Chlorobenzene	U	1.28	ug/kg	0.385	1.28

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434002	Date Received: 02/06/2010 09:15	%Moisture: 22
Client ID: RE15-10-8354	Client: LANL010	Project: LANL01004
Batch ID: 952586	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/12/2010 22:12	Inst: VOA2.I	Dilution: 1
Prep Date: 02/12/2010 11:05	Analyst: CDS1	Purge Vol: 5 mL
Data File: 021210V2.b\2Y533.D	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.28	ug/kg	0.385	1.28
179601-23-1	m,p-Xylenes	U	2.56	ug/kg	0.385	2.56
95-47-6	o-Xylene	U	1.28	ug/kg	0.385	1.28
100-42-5	Styrene	U	1.28	ug/kg	0.385	1.28
75-25-2	Bromoform	U	1.28	ug/kg	0.385	1.28
79-34-5	1,1,2,2-Tetrachloroethane	U	1.28	ug/kg	0.385	1.28
96-18-4	1,2,3-Trichloropropane	U	1.28	ug/kg	0.385	1.28
108-86-1	Bromobenzene	U	1.28	ug/kg	0.385	1.28
103-65-1	n-Propylbenzene	U	1.28	ug/kg	0.385	1.28
95-49-8	2-Chlorotoluene	U	1.28	ug/kg	0.385	1.28
98-82-8	Isopropylbenzene	U	1.28	ug/kg	0.385	1.28
108-67-8	1,3,5-Trimethylbenzene	U	1.28	ug/kg	0.385	1.28
106-43-4	4-Chlorotoluene	U	1.28	ug/kg	0.385	1.28
98-06-6	tert-Butylbenzene	U	1.28	ug/kg	0.385	1.28
95-63-6	1,2,4-Trimethylbenzene	U	1.28	ug/kg	0.385	1.28
135-98-8	sec-Butylbenzene	U	1.28	ug/kg	0.385	1.28
99-87-6	4-Isopropyltoluene	U	1.28	ug/kg	0.385	1.28
541-73-1	1,3-Dichlorobenzene	U	1.28	ug/kg	0.385	1.28
106-46-7	1,4-Dichlorobenzene	U	1.28	ug/kg	0.385	1.28
104-51-8	n-Butylbenzene	U	1.28	ug/kg	0.385	1.28
96-12-8	1,2-Dibromo-3-chloropropane	U	1.28	ug/kg	0.385	1.28
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.41	ug/kg	2.05	6.41
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.28	ug/kg	0.385	1.28
95-50-1	1,2-Dichlorobenzene	U	1.28	ug/kg	0.385	1.28

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	unknown	4.36	36.6	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434003	Date Received: 02/06/2010 09:15	%Moisture: 14.7
Client ID: RE15-10-8356	Client: LANL010	Project: LANL01004
Batch ID: 952586	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/12/2010 22:41	Inst: VOA2.I	Dilution: 1
Prep Date: 02/12/2010 11:06	Analyst: CDS1	Purge Vol: 5 mL
Data File: 021210V2.b\2Y534.D	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.17	ug/kg	0.398	1.17
74-87-3	Chloromethane	U	1.17	ug/kg	0.352	1.17
75-01-4	Vinyl chloride	U	1.17	ug/kg	0.352	1.17
74-83-9	Bromomethane	U	1.17	ug/kg	0.352	1.17
75-00-3	Chloroethane	U	1.17	ug/kg	0.352	1.17
75-69-4	Trichlorofluoromethane	U	1.17	ug/kg	0.352	1.17
67-64-1	Acetone		7.71	ug/kg	1.95	5.86
75-35-4	1,1-Dichloroethylene	U	1.17	ug/kg	0.352	1.17
74-88-4	Iodomethane	U	5.86	ug/kg	1.88	5.86
75-09-2	Methylene chloride	U	5.86	ug/kg	2.34	5.86
75-15-0	Carbon disulfide	U	5.86	ug/kg	1.46	5.86
156-60-5	trans-1,2-Dichloroethylene	U	1.17	ug/kg	0.352	1.17
75-34-3	1,1-Dichloroethane	U	1.17	ug/kg	0.352	1.17
78-93-3	2-Butanone	U	5.86	ug/kg	1.76	5.86
156-59-2	cis-1,2-Dichloroethylene	U	1.17	ug/kg	0.352	1.17
594-20-7	2,2-Dichloropropane	U	1.17	ug/kg	0.352	1.17
67-66-3	Chloroform	U	1.17	ug/kg	0.352	1.17
74-97-5	Bromochloromethane	U	1.17	ug/kg	0.387	1.17
71-55-6	1,1,1-Trichloroethane	U	1.17	ug/kg	0.352	1.17
563-58-6	1,1-Dichloropropene	U	1.17	ug/kg	0.352	1.17
56-23-5	Carbon tetrachloride	U	1.17	ug/kg	0.352	1.17
107-06-2	1,2-Dichloroethane	U	1.17	ug/kg	0.352	1.17
71-43-2	Benzene	U	1.17	ug/kg	0.352	1.17
79-01-6	Trichloroethylene	U	1.17	ug/kg	0.387	1.17
78-87-5	1,2-Dichloropropane	U	1.17	ug/kg	0.352	1.17
75-27-4	Bromodichloromethane	U	1.17	ug/kg	0.352	1.17
74-95-3	Dibromomethane	U	1.17	ug/kg	0.352	1.17
108-10-1	4-Methyl-2-pentanone	U	5.86	ug/kg	1.46	5.86
10061-01-5	cis-1,3-Dichloropropylene	U	1.17	ug/kg	0.352	1.17
108-88-3	Toluene		3.83	ug/kg	0.352	1.17
10061-02-6	trans-1,3-Dichloropropylene	U	1.17	ug/kg	0.352	1.17
79-00-5	1,1,2-Trichloroethane	U	1.17	ug/kg	0.352	1.17
591-78-6	2-Hexanone	U	5.86	ug/kg	1.76	5.86
142-28-9	1,3-Dichloropropane	U	1.17	ug/kg	0.352	1.17
127-18-4	Tetrachloroethylene	U	1.17	ug/kg	0.352	1.17
124-48-1	Dibromochloromethane	U	1.17	ug/kg	0.352	1.17
106-93-4	1,2-Dibromoethane	U	1.17	ug/kg	0.352	1.17
108-90-7	Chlorobenzene	U	1.17	ug/kg	0.352	1.17

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434003	Date Received: 02/06/2010 09:15	%Moisture: 14.7
Client ID: RE15-10-8356	Client: LANL010	Project: LANL01004
Batch ID: 952586	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/12/2010 22:41	Inst: VOA2.I	Dilution: 1
Prep Date: 02/12/2010 11:06	Analyst: CDS1	Purge Vol: 5 mL
Data File: 021210V2.b\2Y534.D	Allquot: 5 g	Final Volume: 5 mL
	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.17	ug/kg	0.352	1.17
179601-23-1	m,p-Xylenes	J	0.422	ug/kg	0.352	2.34
95-47-6	o-Xylene	U	1.17	ug/kg	0.352	1.17
100-42-5	Styrene	U	1.17	ug/kg	0.352	1.17
75-25-2	Bromoform	U	1.17	ug/kg	0.352	1.17
79-34-5	1,1,2,2-Tetrachloroethane	U	1.17	ug/kg	0.352	1.17
96-18-4	1,2,3-Trichloropropane	U	1.17	ug/kg	0.352	1.17
108-86-1	Bromobenzene	U	1.17	ug/kg	0.352	1.17
103-65-1	n-Propylbenzene	U	1.17	ug/kg	0.352	1.17
95-49-8	2-Chlorotoluene	U	1.17	ug/kg	0.352	1.17
98-82-8	Isopropylbenzene	U	1.17	ug/kg	0.352	1.17
108-67-8	1,3,5-Trimethylbenzene	U	1.17	ug/kg	0.352	1.17
106-43-4	4-Chlorotoluene	U	1.17	ug/kg	0.352	1.17
98-06-6	tert-Butylbenzene	U	1.17	ug/kg	0.352	1.17
95-63-6	1,2,4-Trimethylbenzene	U	1.17	ug/kg	0.352	1.17
135-98-8	sec-Butylbenzene	U	1.17	ug/kg	0.352	1.17
99-87-6	4-Isopropyltoluene		2.95	ug/kg	0.352	1.17
541-73-1	1,3-Dichlorobenzene	U	1.17	ug/kg	0.352	1.17
106-46-7	1,4-Dichlorobenzene	U	1.17	ug/kg	0.352	1.17
104-51-8	n-Butylbenzene	U	1.17	ug/kg	0.352	1.17
96-12-8	1,2-Dibromo-3-chloropropane	U	1.17	ug/kg	0.352	1.17
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.86	ug/kg	1.88	5.86
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.17	ug/kg	0.352	1.17
95-50-1	1,2-Dichlorobenzene	U	1.17	ug/kg	0.352	1.17

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	47.9	ug/kg	0	J
	unknown hydrocarbon	17.06	83.2	ug/kg	0	J
	unknown hydrocarbon	17.38	6.01	ug/kg	0	J
	unknown aromatic	17.7	11.9	ug/kg	0	J
	unknown hydrocarbon	17.79	19.1	ug/kg	0	J
	unknown hydrocarbon	18.11	25.8	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434004	Date Received: 02/06/2010 09:15	%Moisture: 13
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8353	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/12/2010 23:10	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:07	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y535.D	Column: DB-624	

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.15	ug/kg	0.391	1.15
74-87-3	Chloromethane	U	1.15	ug/kg	0.345	1.15
75-01-4	Vinyl chloride	U	1.15	ug/kg	0.345	1.15
74-83-9	Bromomethane	U	1.15	ug/kg	0.345	1.15
75-00-3	Chloroethane	U	1.15	ug/kg	0.345	1.15
75-69-4	Trichlorofluoromethane	U	1.15	ug/kg	0.345	1.15
67-64-1	Acetone	U	5.75	ug/kg	1.91	5.75
75-35-4	1,1-Dichloroethylene	U	1.15	ug/kg	0.345	1.15
74-88-4	Iodomethane	U	5.75	ug/kg	1.84	5.75
75-09-2	Methylene chloride	U	5.75	ug/kg	2.30	5.75
75-15-0	Carbon disulfide	U	5.75	ug/kg	1.44	5.75
156-60-5	trans-1,2-Dichloroethylene	U	1.15	ug/kg	0.345	1.15
75-34-3	1,1-Dichloroethane	U	1.15	ug/kg	0.345	1.15
78-93-3	2-Butanone	U	5.75	ug/kg	1.72	5.75
156-59-2	cis-1,2-Dichloroethylene	U	1.15	ug/kg	0.345	1.15
594-20-7	2,2-Dichloropropane	U	1.15	ug/kg	0.345	1.15
67-66-3	Chloroform	U	1.15	ug/kg	0.345	1.15
74-97-5	Bromochloromethane	U	1.15	ug/kg	0.379	1.15
71-55-6	1,1,1-Trichloroethane	U	1.15	ug/kg	0.345	1.15
563-58-6	1,1-Dichloropropene	U	1.15	ug/kg	0.345	1.15
56-23-5	Carbon tetrachloride	U	1.15	ug/kg	0.345	1.15
107-06-2	1,2-Dichloroethane	U	1.15	ug/kg	0.345	1.15
71-43-2	Benzene	U	1.15	ug/kg	0.345	1.15
79-01-6	Trichloroethylene	U	1.15	ug/kg	0.379	1.15
78-87-5	1,2-Dichloropropane	U	1.15	ug/kg	0.345	1.15
75-27-4	Bromodichloromethane	U	1.15	ug/kg	0.345	1.15
74-95-3	Dibromomethane	U	1.15	ug/kg	0.345	1.15
108-10-1	4-Methyl-2-pentanone	U	5.75	ug/kg	1.44	5.75
10061-01-5	cis-1,3-Dichloropropylene	U	1.15	ug/kg	0.345	1.15
108-88-3	Toluene	U	1.15	ug/kg	0.345	1.15
10061-02-6	trans-1,3-Dichloropropylene	U	1.15	ug/kg	0.345	1.15
79-00-5	1,1,2-Trichloroethane	U	1.15	ug/kg	0.345	1.15
591-78-6	2-Hexanone	U	5.75	ug/kg	1.72	5.75
142-28-9	1,3-Dichloropropane	U	1.15	ug/kg	0.345	1.15
127-18-4	Tetrachloroethylene	U	1.15	ug/kg	0.345	1.15
124-48-1	Dibromochloromethane	U	1.15	ug/kg	0.345	1.15
106-93-4	1,2-Dibromoethane	U	1.15	ug/kg	0.345	1.15
108-90-7	Chlorobenzene	U	1.15	ug/kg	0.345	1.15

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434004	Date Received: 02/06/2010 09:15	%Moisture: 13
Client ID: RE15-10-8353	Client: LANL010	Project: LANL01004
Batch ID: 952586	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/12/2010 23:10	Inst: VOA2.I	Dilution: 1
Prep Date: 02/12/2010 11:07	Analyst: CDS1	Purge Vol: 5 mL
Data File: 021210V2.b\2Y535.D	Allquot: 5 g	Final Volume: 5 mL
	Column: DB-624	

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.15	ug/kg	0.345	1.15
179601-23-1	m,p-Xylenes	U	2.30	ug/kg	0.345	2.30
95-47-6	o-Xylene	U	1.15	ug/kg	0.345	1.15
100-42-5	Styrene	U	1.15	ug/kg	0.345	1.15
75-25-2	Bromoform	U	1.15	ug/kg	0.345	1.15
79-34-5	1,1,2,2-Tetrachloroethane	U	1.15	ug/kg	0.345	1.15
96-18-4	1,2,3-Trichloropropane	U	1.15	ug/kg	0.345	1.15
108-86-1	Bromobenzene	U	1.15	ug/kg	0.345	1.15
103-65-1	n-Propylbenzene	U	1.15	ug/kg	0.345	1.15
95-49-8	2-Chlorotoluene	U	1.15	ug/kg	0.345	1.15
98-82-8	Isopropylbenzene	U	1.15	ug/kg	0.345	1.15
108-67-8	1,3,5-Trimethylbenzene	U	1.15	ug/kg	0.345	1.15
106-43-4	4-Chlorotoluene	U	1.15	ug/kg	0.345	1.15
98-06-6	tert-Butylbenzene	U	1.15	ug/kg	0.345	1.15
95-63-6	1,2,4-Trimethylbenzene	U	1.15	ug/kg	0.345	1.15
135-98-8	sec-Butylbenzene	U	1.15	ug/kg	0.345	1.15
99-87-6	4-Isopropyltoluene	U	1.15	ug/kg	0.345	1.15
541-73-1	1,3-Dichlorobenzene	U	1.15	ug/kg	0.345	1.15
106-46-7	1,4-Dichlorobenzene	U	1.15	ug/kg	0.345	1.15
104-51-8	n-Butylbenzene	U	1.15	ug/kg	0.345	1.15
96-12-8	1,2-Dibromo-3-chloropropane	U	1.15	ug/kg	0.345	1.15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.75	ug/kg	1.84	5.75
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.15	ug/kg	0.345	1.15
95-50-1	1,2-Dichlorobenzene	U	1.15	ug/kg	0.345	1.15

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	30.5	ug/kg	0	J
	unknown siloxane	19.15	14.7	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434005	Date Received: 02/06/2010 09:15	%Moisture: 23
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8352	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/12/2010 23:39	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:08	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y536.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.30	ug/kg	0.442	1.30
74-87-3	Chloromethane	U	1.30	ug/kg	0.390	1.30
75-01-4	Vinyl chloride	U	1.30	ug/kg	0.390	1.30
74-83-9	Bromomethane	U	1.30	ug/kg	0.390	1.30
75-00-3	Chloroethane	U	1.30	ug/kg	0.390	1.30
75-69-4	Trichlorofluoromethane	U	1.30	ug/kg	0.390	1.30
67-64-1	Acetone	U	6.50	ug/kg	2.16	6.50
75-35-4	1,1-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
74-88-4	Iodomethane	U	6.50	ug/kg	2.08	6.50
75-09-2	Methylene chloride	U	6.50	ug/kg	2.60	6.50
75-15-0	Carbon disulfide	U	6.50	ug/kg	1.62	6.50
156-60-5	trans-1,2-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
75-34-3	1,1-Dichloroethane	U	1.30	ug/kg	0.390	1.30
78-93-3	2-Butanone	U	6.50	ug/kg	1.95	6.50
156-59-2	cis-1,2-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
594-20-7	2,2-Dichloropropane	U	1.30	ug/kg	0.390	1.30
67-66-3	Chloroform	U	1.30	ug/kg	0.390	1.30
74-97-5	Bromochloromethane	U	1.30	ug/kg	0.429	1.30
71-55-6	1,1,1-Trichloroethane	U	1.30	ug/kg	0.390	1.30
563-58-6	1,1-Dichloropropene	U	1.30	ug/kg	0.390	1.30
56-23-5	Carbon tetrachloride	U	1.30	ug/kg	0.390	1.30
107-06-2	1,2-Dichloroethane	U	1.30	ug/kg	0.390	1.30
71-43-2	Benzene	U	1.30	ug/kg	0.390	1.30
79-01-6	Trichloroethylene	U	1.30	ug/kg	0.429	1.30
78-87-5	1,2-Dichloropropane	U	1.30	ug/kg	0.390	1.30
75-27-4	Bromodichloromethane	U	1.30	ug/kg	0.390	1.30
74-95-3	Dibromomethane	U	1.30	ug/kg	0.390	1.30
108-10-1	4-Methyl-2-pentanone	U	6.50	ug/kg	1.62	6.50
10061-01-5	cis-1,3-Dichloropropylene	U	1.30	ug/kg	0.390	1.30
108-88-3	Toluene	U	1.30	ug/kg	0.390	1.30
10061-02-6	trans-1,3-Dichloropropylene	U	1.30	ug/kg	0.390	1.30
79-00-5	1,1,2-Trichloroethane	U	1.30	ug/kg	0.390	1.30
591-78-6	2-Hexanone	U	6.50	ug/kg	1.95	6.50
142-28-9	1,3-Dichloropropane	U	1.30	ug/kg	0.390	1.30
127-18-4	Tetrachloroethylene	U	1.30	ug/kg	0.390	1.30
124-48-1	Dibromochloromethane	U	1.30	ug/kg	0.390	1.30
106-93-4	1,2-Dibromoethane	U	1.30	ug/kg	0.390	1.30
108-90-7	Chlorobenzene	U	1.30	ug/kg	0.390	1.30

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434005	Date Received: 02/06/2010 09:15	%Moisture: 23
Client ID: RE15-10-8352	Client: LANL010	Project: LANL01004
Batch ID: 952586	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/12/2010 23:39	Inst: VOA2.1	Dilution: 1
Prep Date: 02/12/2010 11:08	Analyst: CDS1	Purge Vol: 5 mL
Data File: 021210V2.b\2Y536.D	Allquot: 5 g	Final Volume: 5 mL
	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.30	ug/kg	0.390	1.30
179601-23-1	m,p-Xylenes	U	2.60	ug/kg	0.390	2.60
95-47-6	o-Xylene	U	1.30	ug/kg	0.390	1.30
100-42-5	Styrene	U	1.30	ug/kg	0.390	1.30
75-25-2	Bromoform	U	1.30	ug/kg	0.390	1.30
79-34-5	1,1,2,2-Tetrachloroethane	U	1.30	ug/kg	0.390	1.30
96-18-4	1,2,3-Trichloropropane	U	1.30	ug/kg	0.390	1.30
108-86-1	Bromobenzene	U	1.30	ug/kg	0.390	1.30
103-65-1	n-Propylbenzene	U	1.30	ug/kg	0.390	1.30
95-49-8	2-Chlorotoluene	U	1.30	ug/kg	0.390	1.30
98-82-8	Isopropylbenzene	U	1.30	ug/kg	0.390	1.30
108-67-8	1,3,5-Trimethylbenzene	U	1.30	ug/kg	0.390	1.30
106-43-4	4-Chlorotoluene	U	1.30	ug/kg	0.390	1.30
98-06-6	tert-Butylbenzene	U	1.30	ug/kg	0.390	1.30
95-63-6	1,2,4-Trimethylbenzene	U	1.30	ug/kg	0.390	1.30
135-98-8	sec-Butylbenzene	U	1.30	ug/kg	0.390	1.30
99-87-6	4-Isopropyltoluene	U	1.30	ug/kg	0.390	1.30
541-73-1	1,3-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30
106-46-7	1,4-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30
104-51-8	n-Butylbenzene	U	1.30	ug/kg	0.390	1.30
96-12-8	1,2-Dibromo-3-chloropropane	U	1.30	ug/kg	0.390	1.30
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.50	ug/kg	2.08	6.50
630-20-6	Trichlorotrifluoroethane					
	1,1,1,2-Tetrachloroethane	U	1.30	ug/kg	0.390	1.30
95-50-1	1,2-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.35	24	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434006	Date Received: 02/06/2010 09:15	%Moisture: 12.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8355	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/13/2010 00:08	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:09	Allquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y537.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.15	ug/kg	0.389	1.15
74-87-3	Chloromethane	U	1.15	ug/kg	0.344	1.15
75-01-4	Vinyl chloride	U	1.15	ug/kg	0.344	1.15
74-83-9	Bromomethane	U	1.15	ug/kg	0.344	1.15
75-00-3	Chloroethane	U	1.15	ug/kg	0.344	1.15
75-69-4	Trichlorofluoromethane	U	1.15	ug/kg	0.344	1.15
67-64-1	Acetone	U	5.73	ug/kg	1.90	5.73
75-35-4	1,1-Dichloroethylene	U	1.15	ug/kg	0.344	1.15
74-88-4	Iodomethane	U	5.73	ug/kg	1.83	5.73
75-09-2	Methylene chloride	U	5.73	ug/kg	2.29	5.73
75-15-0	Carbon disulfide	U	5.73	ug/kg	1.43	5.73
156-60-5	trans-1,2-Dichloroethylene	U	1.15	ug/kg	0.344	1.15
75-34-3	1,1-Dichloroethane	U	1.15	ug/kg	0.344	1.15
78-93-3	2-Butanone	U	5.73	ug/kg	1.72	5.73
156-59-2	cis-1,2-Dichloroethylene	U	1.15	ug/kg	0.344	1.15
594-20-7	2,2-Dichloropropane	U	1.15	ug/kg	0.344	1.15
67-66-3	Chloroform	U	1.15	ug/kg	0.344	1.15
74-97-5	Bromochloromethane	U	1.15	ug/kg	0.378	1.15
71-55-6	1,1,1-Trichloroethane	U	1.15	ug/kg	0.344	1.15
563-58-6	1,1-Dichloropropene	U	1.15	ug/kg	0.344	1.15
56-23-5	Carbon tetrachloride	U	1.15	ug/kg	0.344	1.15
107-06-2	1,2-Dichloroethane	U	1.15	ug/kg	0.344	1.15
71-43-2	Benzene	U	1.15	ug/kg	0.344	1.15
79-01-6	Trichloroethylene	U	1.15	ug/kg	0.378	1.15
78-87-5	1,2-Dichloropropane	U	1.15	ug/kg	0.344	1.15
75-27-4	Bromodichloromethane	U	1.15	ug/kg	0.344	1.15
74-95-3	Dibromomethane	U	1.15	ug/kg	0.344	1.15
108-10-1	4-Methyl-2-pentanone	U	5.73	ug/kg	1.43	5.73
10061-01-5	cis-1,3-Dichloropropylene	U	1.15	ug/kg	0.344	1.15
108-88-3	Toluene	U	1.15	ug/kg	0.344	1.15
10061-02-6	trans-1,3-Dichloropropylene	U	1.15	ug/kg	0.344	1.15
79-00-5	1,1,2-Trichloroethane	U	1.15	ug/kg	0.344	1.15
591-78-6	2-Hexanone	U	5.73	ug/kg	1.72	5.73
142-28-9	1,3-Dichloropropane	U	1.15	ug/kg	0.344	1.15
127-18-4	Tetrachloroethylene	U	1.15	ug/kg	0.344	1.15
124-48-1	Dibromochloromethane	U	1.15	ug/kg	0.344	1.15
106-93-4	1,2-Dibromoethane	U	1.15	ug/kg	0.344	1.15
108-90-7	Chlorobenzene	U	1.15	ug/kg	0.344	1.15

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434006	Date Received: 02/06/2010 09:15	%Moisture: 12.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8355	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/13/2010 00:08	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:09	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y537.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.15	ug/kg	0.344	1.15
179601-23-1	m,p-Xylenes	U	2.29	ug/kg	0.344	2.29
95-47-6	o-Xylene	U	1.15	ug/kg	0.344	1.15
100-42-5	Styrene	U	1.15	ug/kg	0.344	1.15
75-25-2	Bromoform	U	1.15	ug/kg	0.344	1.15
79-34-5	1,1,2,2-Tetrachloroethane	U	1.15	ug/kg	0.344	1.15
96-18-4	1,2,3-Trichloropropane	U	1.15	ug/kg	0.344	1.15
108-86-1	Bromobenzene	U	1.15	ug/kg	0.344	1.15
103-65-1	n-Propylbenzene	U	1.15	ug/kg	0.344	1.15
95-49-8	2-Chlorotoluene	U	1.15	ug/kg	0.344	1.15
98-82-8	Isopropylbenzene	U	1.15	ug/kg	0.344	1.15
108-67-8	1,3,5-Trimethylbenzene	U	1.15	ug/kg	0.344	1.15
106-43-4	4-Chlorotoluene	U	1.15	ug/kg	0.344	1.15
98-06-6	tert-Butylbenzene	U	1.15	ug/kg	0.344	1.15
95-63-6	1,2,4-Trimethylbenzene	U	1.15	ug/kg	0.344	1.15
135-98-8	sec-Butylbenzene	U	1.15	ug/kg	0.344	1.15
99-87-6	4-Isopropyltoluene	U	1.15	ug/kg	0.344	1.15
541-73-1	1,3-Dichlorobenzene	U	1.15	ug/kg	0.344	1.15
106-46-7	1,4-Dichlorobenzene	U	1.15	ug/kg	0.344	1.15
104-51-8	n-Butylbenzene	U	1.15	ug/kg	0.344	1.15
96-12-8	1,2-Dibromo-3-chloropropane	U	1.15	ug/kg	0.344	1.15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.73	ug/kg	1.83	5.73
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.15	ug/kg	0.344	1.15
95-50-1	1,2-Dichlorobenzene	U	1.15	ug/kg	0.344	1.15

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.33	28.6	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434007	Date Received: 02/06/2010 09:15	%Moisture: 15.1
Client ID: RE15-10-8351	Client: LANL010	Project: LANL01004
Batch ID: 952586	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/13/2010 00:37	Inst: VOA2.I	Dilution: 1
Prep Date: 02/12/2010 11:10	Analyst: CDS1	Purge Vol: 5 mL
Data File: 021210V2.b\ZY538.D	Allquot: 5 g	Final Volume: 5 mL
	Column: DB-624	

CAS No.	Parmaame	Qualfier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.18	ug/kg	0.401	1.18
74-87-3	Chloromethane	U	1.18	ug/kg	0.353	1.18
75-01-4	Vinyl chloride	U	1.18	ug/kg	0.353	1.18
74-83-9	Bromomethane	U	1.18	ug/kg	0.353	1.18
75-00-3	Chloroethane	U	1.18	ug/kg	0.353	1.18
75-69-4	Trichlorofluoromethane	U	1.18	ug/kg	0.353	1.18
67-64-1	Acetone	U	5.89	ug/kg	1.96	5.89
75-35-4	1,1-Dichloroethylene	U	1.18	ug/kg	0.353	1.18
74-88-4	Iodomethane	U	5.89	ug/kg	1.89	5.89
75-09-2	Methylene chloride	U	5.89	ug/kg	2.36	5.89
75-15-0	Carbon disulfide	U	5.89	ug/kg	1.47	5.89
156-60-5	trans-1,2-Dichloroethylene	U	1.18	ug/kg	0.353	1.18
75-34-3	1,1-Dichloroethane	U	1.18	ug/kg	0.353	1.18
78-93-3	2-Butanone	U	5.89	ug/kg	1.77	5.89
156-59-2	cis-1,2-Dichloroethylene	U	1.18	ug/kg	0.353	1.18
594-20-7	2,2-Dichloropropane	U	1.18	ug/kg	0.353	1.18
67-66-3	Chloroform	U	1.18	ug/kg	0.353	1.18
74-97-5	Bromochloromethane	U	1.18	ug/kg	0.389	1.18
71-55-6	1,1,1-Trichloroethane	U	1.18	ug/kg	0.353	1.18
563-58-6	1,1-Dichloropropene	U	1.18	ug/kg	0.353	1.18
56-23-5	Carbon tetrachloride	U	1.18	ug/kg	0.353	1.18
107-06-2	1,2-Dichloroethane	U	1.18	ug/kg	0.353	1.18
71-43-2	Benzene	U	1.18	ug/kg	0.353	1.18
79-01-6	Trichloroethylene	U	1.18	ug/kg	0.389	1.18
78-87-5	1,2-Dichloropropane	U	1.18	ug/kg	0.353	1.18
75-27-4	Bromodichloromethane	U	1.18	ug/kg	0.353	1.18
74-95-3	Dibromomethane	U	1.18	ug/kg	0.353	1.18
108-10-1	4-Methyl-2-pentanone	U	5.89	ug/kg	1.47	5.89
10061-01-5	cis-1,3-Dichloropropylene	U	1.18	ug/kg	0.353	1.18
108-88-3	Toluene	U	1.18	ug/kg	0.353	1.18
10061-02-6	trans-1,3-Dichloropropylene	U	1.18	ug/kg	0.353	1.18
79-00-5	1,1,2-Trichloroethane	U	1.18	ug/kg	0.353	1.18
591-78-6	2-Hexanone	U	5.89	ug/kg	1.77	5.89
142-28-9	1,3-Dichloropropane	U	1.18	ug/kg	0.353	1.18
127-18-4	Tetrachloroethylene	U	1.18	ug/kg	0.353	1.18
124-48-1	Dibromochloromethane	U	1.18	ug/kg	0.353	1.18
106-93-4	1,2-Dibromoethane	U	1.18	ug/kg	0.353	1.18
108-90-7	Chlorobenzene	U	1.18	ug/kg	0.353	1.18

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434007	Date Received: 02/06/2010 09:15	%Moisture: 15.1
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8351	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/13/2010 00:37	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:10	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y538.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.18	ug/kg	0.353	1.18
179601-23-1	m,p-Xylenes	U	2.36	ug/kg	0.353	2.36
95-47-6	o-Xylene	U	1.18	ug/kg	0.353	1.18
100-42-5	Styrene	U	1.18	ug/kg	0.353	1.18
75-25-2	Bromoform	U	1.18	ug/kg	0.353	1.18
79-34-5	1,1,2,2-Tetrachloroethane	U	1.18	ug/kg	0.353	1.18
96-18-4	1,2,3-Trichloropropane	U	1.18	ug/kg	0.353	1.18
108-86-1	Bromobenzene	U	1.18	ug/kg	0.353	1.18
103-65-1	n-Propylbenzene	U	1.18	ug/kg	0.353	1.18
95-49-8	2-Chlorotoluene	U	1.18	ug/kg	0.353	1.18
98-82-8	Isopropylbenzene	U	1.18	ug/kg	0.353	1.18
108-67-8	1,3,5-Trimethylbenzene	U	1.18	ug/kg	0.353	1.18
106-43-4	4-Chlorotoluene	U	1.18	ug/kg	0.353	1.18
98-06-6	tert-Butylbenzene	U	1.18	ug/kg	0.353	1.18
95-63-6	1,2,4-Trimethylbenzene	U	1.18	ug/kg	0.353	1.18
135-98-8	sec-Butylbenzene	U	1.18	ug/kg	0.353	1.18
99-87-6	4-Isopropyltoluene	U	1.18	ug/kg	0.353	1.18
541-73-1	1,3-Dichlorobenzene	U	1.18	ug/kg	0.353	1.18
106-46-7	1,4-Dichlorobenzene	U	1.18	ug/kg	0.353	1.18
104-51-8	n-Butylbenzene	U	1.18	ug/kg	0.353	1.18
96-12-8	1,2-Dibromo-3-chloropropane	U	1.18	ug/kg	0.353	1.18
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.89	ug/kg	1.89	5.89
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.18	ug/kg	0.353	1.18
95-50-1	1,2-Dichlorobenzene	U	1.18	ug/kg	0.353	1.18

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	23.6	ug/kg	0	J
005131-66-8	2-Propanol, 1-butoxy-	17.33	13.9	ug/kg	86	NJ

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434008	Date Received: 02/06/2010 09:15	%Moisture: 23.1
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8350	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.1	Dilution: 1
Run Date: 02/13/2010 01:06	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:11	Allquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y539.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.30	ug/kg	0.442	1.30
74-87-3	Chloromethane	U	1.30	ug/kg	0.390	1.30
75-01-4	Vinyl chloride	U	1.30	ug/kg	0.390	1.30
74-83-9	Bromomethane	U	1.30	ug/kg	0.390	1.30
75-00-3	Chloroethane	U	1.30	ug/kg	0.390	1.30
75-69-4	Trichlorofluoromethane	U	1.30	ug/kg	0.390	1.30
67-64-1	Acetone	U	6.50	ug/kg	2.16	6.50
75-35-4	1,1-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
74-88-4	Iodomethane	U	6.50	ug/kg	2.08	6.50
75-09-2	Methylene chloride	U	6.50	ug/kg	2.60	6.50
75-15-0	Carbon disulfide	U	6.50	ug/kg	1.63	6.50
156-60-5	trans-1,2-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
75-34-3	1,1-Dichloroethane	U	1.30	ug/kg	0.390	1.30
78-93-3	2-Butanone	U	6.50	ug/kg	1.95	6.50
156-59-2	cis-1,2-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
594-20-7	2,2-Dichloropropane	U	1.30	ug/kg	0.390	1.30
67-66-3	Chloroform	U	1.30	ug/kg	0.390	1.30
74-97-5	Bromochloromethane	U	1.30	ug/kg	0.429	1.30
71-55-6	1,1,1-Trichloroethane	U	1.30	ug/kg	0.390	1.30
563-58-6	1,1-Dichloropropene	U	1.30	ug/kg	0.390	1.30
56-23-5	Carbon tetrachloride	U	1.30	ug/kg	0.390	1.30
107-06-2	1,2-Dichloroethane	U	1.30	ug/kg	0.390	1.30
71-43-2	Benzene	U	1.30	ug/kg	0.390	1.30
79-01-6	Trichloroethylene	U	1.30	ug/kg	0.429	1.30
78-87-5	1,2-Dichloropropane	U	1.30	ug/kg	0.390	1.30
75-27-4	Bromodichloromethane	U	1.30	ug/kg	0.390	1.30
74-95-3	Dibromomethane	U	1.30	ug/kg	0.390	1.30
108-10-1	4-Methyl-2-pentanone	U	6.50	ug/kg	1.63	6.50
10061-01-5	cis-1,3-Dichloropropylene	U	1.30	ug/kg	0.390	1.30
108-88-3	Toluene	U	1.30	ug/kg	0.390	1.30
10061-02-6	trans-1,3-Dichloropropylene	U	1.30	ug/kg	0.390	1.30
79-00-5	1,1,2-Trichloroethane	U	1.30	ug/kg	0.390	1.30
591-78-6	2-Hexanone	U	6.50	ug/kg	1.95	6.50
142-28-9	1,3-Dichloropropane	U	1.30	ug/kg	0.390	1.30
127-18-4	Tetrachloroethylene	U	1.30	ug/kg	0.390	1.30
124-48-1	Dibromochloromethane	U	1.30	ug/kg	0.390	1.30
106-93-4	1,2-Dibromoethane	U	1.30	ug/kg	0.390	1.30
108-90-7	Chlorobenzene	U	1.30	ug/kg	0.390	1.30

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434008	Date Received: 02/06/2010 09:15	%Moisture: 23.1
Client ID: RE15-10-8350	Client: LANL010	Project: LANL01004
Batch ID: 952586	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/13/2010 01:06	Inst: VOA2.I	Dilution: 1
Prep Date: 02/12/2010 11:11	Analyst: CDS1	Purge Vol: 5 mL
Data File: 021210V2.b\2Y539.D	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	

CAS No.	Parmaame	Qualfler	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.30	ug/kg	0.390	1.30
179601-23-1	m,p-Xylenes	U	2.60	ug/kg	0.390	2.60
95-47-6	o-Xylene	U	1.30	ug/kg	0.390	1.30
100-42-5	Styrene	U	1.30	ug/kg	0.390	1.30
75-25-2	Bromoform	U	1.30	ug/kg	0.390	1.30
79-34-5	1,1,2,2-Tetrachloroethane	U	1.30	ug/kg	0.390	1.30
96-18-4	1,2,3-Trichloropropane	U	1.30	ug/kg	0.390	1.30
108-86-1	Bromobenzene	U	1.30	ug/kg	0.390	1.30
103-65-1	n-Propylbenzene	U	1.30	ug/kg	0.390	1.30
95-49-8	2-Chlorotoluene	U	1.30	ug/kg	0.390	1.30
98-82-8	Isopropylbenzene	U	1.30	ug/kg	0.390	1.30
108-67-8	1,3,5-Trimethylbenzene	U	1.30	ug/kg	0.390	1.30
106-43-4	4-Chlorotoluene	U	1.30	ug/kg	0.390	1.30
98-06-6	tert-Butylbenzene	U	1.30	ug/kg	0.390	1.30
95-63-6	1,2,4-Trimethylbenzene	U	1.30	ug/kg	0.390	1.30
135-98-8	sec-Butylbenzene	U	1.30	ug/kg	0.390	1.30
99-87-6	4-Isopropyltoluene	U	1.30	ug/kg	0.390	1.30
541-73-1	1,3-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30
106-46-7	1,4-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30
104-51-8	n-Butylbenzene	U	1.30	ug/kg	0.390	1.30
96-12-8	1,2-Dibromo-3-chloropropane	U	1.30	ug/kg	0.390	1.30
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.50	ug/kg	2.08	6.50
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.30	ug/kg	0.390	1.30
95-50-1	1,2-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	unknown	4.36	26.5	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434009	Date Received: 02/06/2010 09:15	%Moisture: 6
Client ID: RE15-10-8357	Client: LANL010	Project: LANL01004
Batch ID: 952586	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/13/2010 01:35	Inst: VOA2.I	Dilution: 1
Prep Date: 02/12/2010 11:12	Analyst: CDS1	Purge Vol: 5 mL
Data File: 021210V2.b\2Y540.D	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.06	ug/kg	0.362	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.319	1.06
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.319	1.06
74-83-9	Bromomethane	U	1.06	ug/kg	0.319	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.319	1.06
75-69-4	Trichlorofluoromethane	U	1.06	ug/kg	0.319	1.06
67-64-1	Acetone	U	5.32	ug/kg	1.77	5.32
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.319	1.06
74-88-4	Iodomethane	U	5.32	ug/kg	1.70	5.32
75-09-2	Methylene chloride	U	5.32	ug/kg	2.13	5.32
75-15-0	Carbon disulfide	U	5.32	ug/kg	1.33	5.32
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.319	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.319	1.06
78-93-3	2-Butanone	U	5.32	ug/kg	1.59	5.32
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.319	1.06
594-20-7	2,2-Dichloropropane	U	1.06	ug/kg	0.319	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.319	1.06
74-97-5	Bromochloromethane	U	1.06	ug/kg	0.351	1.06
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.319	1.06
563-58-6	1,1-Dichloropropene	U	1.06	ug/kg	0.319	1.06
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.319	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.319	1.06
71-43-2	Benzene	U	1.06	ug/kg	0.319	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.351	1.06
78-87-5	1,2-Dichloropropane	U	1.06	ug/kg	0.319	1.06
75-27-4	Bromodichloromethane	U	1.06	ug/kg	0.319	1.06
74-95-3	Dibromomethane	U	1.06	ug/kg	0.319	1.06
108-10-1	4-Methyl-2-pentanone	U	5.32	ug/kg	1.33	5.32
10061-01-5	cis-1,3-Dichloropropylene	U	1.06	ug/kg	0.319	1.06
108-88-3	Toluene	U	1.06	ug/kg	0.319	1.06
10061-02-6	trans-1,3-Dichloropropylene	U	1.06	ug/kg	0.319	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.319	1.06
591-78-6	2-Hexanone	U	5.32	ug/kg	1.59	5.32
142-28-9	1,3-Dichloropropane	U	1.06	ug/kg	0.319	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.319	1.06
124-48-1	Dibromochloromethane	U	1.06	ug/kg	0.319	1.06
106-93-4	1,2-Dibromoethane	U	1.06	ug/kg	0.319	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.319	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434009	Date Received: 02/06/2010 09:15	%Moisture: 6
Client ID: RE15-10-8357	Client: LANL010	Project: LANL01004
Batch ID: 952586	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/13/2010 01:35	Inst: VOA2.I	Dilution: 1
Prep Date: 02/12/2010 11:12	Analyst: CDS1	Purge Vol: 5 mL
Data File: 021210V2.b\2Y540.D	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.319	1.06
179601-23-1	m,p-Xylenes	U	2.13	ug/kg	0.319	2.13
95-47-6	o-Xylene	U	1.06	ug/kg	0.319	1.06
100-42-5	Styrene	U	1.06	ug/kg	0.319	1.06
75-25-2	Bromoform	U	1.06	ug/kg	0.319	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.319	1.06
96-18-4	1,2,3-Trichloropropane	U	1.06	ug/kg	0.319	1.06
108-86-1	Bromobenzene	U	1.06	ug/kg	0.319	1.06
103-65-1	n-Propylbenzene	U	1.06	ug/kg	0.319	1.06
95-49-8	2-Chlorotoluene	U	1.06	ug/kg	0.319	1.06
98-82-8	Isopropylbenzene	U	1.06	ug/kg	0.319	1.06
108-67-8	1,3,5-Trimethylbenzene	U	1.06	ug/kg	0.319	1.06
106-43-4	4-Chlorotoluene	U	1.06	ug/kg	0.319	1.06
98-06-6	tert-Butylbenzene	U	1.06	ug/kg	0.319	1.06
95-63-6	1,2,4-Trimethylbenzene	U	1.06	ug/kg	0.319	1.06
135-98-8	sec-Butylbenzene	U	1.06	ug/kg	0.319	1.06
99-87-6	4-Isopropyltoluene	U	1.06	ug/kg	0.319	1.06
541-73-1	1,3-Dichlorobenzene	U	1.06	ug/kg	0.319	1.06
106-46-7	1,4-Dichlorobenzene	U	1.06	ug/kg	0.319	1.06
104-51-8	n-Butylbenzene	U	1.06	ug/kg	0.319	1.06
96-12-8	1,2-Dibromo-3-chloropropane	U	1.06	ug/kg	0.319	1.06
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.32	ug/kg	1.70	5.32
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.06	ug/kg	0.319	1.06
95-50-1	1,2-Dichlorobenzene	U	1.06	ug/kg	0.319	1.06

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	21.2	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434010	Date Received: 02/06/2010 09:15	%Moisture: 22.4
Client ID: RE15-10-8338	Client: LANL010	Project: LANL01004
Batch ID: 952586	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/15/2010 11:00	Inst: VOA2.I	Dilution: 1
Prep Date: 02/15/2010 08:03	Analyst: CDS1	Purge Vol: 5 mL
Data File: 021510V2.b\2Z110.D	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.29	ug/kg	0.438	1.29
74-87-3	Chloromethane	U	1.29	ug/kg	0.386	1.29
75-01-4	Vinyl chloride	U	1.29	ug/kg	0.386	1.29
74-83-9	Bromomethane	U	1.29	ug/kg	0.386	1.29 UJ,V7c
75-00-3	Chloroethane	U	1.29	ug/kg	0.386	1.29
75-69-4	Trichlorofluoromethane	U	1.29	ug/kg	0.386	1.29
67-64-1	Acetone	U	6.44	ug/kg	2.14	6.44
75-35-4	1,1-Dichloroethylene	U	1.29	ug/kg	0.386	1.29
74-88-4	Iodomethane	U	6.44	ug/kg	2.06	6.44
75-09-2	Methylene chloride	U	6.44	ug/kg	2.58	6.44
75-15-0	Carbon disulfide	U	6.44	ug/kg	1.61	6.44
156-60-5	trans-1,2-Dichloroethylene	U	1.29	ug/kg	0.386	1.29
75-34-3	1,1-Dichloroethane	U	1.29	ug/kg	0.386	1.29
78-93-3	2-Butanone	U	6.44	ug/kg	1.93	6.44
156-59-2	cis-1,2-Dichloroethylene	U	1.29	ug/kg	0.386	1.29
594-20-7	2,2-Dichloropropane	U	1.29	ug/kg	0.386	1.29
67-66-3	Chloroform	U	1.29	ug/kg	0.386	1.29
74-97-5	Bromochloromethane	U	1.29	ug/kg	0.425	1.29
71-55-6	1,1,1-Trichloroethane	U	1.29	ug/kg	0.386	1.29
563-58-6	1,1-Dichloropropene	U	1.29	ug/kg	0.386	1.29
56-23-5	Carbon tetrachloride	U	1.29	ug/kg	0.386	1.29
107-06-2	1,2-Dichloroethane	U	1.29	ug/kg	0.386	1.29
71-43-2	Benzene	U	1.29	ug/kg	0.386	1.29
79-01-6	Trichloroethylene	U	1.29	ug/kg	0.425	1.29
78-87-5	1,2-Dichloropropane	U	1.29	ug/kg	0.386	1.29
75-27-4	Bromodichloromethane	U	1.29	ug/kg	0.386	1.29
74-95-3	Dibromomethane	U	1.29	ug/kg	0.386	1.29
108-10-1	4-Methyl-2-pentanone	U	6.44	ug/kg	1.61	6.44
10061-01-5	cis-1,3-Dichloropropylene	U	1.29	ug/kg	0.386	1.29
108-88-3	Toluene	U	1.29	ug/kg	0.386	1.29
10061-02-6	trans-1,3-Dichloropropylene	U	1.29	ug/kg	0.386	1.29
79-00-5	1,1,2-Trichloroethane	U	1.29	ug/kg	0.386	1.29
591-78-6	2-Hexanone	U	6.44	ug/kg	1.93	6.44 UJ,V7c
142-28-9	1,3-Dichloropropane	U	1.29	ug/kg	0.386	1.29
127-18-4	Tetrachloroethylene	U	1.29	ug/kg	0.386	1.29
124-48-1	Dibromochloromethane	U	1.29	ug/kg	0.386	1.29
106-93-4	1,2-Dibromoethane	U	1.29	ug/kg	0.386	1.29
108-90-7	Chlorobenzene	U	1.29	ug/kg	0.386	1.29

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434010

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 22.4
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

Client ID: RE15-10-8338
 Batch ID: 952586
 Run Date: 02/15/2010 11:00
 Prep Date: 02/15/2010 08:03
 Data File: 021510V2.b\2Z110.D

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.29	ug/kg	0.386	1.29
179601-23-1	m,p-Xylenes	U	2.58	ug/kg	0.386	2.58
95-47-6	o-Xylene	U	1.29	ug/kg	0.386	1.29
100-42-5	Styrene	U	1.29	ug/kg	0.386	1.29
75-25-2	Bromoform	U	1.29	ug/kg	0.386	1.29
79-34-5	1,1,2,2-Tetrachloroethane	U	1.29	ug/kg	0.386	1.29
96-18-4	1,2,3-Trichloropropane	U	1.29	ug/kg	0.386	1.29
108-86-1	Bromobenzene	U	1.29	ug/kg	0.386	1.29
103-65-1	n-Propylbenzene	U	1.29	ug/kg	0.386	1.29
95-49-8	2-Chlorotoluene	U	1.29	ug/kg	0.386	1.29
98-82-8	Isopropylbenzene	U	1.29	ug/kg	0.386	1.29
108-67-8	1,3,5-Trimethylbenzene	U	1.29	ug/kg	0.386	1.29
106-43-4	4-Chlorotoluene	U	1.29	ug/kg	0.386	1.29
98-06-6	tert-Butylbenzene	U	1.29	ug/kg	0.386	1.29
95-63-6	1,2,4-Trimethylbenzene	U	1.29	ug/kg	0.386	1.29
135-98-8	sec-Butylbenzene	U	1.29	ug/kg	0.386	1.29
99-87-6	4-Isopropyltoluene	J	0.477	ug/kg	0.386	1.29
541-73-1	1,3-Dichlorobenzene	U	1.29	ug/kg	0.386	1.29
106-46-7	1,4-Dichlorobenzene	U	1.29	ug/kg	0.386	1.29
104-51-8	n-Butylbenzene	U	1.29	ug/kg	0.386	1.29 UJ,V7c
96-12-8	1,2-Dibromo-3-chloropropane	U	1.29	ug/kg	0.386	1.29
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.44	ug/kg	2.06	6.44
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.29	ug/kg	0.386	1.29
95-50-1	1,2-Dichlorobenzene	U	1.29	ug/kg	0.386	1.29

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	unknown	4.32	30.5	ug/kg	0	J
	unknown hydrocarbon	17.06	13.7	ug/kg	0	J
	unknown hydrocarbon	18.11	15.6	ug/kg	0	J
	unknown siloxane	21.24	21.3	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434011	Date Received: 02/06/2010 09:15	%Moisture: 17.6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8336	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/15/2010 13:26	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/15/2010 12:00	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021510V2.b\2Z115.D	Column: DB-624	

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.21	ug/kg	0.412	1.21
74-87-3	Chloromethane	U	1.21	ug/kg	0.364	1.21
75-01-4	Vinyl chloride	U	1.21	ug/kg	0.364	1.21
74-83-9	Bromomethane	U	1.21	ug/kg	0.364	1.21 UJ,V7c
75-00-3	Chloroethane	U	1.21	ug/kg	0.364	1.21
75-69-4	Trichlorofluoromethane	U	1.21	ug/kg	0.364	1.21
67-64-1	Acetone	U	6.06	ug/kg	2.01	6.06
75-35-4	1,1-Dichloroethylene	U	1.21	ug/kg	0.364	1.21
74-88-4	Iodomethane	U	6.06	ug/kg	1.94	6.06
75-09-2	Methylene chloride	U	6.06	ug/kg	2.43	6.06
75-15-0	Carbon disulfide	U	6.06	ug/kg	1.52	6.06
156-60-5	trans-1,2-Dichloroethylene	U	1.21	ug/kg	0.364	1.21
75-34-3	1,1-Dichloroethane	U	1.21	ug/kg	0.364	1.21
78-93-3	2-Butanone	U	6.06	ug/kg	1.82	6.06
156-59-2	cis-1,2-Dichloroethylene	U	1.21	ug/kg	0.364	1.21
594-20-7	2,2-Dichloropropane	U	1.21	ug/kg	0.364	1.21
67-66-3	Chloroform	U	1.21	ug/kg	0.364	1.21
74-97-5	Bromochloromethane	U	1.21	ug/kg	0.400	1.21
71-55-6	1,1,1-Trichloroethane	U	1.21	ug/kg	0.364	1.21
563-58-6	1,1-Dichloropropene	U	1.21	ug/kg	0.364	1.21
56-23-5	Carbon tetrachloride	U	1.21	ug/kg	0.364	1.21
107-06-2	1,2-Dichloroethane	U	1.21	ug/kg	0.364	1.21
71-43-2	Benzene	U	1.21	ug/kg	0.364	1.21
79-01-6	Trichloroethylene	U	1.21	ug/kg	0.400	1.21
78-87-5	1,2-Dichloropropane	U	1.21	ug/kg	0.364	1.21
75-27-4	Bromodichloromethane	U	1.21	ug/kg	0.364	1.21
74-95-3	Dibromomethane	U	1.21	ug/kg	0.364	1.21
108-10-1	4-Methyl-2-pentanone	U	6.06	ug/kg	1.52	6.06
10061-01-5	cis-1,3-Dichloropropylene	U	1.21	ug/kg	0.364	1.21
108-88-3	Toluene	U	1.21	ug/kg	0.364	1.21
10061-02-6	trans-1,3-Dichloropropylene	U	1.21	ug/kg	0.364	1.21
79-00-5	1,1,2-Trichloroethane	U	1.21	ug/kg	0.364	1.21
591-78-6	2-Hexanone	U	6.06	ug/kg	1.82	6.06 UJ,V7c
142-28-9	1,3-Dichloropropane	U	1.21	ug/kg	0.364	1.21
127-18-4	Tetrachloroethylene	U	1.21	ug/kg	0.364	1.21
124-48-1	Dibromochloromethane	U	1.21	ug/kg	0.364	1.21
106-93-4	1,2-Dibromoethane	U	1.21	ug/kg	0.364	1.21
108-90-7	Chlorobenzene	U	1.21	ug/kg	0.364	1.21

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434011	Date Received: 02/06/2010 09:15	%Moisture: 17.6
Client ID: RE15-10-8336	Client: LANL010	Project: LANL01004
Batch ID: 952586	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/15/2010 13:26	Inst: VOA2.I	Dilution: 1
Prep Date: 02/15/2010 12:00	Analyst: CDS1	Purge Vol: 5 mL
Data File: 021510V2.b\2Z115.D	Allquot: 5 g	Final Volume: 5 mL
	Column: DB-624	

CAS No.	Parma name	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.21	ug/kg	0.364	1.21
179601-23-1	m,p-Xylenes	U	2.43	ug/kg	0.364	2.43
95-47-6	o-Xylene	U	1.21	ug/kg	0.364	1.21
100-42-5	Styrene	U	1.21	ug/kg	0.364	1.21
75-25-2	Bromoform	U	1.21	ug/kg	0.364	1.21
79-34-5	1,1,2,2-Tetrachloroethane	U	1.21	ug/kg	0.364	1.21
96-18-4	1,2,3-Trichloropropane	U	1.21	ug/kg	0.364	1.21
108-86-1	Bromobenzene	U	1.21	ug/kg	0.364	1.21
103-65-1	n-Propylbenzene	U	1.21	ug/kg	0.364	1.21
95-49-8	2-Chlorotoluene	U	1.21	ug/kg	0.364	1.21
98-82-8	Isopropylbenzene	U	1.21	ug/kg	0.364	1.21
108-67-8	1,3,5-Trimethylbenzene	U	1.21	ug/kg	0.364	1.21
106-43-4	4-Chlorotoluene	U	1.21	ug/kg	0.364	1.21
98-06-6	tert-Butylbenzene	U	1.21	ug/kg	0.364	1.21
95-63-6	1,2,4-Trimethylbenzene	U	1.21	ug/kg	0.364	1.21
135-98-8	sec-Butylbenzene	U	1.21	ug/kg	0.364	1.21
99-87-6	4-Isopropyltoluene	U	1.21	ug/kg	0.364	1.21
541-73-1	1,3-Dichlorobenzene	U	1.21	ug/kg	0.364	1.21
106-46-7	1,4-Dichlorobenzene	U	1.21	ug/kg	0.364	1.21
104-51-8	n-Butylbenzene	U	1.21	ug/kg	0.364	1.21 UJ,V7c
96-12-8	1,2-Dibromo-3-chloropropane	U	1.21	ug/kg	0.364	1.21
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.06	ug/kg	1.94	6.06
630-20-6	1,1,1,2-Tetrachloroethane	U	1.21	ug/kg	0.364	1.21
95-50-1	1,2-Dichlorobenzene	U	1.21	ug/kg	0.364	1.21

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	unknown	4.36	26.1	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434012	Date Received: 02/06/2010 09:15	%Moisture: 6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8339	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/13/2010 03:02	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:15	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y543.D	Column: DB-624	

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.06	ug/kg	0.362	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.319	1.06
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.319	1.06
74-83-9	Bromomethane	U	1.06	ug/kg	0.319	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.319	1.06
75-69-4	Trichlorofluoromethane	U	1.06	ug/kg	0.319	1.06
67-64-1	Acetone		20.8	ug/kg	1.77	5.32
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.319	1.06
74-88-4	Iodomethane	U	5.32	ug/kg	1.70	5.32
75-09-2	Methylene chloride	U	5.32	ug/kg	2.13	5.32
75-15-0	Carbon disulfide	U	5.32	ug/kg	1.33	5.32
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.319	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.319	1.06
78-93-3	2-Butanone	U	5.32	ug/kg	1.60	5.32
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.319	1.06
594-20-7	2,2-Dichloropropane	U	1.06	ug/kg	0.319	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.319	1.06
74-97-5	Bromochloromethane	U	1.06	ug/kg	0.351	1.06
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.319	1.06
563-58-6	1,1-Dichloropropene	U	1.06	ug/kg	0.319	1.06
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.319	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.319	1.06
71-43-2	Benzene	U	1.06	ug/kg	0.319	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.351	1.06
78-87-5	1,2-Dichloropropane	U	1.06	ug/kg	0.319	1.06
75-27-4	Bromodichloromethane	U	1.06	ug/kg	0.319	1.06
74-95-3	Dibromomethane	U	1.06	ug/kg	0.319	1.06
108-10-1	4-Methyl-2-pentanone	U	5.32	ug/kg	1.33	5.32
10061-01-5	cis-1,3-Dichloropropylene	U	1.06	ug/kg	0.319	1.06
108-88-3	Toluene	J	0.362	ug/kg	0.319	1.06
10061-02-6	trans-1,3-Dichloropropylene	U	1.06	ug/kg	0.319	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.319	1.06
591-78-6	2-Hexanone	U	5.32	ug/kg	1.60	5.32
142-28-9	1,3-Dichloropropane	U	1.06	ug/kg	0.319	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.319	1.06
124-48-1	Dibromochloromethane	U	1.06	ug/kg	0.319	1.06
106-93-4	1,2-Dibromoethane	U	1.06	ug/kg	0.319	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.319	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434012	Date Received: 02/06/2010 09:15	%Moisture: 6
Client ID: RE15-10-8339	Client: LANL010	Project: LANL01004
Batch ID: 952586	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/13/2010 03:02	Inst: VOA2.I	Dilution: 1
Prep Date: 02/12/2010 11:15	Analyst: CDS1	Purge Vol: 5 mL
Data File: 021210V2.b\2Y543.D	Allquot: 5 g	Final Volume: 5 mL
	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.319	1.06
179601-23-1	m,p-Xylenes	U	2.13	ug/kg	0.319	2.13
95-47-6	o-Xylene	U	1.06	ug/kg	0.319	1.06
100-42-5	Styrene	U	1.06	ug/kg	0.319	1.06
75-25-2	Bromoform	U	1.06	ug/kg	0.319	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.319	1.06
96-18-4	1,2,3-Trichloropropane	U	1.06	ug/kg	0.319	1.06
108-86-1	Bromobenzene	U	1.06	ug/kg	0.319	1.06
103-65-1	n-Propylbenzene	U	1.06	ug/kg	0.319	1.06
95-49-8	2-Chlorotoluene	U	1.06	ug/kg	0.319	1.06
98-82-8	Isopropylbenzene	U	1.06	ug/kg	0.319	1.06
108-67-8	1,3,5-Trimethylbenzene	U	1.06	ug/kg	0.319	1.06
106-43-4	4-Chlorotoluene	U	1.06	ug/kg	0.319	1.06
98-06-6	tert-Butylbenzene	U	1.06	ug/kg	0.319	1.06
95-63-6	1,2,4-Trimethylbenzene	U	1.06	ug/kg	0.319	1.06
135-98-8	sec-Butylbenzene	U	1.06	ug/kg	0.319	1.06
99-87-6	4-Isopropyltoluene	J	0.553	ug/kg	0.319	1.06
541-73-1	1,3-Dichlorobenzene	U	1.06	ug/kg	0.319	1.06
106-46-7	1,4-Dichlorobenzene	U	1.06	ug/kg	0.319	1.06
104-51-8	n-Butylbenzene	U	1.06	ug/kg	0.319	1.06
96-12-8	1,2-Dibromo-3-chloropropane	U	1.06	ug/kg	0.319	1.06
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.32	ug/kg	1.70	5.32
630-20-6	1,1,1,2-Tetrachloroethane	U	1.06	ug/kg	0.319	1.06
95-50-1	1,2-Dichlorobenzene	U	1.06	ug/kg	0.319	1.06

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	24.6	ug/kg	0	J
	unknown hydrocarbon	17.06	17.8	ug/kg	0	J
	unknown hydrocarbon	18.11	17.5	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434013

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Allquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 11.4
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

Client ID: RE15-10-8337
 Batch ID: 952586
 Run Date: 02/15/2010 11:59
 Prep Date: 02/15/2010 08:05
 Data File: 021510V2.b\2Z112.D

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.13	ug/kg	0.384	1.13
74-87-3	Chloromethane	U	1.13	ug/kg	0.339	1.13
75-01-4	Vinyl chloride	U	1.13	ug/kg	0.339	1.13
74-83-9	Bromomethane	U	1.13	ug/kg	0.339	1.13 UJ,V7c
75-00-3	Chloroethane	U	1.13	ug/kg	0.339	1.13
75-69-4	Trichlorofluoromethane	U	1.13	ug/kg	0.339	1.13
67-64-1	Acetone	U	5.64	ug/kg	1.87	5.64
75-35-4	1,1-Dichloroethylene	U	1.13	ug/kg	0.339	1.13
74-88-4	Iodomethane	U	5.64	ug/kg	1.81	5.64
75-09-2	Methylene chloride	U	5.64	ug/kg	2.26	5.64
75-15-0	Carbon disulfide	U	5.64	ug/kg	1.41	5.64
156-60-5	trans-1,2-Dichloroethylene	U	1.13	ug/kg	0.339	1.13
75-34-3	1,1-Dichloroethane	U	1.13	ug/kg	0.339	1.13
78-93-3	2-Butanone	U	5.64	ug/kg	1.69	5.64
156-59-2	cis-1,2-Dichloroethylene	U	1.13	ug/kg	0.339	1.13
594-20-7	2,2-Dichloropropane	U	1.13	ug/kg	0.339	1.13
67-66-3	Chloroform	U	1.13	ug/kg	0.339	1.13
74-97-5	Bromochloromethane	U	1.13	ug/kg	0.373	1.13
71-55-6	1,1,1-Trichloroethane	U	1.13	ug/kg	0.339	1.13
563-58-6	1,1-Dichloropropene	U	1.13	ug/kg	0.339	1.13
56-23-5	Carbon tetrachloride	U	1.13	ug/kg	0.339	1.13
107-06-2	1,2-Dichloroethane	U	1.13	ug/kg	0.339	1.13
71-43-2	Benzene	U	1.13	ug/kg	0.339	1.13
79-01-6	Trichloroethylene	U	1.13	ug/kg	0.373	1.13
78-87-5	1,2-Dichloropropane	U	1.13	ug/kg	0.339	1.13
75-27-4	Bromodichloromethane	U	1.13	ug/kg	0.339	1.13
74-95-3	Dibromomethane	U	1.13	ug/kg	0.339	1.13
108-10-1	4-Methyl-2-pentanone	U	5.64	ug/kg	1.41	5.64
10061-01-5	cis-1,3-Dichloropropylene	U	1.13	ug/kg	0.339	1.13
108-88-3	Toluene	U	1.13	ug/kg	0.339	1.13
10061-02-6	trans-1,3-Dichloropropylene	U	1.13	ug/kg	0.339	1.13
79-00-5	1,1,2-Trichloroethane	U	1.13	ug/kg	0.339	1.13
591-78-6	2-Hexanone	U	5.64	ug/kg	1.69	5.64 UJ,V7c
142-28-9	1,3-Dichloropropane	U	1.13	ug/kg	0.339	1.13
127-18-4	Tetrachloroethylene	U	1.13	ug/kg	0.339	1.13
124-48-1	Dibromochloromethane	U	1.13	ug/kg	0.339	1.13
106-93-4	1,2-Dibromoethane	U	1.13	ug/kg	0.339	1.13
108-90-7	Chlorobenzene	U	1.13	ug/kg	0.339	1.13

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434013	Date Received: 02/06/2010 09:15	%Moisture: 11.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8337	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/15/2010 11:59	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/15/2010 08:05	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021510V2.b\2Z112.D	Column: DB-624	

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.13	ug/kg	0.339	1.13
179601-23-1	m,p-Xylenes	U	2.26	ug/kg	0.339	2.26
95-47-6	o-Xylene	U	1.13	ug/kg	0.339	1.13
100-42-5	Styrene	U	1.13	ug/kg	0.339	1.13
75-25-2	Bromoform	U	1.13	ug/kg	0.339	1.13
79-34-5	1,1,2,2-Tetrachloroethane	U	1.13	ug/kg	0.339	1.13
96-18-4	1,2,3-Trichloropropane	U	1.13	ug/kg	0.339	1.13
108-86-1	Bromobenzene	U	1.13	ug/kg	0.339	1.13
103-65-1	n-Propylbenzene	U	1.13	ug/kg	0.339	1.13
95-49-8	2-Chlorotoluene	U	1.13	ug/kg	0.339	1.13
98-82-8	Isopropylbenzene	U	1.13	ug/kg	0.339	1.13
108-67-8	1,3,5-Trimethylbenzene	U	1.13	ug/kg	0.339	1.13
106-43-4	4-Chlorotoluene	U	1.13	ug/kg	0.339	1.13
98-06-6	tert-Butylbenzene	U	1.13	ug/kg	0.339	1.13
95-63-6	1,2,4-Trimethylbenzene	U	1.13	ug/kg	0.339	1.13
135-98-8	sec-Butylbenzene	U	1.13	ug/kg	0.339	1.13
99-87-6	4-Isopropyltoluene	U	1.13	ug/kg	0.339	1.13
541-73-1	1,3-Dichlorobenzene	U	1.13	ug/kg	0.339	1.13
106-46-7	1,4-Dichlorobenzene	U	1.13	ug/kg	0.339	1.13
104-51-8	n-Butylbenzene	U	1.13	ug/kg	0.339	1.13 UJ,V7c
96-12-8	1,2-Dibromo-3-chloropropane	U	1.13	ug/kg	0.339	1.13
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.64	ug/kg	1.81	5.64
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.13	ug/kg	0.339	1.13
95-50-1	1,2-Dichlorobenzene	U	1.13	ug/kg	0.339	1.13

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.33	21.2	ug/kg	0	J
	unknown siloxane	19.16	10.8	ug/kg	0	J

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434014	Date Received: 02/06/2010 09:15	%Moisture: 19.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8375	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/13/2010 04:00	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:17	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y545.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.25	ug/kg	0.424	1.25
74-87-3	Chloromethane	U	1.25	ug/kg	0.374	1.25
75-01-4	Vinyl chloride	U	1.25	ug/kg	0.374	1.25
74-83-9	Bromomethane	U	1.25	ug/kg	0.374	1.25
75-00-3	Chloroethane	U	1.25	ug/kg	0.374	1.25
75-69-4	Trichlorofluoromethane	U	1.25	ug/kg	0.374	1.25
67-64-1	Acetone	U	6.23	ug/kg	2.07	6.23
75-35-4	1,1-Dichloroethylene	U	1.25	ug/kg	0.374	1.25
74-88-4	Iodomethane	U	6.23	ug/kg	1.99	6.23
75-09-2	Methylene chloride	U	6.23	ug/kg	2.49	6.23
75-15-0	Carbon disulfide	U	6.23	ug/kg	1.56	6.23
156-60-5	trans-1,2-Dichloroethylene	U	1.25	ug/kg	0.374	1.25
75-34-3	1,1-Dichloroethane	U	1.25	ug/kg	0.374	1.25
78-93-3	2-Butanone	U	6.23	ug/kg	1.87	6.23
156-59-2	cis-1,2-Dichloroethylene	U	1.25	ug/kg	0.374	1.25
594-20-7	2,2-Dichloropropane	U	1.25	ug/kg	0.374	1.25
67-66-3	Chloroform	U	1.25	ug/kg	0.374	1.25
74-97-5	Bromochloromethane	U	1.25	ug/kg	0.411	1.25
71-55-6	1,1,1-Trichloroethane	U	1.25	ug/kg	0.374	1.25
563-58-6	1,1-Dichloropropene	U	1.25	ug/kg	0.374	1.25
56-23-5	Carbon tetrachloride	U	1.25	ug/kg	0.374	1.25
107-06-2	1,2-Dichloroethane	U	1.25	ug/kg	0.374	1.25
71-43-2	Benzene	U	1.25	ug/kg	0.374	1.25
79-01-6	Trichloroethylene	U	1.25	ug/kg	0.411	1.25
78-87-5	1,2-Dichloropropane	U	1.25	ug/kg	0.374	1.25
75-27-4	Bromodichloromethane	U	1.25	ug/kg	0.374	1.25
74-95-3	Dibromomethane	U	1.25	ug/kg	0.374	1.25
108-10-1	4-Methyl-2-pentanone	U	6.23	ug/kg	1.56	6.23
10061-01-5	cis-1,3-Dichloropropylene	U	1.25	ug/kg	0.374	1.25
108-88-3	Toluene	U	1.25	ug/kg	0.374	1.25
10061-02-6	trans-1,3-Dichloropropylene	U	1.25	ug/kg	0.374	1.25
79-00-5	1,1,2-Trichloroethane	U	1.25	ug/kg	0.374	1.25
591-78-6	2-Hexanone	U	6.23	ug/kg	1.87	6.23
142-28-9	1,3-Dichloropropane	U	1.25	ug/kg	0.374	1.25
127-18-4	Tetrachloroethylene	U	1.25	ug/kg	0.374	1.25
124-48-1	Dibromochloromethane	U	1.25	ug/kg	0.374	1.25
106-93-4	1,2-Dibromoethane	U	1.25	ug/kg	0.374	1.25
108-90-7	Chlorobenzene	U	1.25	ug/kg	0.374	1.25

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434014

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 19.7
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

Client ID: RE15-10-8375
 Batch ID: 952586
 Run Date: 02/13/2010 04:00
 Prep Date: 02/12/2010 11:17
 Data File: 021210V2.b\2Y545.D

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.25	ug/kg	0.374	1.25
179601-23-1	m,p-Xylenes	U	2.49	ug/kg	0.374	2.49
95-47-6	o-Xylene	U	1.25	ug/kg	0.374	1.25
100-42-5	Styrene	U	1.25	ug/kg	0.374	1.25
75-25-2	Bromoform	U	1.25	ug/kg	0.374	1.25
79-34-5	1,1,2,2-Tetrachloroethane	U	1.25	ug/kg	0.374	1.25
96-18-4	1,2,3-Trichloropropane	U	1.25	ug/kg	0.374	1.25
108-86-1	Bromobenzene	U	1.25	ug/kg	0.374	1.25
103-65-1	n-Propylbenzene	U	1.25	ug/kg	0.374	1.25
95-49-8	2-Chlorotoluene	U	1.25	ug/kg	0.374	1.25
98-82-8	Isopropylbenzene	U	1.25	ug/kg	0.374	1.25
108-67-8	1,3,5-Trimethylbenzene	U	1.25	ug/kg	0.374	1.25
106-43-4	4-Chlorotoluene	U	1.25	ug/kg	0.374	1.25
98-06-6	tert-Butylbenzene	U	1.25	ug/kg	0.374	1.25
95-63-6	1,2,4-Trimethylbenzene	U	1.25	ug/kg	0.374	1.25
135-98-8	sec-Butylbenzene	U	1.25	ug/kg	0.374	1.25
99-87-6	4-Isopropyltoluene	U	1.25	ug/kg	0.374	1.25
541-73-1	1,3-Dichlorobenzene	U	1.25	ug/kg	0.374	1.25
106-46-7	1,4-Dichlorobenzene	U	1.25	ug/kg	0.374	1.25
104-51-8	n-Butylbenzene	U	1.25	ug/kg	0.374	1.25
96-12-8	1,2-Dibromo-3-chloropropane	U	1.25	ug/kg	0.374	1.25
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.23	ug/kg	1.99	6.23
630-20-6	1,1,1,2-Tetrachloroethane	U	1.25	ug/kg	0.374	1.25
95-50-1	1,2-Dichlorobenzene	U	1.25	ug/kg	0.374	1.25

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.33	10.7	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434015

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 6.3
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

Client ID: RE15-10-8374
 Batch ID: 952586
 Run Date: 02/15/2010 12:27
 Prep Date: 02/15/2010 08:06
 Data File: 021510V2.b\2Z113.D

CAS No.	Parmaame	Qualifler	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.07	ug/kg	0.363	1.07
74-87-3	Chloromethane	U	1.07	ug/kg	0.320	1.07
75-01-4	Vinyl chloride	U	1.07	ug/kg	0.320	1.07
74-83-9	Bromomethane	U	1.07	ug/kg	0.320	1.07 UJ,V7c
75-00-3	Chloroethane	U	1.07	ug/kg	0.320	1.07
75-69-4	Trichlorofluoromethane	U	1.07	ug/kg	0.320	1.07
67-64-1	Acetone		48.4	ug/kg	1.77	5.34
75-35-4	1,1-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
74-88-4	Iodomethane	U	5.34	ug/kg	1.71	5.34
75-09-2	Methylene chloride	U	5.34	ug/kg	2.13	5.34
75-15-0	Carbon disulfide	U	5.34	ug/kg	1.33	5.34
156-60-5	trans-1,2-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
75-34-3	1,1-Dichloroethane	U	1.07	ug/kg	0.320	1.07
78-93-3	2-Butanone	U	5.34	ug/kg	1.60	5.34
156-59-2	cis-1,2-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
594-20-7	2,2-Dichloropropane	U	1.07	ug/kg	0.320	1.07
67-66-3	Chloroform	U	1.07	ug/kg	0.320	1.07
74-97-5	Bromochloromethane	U	1.07	ug/kg	0.352	1.07
71-55-6	1,1,1-Trichloroethane	U	1.07	ug/kg	0.320	1.07
563-58-6	1,1-Dichloropropene	U	1.07	ug/kg	0.320	1.07
56-23-5	Carbon tetrachloride	U	1.07	ug/kg	0.320	1.07
107-06-2	1,2-Dichloroethane	U	1.07	ug/kg	0.320	1.07
71-43-2	Benzene	U	1.07	ug/kg	0.320	1.07
79-01-6	Trichloroethylene	U	1.07	ug/kg	0.352	1.07
78-87-5	1,2-Dichloropropane	U	1.07	ug/kg	0.320	1.07
75-27-4	Bromodichloromethane	U	1.07	ug/kg	0.320	1.07
74-95-3	Dibromomethane	U	1.07	ug/kg	0.320	1.07
108-10-1	4-Methyl-2-pentanone	U	5.34	ug/kg	1.33	5.34
10061-01-5	cis-1,3-Dichloropropylene	U	1.07	ug/kg	0.320	1.07
108-88-3	Toluene	U	1.07	ug/kg	0.320	1.07
10061-02-6	trans-1,3-Dichloropropylene	U	1.07	ug/kg	0.320	1.07
79-00-5	1,1,2-Trichloroethane	U	1.07	ug/kg	0.320	1.07
591-78-6	2-Hexanone	U	5.34	ug/kg	1.60	5.34 UJ,V7c
142-28-9	1,3-Dichloropropane	U	1.07	ug/kg	0.320	1.07
127-18-4	Tetrachloroethylene	U	1.07	ug/kg	0.320	1.07
124-48-1	Dibromochloromethane	U	1.07	ug/kg	0.320	1.07
106-93-4	1,2-Dibromoethane	U	1.07	ug/kg	0.320	1.07
108-90-7	Chlorobenzene	U	1.07	ug/kg	0.320	1.07

Volatile
Certificate of Analysis
Sample Summary

Page 2 of 2

SDG Number: 10-1620
 Lab Sample ID: 246434015

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 6.3
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

Client ID: RE15-10-8374
 Batch ID: 952586
 Run Date: 02/15/2010 12:27
 Prep Date: 02/15/2010 08:06
 Data File: 021510V2.b\2Z113.D

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.07	ug/kg	0.320	1.07
179601-23-1	m,p-Xylenes	U	2.13	ug/kg	0.320	2.13
95-47-6	o-Xylene	U	1.07	ug/kg	0.320	1.07
100-42-5	Styrene	U	1.07	ug/kg	0.320	1.07
75-25-2	Bromoform	U	1.07	ug/kg	0.320	1.07
79-34-5	1,1,2,2-Tetrachloroethane	U	1.07	ug/kg	0.320	1.07
96-18-4	1,2,3-Trichloropropane	U	1.07	ug/kg	0.320	1.07
108-86-1	Bromobenzene	U	1.07	ug/kg	0.320	1.07
103-65-1	n-Propylbenzene	U	1.07	ug/kg	0.320	1.07
95-49-8	2-Chlorotoluene	U	1.07	ug/kg	0.320	1.07
98-82-8	Isopropylbenzene	U	1.07	ug/kg	0.320	1.07
108-67-8	1,3,5-Trimethylbenzene	U	1.07	ug/kg	0.320	1.07
106-43-4	4-Chlorotoluene	U	1.07	ug/kg	0.320	1.07
98-06-6	tert-Butylbenzene	U	1.07	ug/kg	0.320	1.07
95-63-6	1,2,4-Trimethylbenzene	U	1.07	ug/kg	0.320	1.07
135-98-8	sec-Butylbenzene	U	1.07	ug/kg	0.320	1.07
99-87-6	4-Isopropyltoluene	J	0.459	ug/kg	0.320	1.07
541-73-1	1,3-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07
106-46-7	1,4-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07
104-51-8	n-Butylbenzene	U	1.07	ug/kg	0.320	1.07 UJ,V7c
96-12-8	1,2-Dibromo-3-chloropropane	U	1.07	ug/kg	0.320	1.07
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.34	ug/kg	1.71	5.34
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.07	ug/kg	0.320	1.07
95-50-1	1,2-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.33	33.7	ug/kg	0	J
	unknown hydrocarbon	17.05	14.4	ug/kg	0	J
	unknown hydrocarbon	18.11	11.3	ug/kg	0	J
	unknown siloxane	19.15	13	ug/kg	0	J
	unknown siloxane	21.24	18.2	ug/kg	0	J

DATA VALIDATION COVER SHEET

5115-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1260 VALIDATION DATE: 03/30/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Joanne Compton ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

- | | | | |
|--|--|---|---|
| <input type="checkbox"/> TPH-GRO | <input type="checkbox"/> HIGH EXPLOSIVES | <input type="checkbox"/> DIOXIN FURANS | <input type="checkbox"/> LCMSMS PERCHLORATES |
| <input type="checkbox"/> TPH-DRO | <input type="checkbox"/> METALS | <input type="checkbox"/> PCB CONGENERS | <input type="checkbox"/> ORGANOCHLORINE |
| <input type="checkbox"/> GENERAL CHEMISTRY | <input type="checkbox"/> RADIOCHEMISTRY | <input type="checkbox"/> LCMSMS HIGH EXPLOSIVES | <input type="checkbox"/> PESTICIDES/POLYCHLORINATED BIPHENYLS |

☒ OTHER (DESCRIBE): SVOCs

Section II. Completeness Check

- | YES | NO | N/A | (CHECK ONE) | YES | NO | N/A | (CHECK ONE) |
|-------------------------------------|--------------------------|-------------------------------------|-----------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. CHAIN-OF-CUSTODY FORM(S) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. RAW/BSS DATA |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. CASE NARRATIVE | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7. QUALITY CONTROL FORMS |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. SAMPLE RESULT FORMS | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8. QUANTITATION REPORTS |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4. SAMPLE CHROMATOGRAMS | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9. TICS FORMS |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 5. STANDARD CHROMATOGRAMS | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 10. TICS MASS SPECTRA |

Comments/problems noted (include information about requests for further information submitted to the contract laboratory and agreed-upon date of resolution and contract laboratory point of contact):

1. The ICV %Ds were >20% for pyridine and 2-methyl-4,6-dinitrophenol. In the CCV associated with all samples except RE15-10-8352, -8354 and -8356, the %Ds were >20% for bis(2-chloroethyl)ether, bis(2-chloroisopropyl)ether, and N-nitrosodipropylamine. The associated sample results were NDs and, thus, were qualified UJ,SV7c.
2. It should be noted that the MS/MSD analyses were performed on a parent sample from another LANL RN. No sample data were qualified as a result.

Reviewed by: Mary Donovan Level: I Date: 04/01/10

VALIDATOR'S SIGNATURE:

A handwritten signature in cursive script that reads 'Joanne Compton'.

DATE: 03/30/10

Form 5115-1, Revision 0.0

LOS ALAMOS
Environmental Restoration Project

SEMIVOLATILE ORGANIC COMPOUND (SVOC) ANALYTICAL DATA VALIDATION CHECKLIST


5115-2

Semivolatile Organic Compound (SVOC) Analytical Data Validation Checklist


Records Use only




Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, SV9	J-, SV9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, SV9a	J-, SV9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. The affected analytes are regarded as rejected because the analytical holding time was exceeded.	R, SV9b	R, SV9b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. The instrument performance sample did not pass method acceptance criteria.	R, SV16	R, SV16
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. Samples were analyzed outside specific method tune time criteria.	N/A	J, SV16b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. The required instrument performance sample information is missing. Contact the SMO or external laboratory for information.	R, SV16c	R, SV16c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, R, SV7	J, SV7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.995.	UJ, SV7a	J, SV7a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. The affected analytes were analyzed with an RRF of <0.05 in the initial calibration and/or Continuing Calibration Verification (CCV).	R, SV7b	J, SV7b
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10. The Initial Calibration Verification (ICV) and/or CCV were recovered outside the method-specific limits.	UJ, SV7c	J, SV7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, SV7d	J, SV7d

SEMIVOLATILE ORGANIC COMPOUND (SVOC) ANALYTICAL DATA VALIDATION CHECKLIST	
5115-2 Semivolatile Organic Compound (SVOC) Analytical Data Validation Checklist	Records Use only 

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, SV7f	R, SV7f
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The sample result is $\leq 5X$ (10X for common organic laboratory contaminants) the concentration of the related analyte in the method blank.	U, SV4	J, V4a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5X (10X for common laboratory contaminants).	N/A	J, SV4a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15. The sample result is $\leq 5X$ the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	UJ, SV4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, SV4e	R, SV4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. The IS retention time has shifted by more than 30 seconds.	UJ, SV0	J, SV0
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18. Analyte is positively confirmed but outside the IS retention time window; however, spectral matches must be provided.	N/A	J, SV0a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. Required IS retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, SV0b	R, SV0b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20. The quantitating IS area count is $<10\%$ of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation. Follow method-specific windows.	R, SV1a	J, SV1a

SEMIVOLATILE ORGANIC COMPOUND (SVOC) ANALYTICAL DATA VALIDATION CHECKLIST	
5115-2 Semivolatile Organic Compound (SVOC) Analytical Data Validation Checklist	Records Use only 

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	21. The IS area count for the quantitating IS is <50% but >10% for organics window relation to the previous continuing calibration. Follow method-specific windows.	UJ, SV1b	J, SV1b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	22. The IS area count for the quantitating IS is >200% of the area count for the previous continuing calibration. Follow method-specific windows.	UJ, SV1c	J, SV1c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	23. Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, SV1d	R, SV1d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. The surrogate is <10%R. Follow the external laboratory limits located within the associated data package.	R, SV3	J-, SV3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The surrogate is < the Lower Acceptance Level (LAL) but ≥10%R. Follow the external laboratory limits located within the associated data package.	UJ, SV3a	J-, SV3a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The surrogate %R value is > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, SV3b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. At least one surrogate is > the Upper Acceptance Limit (UAL) and one surrogate is < the LAL. Follow the external laboratory limits located within the associated data package.	UJ, SV3c	J, SV3c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. Required surrogate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, SV3d	R, SV3d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29. The LCS percent recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, SV12	J-, SV12

SEMIVOLATILE ORGANIC COMPOUND (SVOC) ANALYTICAL DATA VALIDATION CHECKLIST	
5115-2 Semivolatile Organic Compound (SVOC) Analytical Data Validation Checklist	Records Use only 

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The LCS percent recovery was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.	UJ, SV12a	J-, SV12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. The LCS percent recovery was > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, SV12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	32. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, SV12c	R, SV12c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	33. The affected analyte is considered not detected because mass spectrum did not meet specifications.	N/A	U, SV8
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	34. The mass spectrum column documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, SV8a	R, SV8a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	35. Duplicate, dilution, or reanalysis.	UJ, SV88	J, SV88
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	36. The affected analytes have elevated detection limits and may not meet project DQOs because the sample was diluted without any target analytes identified due to matrix interference. Qualify as Reject if the analytical laboratory cannot provide proof for matrix interference.	UJ, R, SV15	R, SV15
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	37. Qualification of data via data validation did not occur based on Quality Control requirements in this procedure. Adhere to the external laboratory qualifiers found within the Form I analytical data summary sheets generated by the external laboratory.	U, U_LAB	J, J_LAB, NQ, NQ
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	38. The LANL project chemist identified quality deficiencies in the reported data that requires further qualification. This code can only be used and/or under advisement by the LANL project chemist.	UJ, R, SV19	J, R, SV19

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434011

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Allquot: 30.12 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 17.6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8336
Batch ID: 951989
Run Date: 02/21/2010 15:25
Prep Date: 02/11/2010 22:25
Data File: s4b2116.d

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	403	ug/kg	80.5	403
108-95-2	Phenol	U	403	ug/kg	80.5	403
95-57-8	2-Chlorophenol	U	403	ug/kg	80.5	403
106-46-7	1,4-Dichlorobenzene	U	403	ug/kg	80.5	403
621-64-7	N-Nitrosodipropylamine	U	403	ug/kg	80.5	403 UJ,SV7c
59-50-7	4-Chloro-3-methylphenol	U	403	ug/kg	80.5	403
83-32-9	Acenaphthene	U	40.3	ug/kg	13.3	40.3
121-14-2	2,4-Dinitrotoluene	U	403	ug/kg	40.3	403
100-02-7	4-Nitrophenol	U	403	ug/kg	133	403
87-86-5	Pentachlorophenol	U	403	ug/kg	101	403
129-00-0	Pyrene	U	40.3	ug/kg	12.1	40.3
110-86-1	Pyridine	U	403	ug/kg	80.5	403 UJ,SV7c
62-53-3	Aniline	U	403	ug/kg	121	403
111-44-4	bis(2-Chloroethyl) ether	U	403	ug/kg	80.5	403 UJ,SV7c
541-73-1	1,3-Dichlorobenzene	U	403	ug/kg	80.5	403
100-51-6	Benzyl alcohol	U	403	ug/kg	121	403
95-50-1	1,2-Dichlorobenzene	U	403	ug/kg	80.5	403
108-60-1	bis(2-Chloroisopropyl)ether	U	403	ug/kg	80.5	403 UJ,SV7c
95-48-7	o-Cresol	U	403	ug/kg	80.5	403
65794-96-9	m,p-Cresols	U	403	ug/kg	121	403
67-72-1	Hexachloroethane	U	403	ug/kg	80.5	403
98-95-3	Nitrobenzene	U	403	ug/kg	80.5	403
78-59-1	Isophorone	U	403	ug/kg	80.5	403
88-75-5	2-Nitrophenol	U	403	ug/kg	80.5	403
105-67-9	2,4-Dimethylphenol	U	403	ug/kg	141	403
111-91-1	bis(2-Chloroethoxy)methane	U	403	ug/kg	80.5	403
120-83-2	2,4-Dichlorophenol	U	403	ug/kg	80.5	403
65-85-0	Benzoic acid	U	805	ug/kg	201	805
91-20-3	Naphthalene	U	40.3	ug/kg	12.1	40.3
106-47-8	4-Chloroaniline	U	403	ug/kg	80.5	403
87-68-3	Hexachlorobutadiene	U	403	ug/kg	80.5	403
91-57-6	2-Methylnaphthalene	U	40.3	ug/kg	8.05	40.3
77-47-4	Hexachlorocyclopentadiene	U	403	ug/kg	80.5	403
88-06-2	2,4,6-Trichlorophenol	U	403	ug/kg	80.5	403
95-95-4	2,4,5-Trichlorophenol	U	403	ug/kg	80.5	403
91-58-7	2-Chloronaphthalene	U	40.3	ug/kg	13.3	40.3
88-74-4	2-Nitroaniline	U	403	ug/kg	80.5	403
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	403	ug/kg	80.5	403

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434011	Date Received: 02/06/2010 09:15	%Moisture: 17.6
Client ID: RE15-10-8336	Client: LANL010	Project: LANL01004
Batch ID: 951989	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/21/2010 15:25	Inst: MSD4.I	Dilution: 1
Prep Date: 02/11/2010 22:25	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4b2116.d	Aliquot: 30.12 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	403	ug/kg	80.5	403
606-20-2	2,6-Dinitrotoluene	U	403	ug/kg	40.3	403
208-96-8	Acenaphthylene	U	40.3	ug/kg	12.1	40.3
51-28-5	2,4-Dinitrophenol	U	805	ug/kg	153	805
132-64-9	Dibenzofuran	U	403	ug/kg	80.5	403
84-66-2	Diethylphthalate	U	403	ug/kg	80.5	403
86-73-7	Fluorene	U	40.3	ug/kg	12.1	40.3
7005-72-3	4-Chlorophenylphenylether	U	403	ug/kg	80.5	403
534-52-1	2-Methyl-4,6-dinitrophenol	U	403	ug/kg	80.5	403 UJ,SV7c
100-01-6	4-Nitroaniline	U	403	ug/kg	121	403
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	403	ug/kg	80.5	403
122-66-7	Azobenzene	U	403	ug/kg	80.5	403
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	403	ug/kg	80.5	403
118-74-1	Hexachlorobenzene	U	403	ug/kg	80.5	403
85-01-8	Phenanthrene	U	40.3	ug/kg	12.1	40.3
120-12-7	Anthracene	U	40.3	ug/kg	8.05	40.3
84-74-2	Di-n-butylphthalate	U	403	ug/kg	80.5	403
206-44-0	Fluoranthene	U	40.3	ug/kg	12.1	40.3
85-68-7	Butylbenzylphthalate	U	403	ug/kg	80.5	403
56-55-3	Benzo(a)anthracene	U	40.3	ug/kg	12.1	40.3
91-94-1	3,3'-Dichlorobenzidine	U	403	ug/kg	121	403
218-01-9	Chrysene	U	40.3	ug/kg	12.1	40.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	403	ug/kg	80.5	403
117-84-0	Di-n-octylphthalate	U	403	ug/kg	80.5	403
205-99-2	Benzo(b)fluoranthene	U	40.3	ug/kg	12.1	40.3
207-08-9	Benzo(k)fluoranthene	U	40.3	ug/kg	12.1	40.3
50-32-8	Benzo(a)pyrene	U	40.3	ug/kg	12.1	40.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	40.3	ug/kg	12.1	40.3
53-70-3	Dibenzo(a,h)anthracene	U	40.3	ug/kg	12.1	40.3
191-24-2	Benzo(ghi)perylene	U	40.3	ug/kg	12.1	40.3
120-82-1	1,2,4-Trichlorobenzene	U	403	ug/kg	80.5	403

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.94	404	ug/kg		J
	Unknown	9.41	590	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

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SDG Number: 10-1620
Lab Sample ID: 246434013

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Allquot: 30.02 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 11.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8337
Batch ID: 951989
Run Date: 02/21/2010 16:11
Prep Date: 02/11/2010 22:25
Data File: s4b2118.d

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	376	ug/kg	75.2	376
108-95-2	Phenol	U	376	ug/kg	75.2	376
95-57-8	2-Chlorophenol	U	376	ug/kg	75.2	376
106-46-7	1,4-Dichlorobenzene	U	376	ug/kg	75.2	376
621-64-7	N-Nitrosodipropylamine	U	376	ug/kg	75.2	37. UJ,SV7c
59-50-7	4-Chloro-3-methylphenol	U	376	ug/kg	75.2	376
83-32-9	Acenaphthene	U	37.6	ug/kg	12.4	37.6
121-14-2	2,4-Dinitrotoluene	U	376	ug/kg	37.6	376
100-02-7	4-Nitrophenol	U	376	ug/kg	124	376
87-86-5	Pentachlorophenol	U	376	ug/kg	94.0	376
129-00-0	Pyrene	U	37.6	ug/kg	11.3	37.6
110-86-1	Pyridine	U	376	ug/kg	75.2	376 UJ,SV7c
62-53-3	Aniline	U	376	ug/kg	113	376
111-44-4	bis(2-Chloroethyl) ether	U	376	ug/kg	75.2	376 UJ,SV7c
541-73-1	1,3-Dichlorobenzene	U	376	ug/kg	75.2	376
100-51-6	Benzyl alcohol	U	376	ug/kg	113	376
95-50-1	1,2-Dichlorobenzene	U	376	ug/kg	75.2	376
108-60-1	bis(2-Chloroisopropyl) ether	U	376	ug/kg	75.2	37. UJ,SV7c
95-48-7	o-Cresol	U	376	ug/kg	75.2	376
65794-96-9	m,p-Cresols	U	376	ug/kg	113	376
67-72-1	Hexachloroethane	U	376	ug/kg	75.2	376
98-95-3	Nitrobenzene	U	376	ug/kg	75.2	376
78-59-1	Isophorone	U	376	ug/kg	75.2	376
88-75-5	2-Nitrophenol	U	376	ug/kg	75.2	376
105-67-9	2,4-Dimethylphenol	U	376	ug/kg	132	376
111-91-1	bis(2-Chloroethoxy)methane	U	376	ug/kg	75.2	376
120-83-2	2,4-Dichlorophenol	U	376	ug/kg	75.2	376
65-85-0	Benzoic acid	U	752	ug/kg	188	752
91-20-3	Naphthalene	U	37.6	ug/kg	11.3	37.6
106-47-8	4-Chloroaniline	U	376	ug/kg	75.2	376
87-68-3	Hexachlorobutadiene	U	376	ug/kg	75.2	376
91-57-6	2-Methylnaphthalene	U	37.6	ug/kg	7.52	37.6
77-47-4	Hexachlorocyclopentadiene	U	376	ug/kg	75.2	376
88-06-2	2,4,6-Trichlorophenol	U	376	ug/kg	75.2	376
95-95-4	2,4,5-Trichlorophenol	U	376	ug/kg	75.2	376
91-58-7	2-Chloronaphthalene	U	37.6	ug/kg	12.4	37.6
88-74-4	2-Nitroaniline	U	376	ug/kg	75.2	376
99-09-2	o-Nitroaniline					
	3-Nitroaniline	U	376	ug/kg	75.2	376

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434013	Date Received: 02/06/2010 09:15	%Moisture: 11.4
Client ID: RE15-10-8337	Client: LANL010	Project: LANL01004
Batch ID: 951989	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/21/2010 16:11	Inst: MSD4.I	Dilution: 1
Prep Date: 02/11/2010 22:25	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4b2118.d	Aliquot: 30.02 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
606-20-2	Dimethylphthalate	U	376	ug/kg	75.2	376
208-96-8	2,6-Dinitrotoluene	U	376	ug/kg	37.6	376
51-28-5	Acenaphthylene	U	37.6	ug/kg	11.3	37.6
132-64-9	2,4-Dinitrophenol	U	752	ug/kg	143	752
84-66-2	Dibenzofuran	U	376	ug/kg	75.2	376
86-73-7	Diethylphthalate	U	376	ug/kg	75.2	376
7005-72-3	Fluorene	U	37.6	ug/kg	11.3	37.6
534-52-1	4-Chlorophenylphenylether	U	376	ug/kg	75.2	376
100-01-6	2-Methyl-4,6-dinitrophenol	U	376	ug/kg	75.2	376 UJ,SV7c
122-39-4	4-Nitroaniline	U	376	ug/kg	113	376
122-66-7	<i>p</i> -Nitroaniline					
101-55-3	Diphenylamine	U	376	ug/kg	75.2	376
118-74-1	Azobenzene	U	376	ug/kg	75.2	376
85-01-8	1,2-Diphenylhydrazine					
120-12-7	4-Bromophenylphenylether	U	376	ug/kg	75.2	376
84-74-2	Hexachlorobenzene	U	376	ug/kg	75.2	376
206-44-0	Phenanthrene	U	37.6	ug/kg	11.3	37.6
85-68-7	Anthracene	U	37.6	ug/kg	7.52	37.6
56-55-3	Di-n-butylphthalate	U	376	ug/kg	75.2	376
91-94-1	Fluoranthene	U	37.6	ug/kg	11.3	37.6
218-01-9	Butylbenzylphthalate	U	376	ug/kg	75.2	376
117-81-7	Benzo(a)anthracene	U	37.6	ug/kg	11.3	37.6
117-84-0	3,3'-Dichlorobenzidine	U	376	ug/kg	113	376
205-99-2	Chrysene	U	37.6	ug/kg	11.3	37.6
207-08-9	bis(2-Ethylhexyl)phthalate	U	376	ug/kg	75.2	376
50-32-8	Di-n-octylphthalate	U	376	ug/kg	75.2	376
193-39-5	Benzo(b)fluoranthene	U	37.6	ug/kg	11.3	37.6
53-70-3	Benzo(k)fluoranthene	U	37.6	ug/kg	11.3	37.6
191-24-2	Benzo(a)pyrene	U	37.6	ug/kg	11.3	37.6
120-82-1	Indeno(1,2,3-cd)pyrene	U	37.6	ug/kg	11.3	37.6
	Dibenzo(a,h)anthracene	U	37.6	ug/kg	11.3	37.6
	Benzo(ghi)perylene	U	37.6	ug/kg	11.3	37.6
	1,2,4-Trichlorobenzene	U	376	ug/kg	75.2	376

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.94	361	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

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SDG Number: 10-1620
Lab Sample ID: 246434010

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Allquot: 30.12 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 22.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	428	ug/kg	85.5	428
108-95-2	Phenol	U	428	ug/kg	85.5	428
95-57-8	2-Chlorophenol	U	428	ug/kg	85.5	428
106-46-7	1,4-Dichlorobenzene	U	428	ug/kg	85.5	428
621-64-7	N-Nitrosodipropylamine	U	428	ug/kg	85.5	428 UJ,SV7c
59-50-7	4-Chloro-3-methylphenol	U	428	ug/kg	85.5	428
83-32-9	Acenaphthene	U	42.8	ug/kg	14.1	42.8
121-14-2	2,4-Dinitrotoluene	U	428	ug/kg	42.8	428
100-02-7	4-Nitrophenol	U	428	ug/kg	141	428
87-86-5	Pentachlorophenol	U	428	ug/kg	107	428
129-00-0	Pyrene	U	42.8	ug/kg	12.8	42.8
110-86-1	Pyridine	U	428	ug/kg	85.5	428 UJ,SV7c
62-53-3	Aniline	U	428	ug/kg	128	428
111-44-4	bis(2-Chloroethyl) ether	U	428	ug/kg	85.5	428 UJ,SV7c
541-73-1	1,3-Dichlorobenzene	U	428	ug/kg	85.5	428
100-51-6	Benzyl alcohol	U	428	ug/kg	128	428
95-50-1	1,2-Dichlorobenzene	U	428	ug/kg	85.5	428
108-60-1	bis(2-Chloroisopropyl)ether	U	428	ug/kg	85.5	428 UJ,SV7c
95-48-7	o-Cresol	U	428	ug/kg	85.5	428
65794-96-9	m,p-Cresols	U	428	ug/kg	128	428
67-72-1	Hexachloroethane	U	428	ug/kg	85.5	428
98-95-3	Nitrobenzene	U	428	ug/kg	85.5	428
78-59-1	Isophorone	U	428	ug/kg	85.5	428
88-75-5	2-Nitrophenol	U	428	ug/kg	85.5	428
105-67-9	2,4-Dimethylphenol	U	428	ug/kg	150	428
111-91-1	bis(2-Chloroethoxy)methane	U	428	ug/kg	85.5	428
120-83-2	2,4-Dichlorophenol	U	428	ug/kg	85.5	428
65-85-0	Benzoic acid	U	855	ug/kg	214	855
91-20-3	Naphthalene	U	42.8	ug/kg	12.8	42.8
106-47-8	4-Chloroaniline	U	428	ug/kg	85.5	428
87-68-3	Hexachlorobutadiene	U	428	ug/kg	85.5	428
91-57-6	2-Methylnaphthalene	U	42.8	ug/kg	8.55	42.8
77-47-4	Hexachlorocyclopentadiene	U	428	ug/kg	85.5	428
88-06-2	2,4,6-Trichlorophenol	U	428	ug/kg	85.5	428
95-95-4	2,4,5-Trichlorophenol	U	428	ug/kg	85.5	428
91-58-7	2-Chloronaphthalene	U	42.8	ug/kg	14.1	42.8
88-74-4	2-Nitroaniline	U	428	ug/kg	85.5	428
99-09-2	o-Nitroaniline	U	428	ug/kg	85.5	428
	3-Nitroaniline	U	428	ug/kg	85.5	428

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434010	Date Received: 02/06/2010 09:15	%Moisture: 22.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8338	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 15:02	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s4b2115.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	428	ug/kg	85.5	428
606-20-2	2,6-Dinitrotoluene	U	428	ug/kg	42.8	428
208-96-8	Acenaphthylene	U	42.8	ug/kg	12.8	42.8
51-28-5	2,4-Dinitrophenol	U	855	ug/kg	163	855
132-64-9	Dibenzofuran	U	428	ug/kg	85.5	428
84-66-2	Diethylphthalate	U	428	ug/kg	85.5	428
86-73-7	Fluorene	U	42.8	ug/kg	12.8	42.8
7005-72-3	4-Chlorophenylphenylether	U	428	ug/kg	85.5	428
534-52-1	2-Methyl-4,6-dinitrophenol	U	428	ug/kg	85.5	428 UJ,SV7c
100-01-6	4-Nitroaniline	U	428	ug/kg	128	428
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	428	ug/kg	85.5	428
122-66-7	Azobenzene	U	428	ug/kg	85.5	428
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	428	ug/kg	85.5	428
118-74-1	Hexachlorobenzene	U	428	ug/kg	85.5	428
85-01-8	Phenanthrene	U	42.8	ug/kg	12.8	42.8
120-12-7	Anthracene	U	42.8	ug/kg	8.55	42.8
84-74-2	Di-n-butylphthalate	U	428	ug/kg	85.5	428
206-44-0	Fluoranthene	U	42.8	ug/kg	12.8	42.8
85-68-7	Butylbenzylphthalate	U	428	ug/kg	85.5	428
56-55-3	Benzo(a)anthracene	U	42.8	ug/kg	12.8	42.8
91-94-1	3,3'-Dichlorobenzidine	U	428	ug/kg	128	428
218-01-9	Chrysene	U	42.8	ug/kg	12.8	42.8
117-81-7	bis(2-Ethylhexyl)phthalate	U	428	ug/kg	85.5	428
117-84-0	Di-n-octylphthalate	U	428	ug/kg	85.5	428
205-99-2	Benzo(b)fluoranthene	U	42.8	ug/kg	12.8	42.8
207-08-9	Benzo(k)fluoranthene	U	42.8	ug/kg	12.8	42.8
50-32-8	Benzo(a)pyrene	U	42.8	ug/kg	12.8	42.8
193-39-5	Indeno(1,2,3-cd)pyrene	U	42.8	ug/kg	12.8	42.8
53-70-3	Dibenzo(a,h)anthracene	U	42.8	ug/kg	12.8	42.8
191-24-2	Benzo(ghi)perylene	U	42.8	ug/kg	12.8	42.8
120-82-1	1,2,4-Trichlorobenzene	U	428	ug/kg	85.5	428

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown Aldol Condensate	2.93	315	ug/kg		J
7785-70-8	1R-.alpha.-Pinene	3.47	1090	ug/kg	95	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434010	Date Received: 02/06/2010 09:15	%Moisture: 22.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8338	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 15:02	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s4b2115.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary			Estimated			
CAS No.	Tentatively Identified Compound (TIC)	RT		Units	Flt	Qual
13466-78-9	3-Carene	3.86	1480	ug/kg	95	NJ
	Unknown	4.23	180	ug/kg		J
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.75	825	ug/kg	99	NJ
	Unknown	8.06	421	ug/kg		J
	Unknown	8.18	226	ug/kg		J
	Unknown	8.43	765	ug/kg		J
	Unknown	9.4	265	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434012

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Allquot: 30.1 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8339
Batch ID: 951989
Run Date: 02/21/2010 15:48
Prep Date: 02/11/2010 22:25
Data File: s4b2117.d

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	353	ug/kg	70.7	353
108-95-2	Phenol	U	353	ug/kg	70.7	353
95-57-8	2-Chlorophenol	U	353	ug/kg	70.7	353
106-46-7	1,4-Dichlorobenzene	U	353	ug/kg	70.7	353
621-64-7	N-Nitrosodipropylamine	U	353	ug/kg	70.7	353 UJ,SV7c
59-50-7	4-Chloro-3-methylphenol	U	353	ug/kg	70.7	353
83-32-9	Acenaphthene	U	35.3	ug/kg	11.7	35.3
121-14-2	2,4-Dinitrotoluene	U	353	ug/kg	35.3	353
100-02-7	4-Nitrophenol	U	353	ug/kg	117	353
87-86-5	Pentachlorophenol	U	353	ug/kg	88.3	353
129-00-0	Pyrene	U	35.3	ug/kg	10.6	35.3
110-86-1	Pyridine	U	353	ug/kg	70.7	353 UJ,SV7c
62-53-3	Aniline	U	353	ug/kg	106	353
111-44-4	bis(2-Chloroethyl) ether	U	353	ug/kg	70.7	353 UJ,SV7c
541-73-1	1,3-Dichlorobenzene	U	353	ug/kg	70.7	353
100-51-6	Benzyl alcohol	U	353	ug/kg	106	353
95-50-1	1,2-Dichlorobenzene	U	353	ug/kg	70.7	353
108-60-1	bis(2-Chloroisopropyl)ether	U	353	ug/kg	70.7	353 UJ,SV7c
95-48-7	o-Cresol	U	353	ug/kg	70.7	353
65794-96-9	m,p-Cresols	U	353	ug/kg	106	353
67-72-1	Hexachloroethane	U	353	ug/kg	70.7	353
98-95-3	Nitrobenzene	U	353	ug/kg	70.7	353
78-59-1	Isophorone	U	353	ug/kg	70.7	353
88-75-5	2-Nitrophenol	U	353	ug/kg	70.7	353
105-67-9	2,4-Dimethylphenol	U	353	ug/kg	124	353
111-91-1	bis(2-Chloroethoxy)methane	U	353	ug/kg	70.7	353
120-83-2	2,4-Dichlorophenol	U	353	ug/kg	70.7	353
65-85-0	Benzoic acid	U	707	ug/kg	177	707
91-20-3	Naphthalene	U	35.3	ug/kg	10.6	35.3
106-47-8	4-Chloroaniline	U	353	ug/kg	70.7	353
87-68-3	Hexachlorobutadiene	U	353	ug/kg	70.7	353
91-57-6	2-Methylnaphthalene	U	35.3	ug/kg	7.07	35.3
77-47-4	Hexachlorocyclopentadiene	U	353	ug/kg	70.7	353
88-06-2	2,4,6-Trichlorophenol	U	353	ug/kg	70.7	353
95-95-4	2,4,5-Trichlorophenol	U	353	ug/kg	70.7	353
91-58-7	2-Chloronaphthalene	U	35.3	ug/kg	11.7	35.3
88-74-4	2-Nitroaniline	U	353	ug/kg	70.7	353
99-09-2	o-Nitroaniline					
	3-Nitroaniline	U	353	ug/kg	70.7	353

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434012	Date Received: 02/06/2010 09:15	%Moisture: 6
Client ID: RE15-10-8339	Client: LANL010	Project: LANL01004
Batch ID: 951989	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/21/2010 15:48	Inst: MSD4.I	Dilution: 1
Prep Date: 02/11/2010 22:25	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4b2117.d	Allquot: 30.1 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	353	ug/kg	70.7	353
606-20-2	2,6-Dinitrotoluene	U	353	ug/kg	35.3	353
208-96-8	Acenaphthylene	U	35.3	ug/kg	10.6	35.3
51-28-5	2,4-Dinitrophenol	U	707	ug/kg	134	707
132-64-9	Dibenzofuran	U	353	ug/kg	70.7	353
84-66-2	Diethylphthalate	U	353	ug/kg	70.7	353
86-73-7	Fluorene	U	35.3	ug/kg	10.6	35.3
7005-72-3	4-Chlorophenylphenylether	U	353	ug/kg	70.7	353
534-52-1	2-Methyl-4,6-dinitrophenol	U	353	ug/kg	70.7	353 UJ,SV7c
100-01-6	4-Nitroaniline	U	353	ug/kg	106	353
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	353	ug/kg	70.7	353
122-66-7	Azobenzene	U	353	ug/kg	70.7	353
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	353	ug/kg	70.7	353
118-74-1	Hexachlorobenzene	U	353	ug/kg	70.7	353
85-01-8	Phenanthrene	U	35.3	ug/kg	10.6	35.3
120-12-7	Anthracene	U	35.3	ug/kg	7.07	35.3
84-74-2	Di-n-butylphthalate	U	353	ug/kg	70.7	353
206-44-0	Fluoranthene	U	35.3	ug/kg	10.6	35.3
85-68-7	Butylbenzylphthalate	U	353	ug/kg	70.7	353
56-55-3	Benzo(a)anthracene	U	35.3	ug/kg	10.6	35.3
91-94-1	3,3'-Dichlorobenzidine	U	353	ug/kg	106	353
218-01-9	Chrysene	U	35.3	ug/kg	10.6	35.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	353	ug/kg	70.7	353
117-84-0	Di-n-octylphthalate	U	353	ug/kg	70.7	353
205-99-2	Benzo(b)fluoranthene	U	35.3	ug/kg	10.6	35.3
207-08-9	Benzo(k)fluoranthene	U	35.3	ug/kg	10.6	35.3
50-32-8	Benzo(a)pyrene	U	35.3	ug/kg	10.6	35.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.3	ug/kg	10.6	35.3
53-70-3	Dibenzo(a,h)anthracene	U	35.3	ug/kg	10.6	35.3
191-24-2	Benzo(ghi)perylene	U	35.3	ug/kg	10.6	35.3
120-82-1	1,2,4-Trichlorobenzene	U	353	ug/kg	70.7	353

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.04	466	ug/kg		J
	Unknown Aldol Condensate	2.93	459	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434008	Date Received: 02/06/2010 09:15	%Moisture: 23.1
Client ID: RE15-10-8350	Client: LANL010	Project: LANL01004
Batch ID: 951989	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/21/2010 14:17	Inst: MSD4.I	Dilution: 1
Prep Date: 02/11/2010 22:25	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4b2113.d	Allquot: 30.03 g	Final Volume: 1 mL
	Column: J&W DB-SMS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	433	ug/kg	86.6	433
108-95-2	Phenol	U	433	ug/kg	86.6	433
95-57-8	2-Chlorophenol	U	433	ug/kg	86.6	433
106-46-7	1,4-Dichlorobenzene	U	433	ug/kg	86.6	433
621-64-7	N-Nitrosodipropylamine	U	433	ug/kg	86.6	433 UJ,SV7c
59-50-7	4-Chloro-3-methylphenol	U	433	ug/kg	86.6	433
83-32-9	Acenaphthene	U	43.3	ug/kg	14.3	43.3
121-14-2	2,4-Dinitrotoluene	U	433	ug/kg	43.3	433
100-02-7	4-Nitrophenol	U	433	ug/kg	143	433
87-86-5	Pentachlorophenol	U	433	ug/kg	108	433
129-00-0	Pyrene	U	43.3	ug/kg	13.0	43.3
110-86-1	Pyridine	U	433	ug/kg	86.6	433 UJ,SV7c
62-53-3	Aniline	U	433	ug/kg	130	433
111-44-4	bis(2-Chloroethyl) ether	U	433	ug/kg	86.6	433 UJ,SV7c
541-73-1	1,3-Dichlorobenzene	U	433	ug/kg	86.6	433
100-51-6	Benzyl alcohol	U	433	ug/kg	130	433
95-50-1	1,2-Dichlorobenzene	U	433	ug/kg	86.6	433
108-60-1	bis(2-Chloroisopropyl) ether	U	433	ug/kg	86.6	433 UJ,SV7c
95-48-7	o-Cresol	U	433	ug/kg	86.6	433
65794-96-9	m,p-Cresols	U	433	ug/kg	130	433
67-72-1	Hexachloroethane	U	433	ug/kg	86.6	433
98-95-3	Nitrobenzene	U	433	ug/kg	86.6	433
78-59-1	Isophorone	U	433	ug/kg	86.6	433
88-75-5	2-Nitrophenol	U	433	ug/kg	86.6	433
105-67-9	2,4-Dimethylphenol	U	433	ug/kg	152	433
111-91-1	bis(2-Chloroethoxy)methane	U	433	ug/kg	86.6	433
120-83-2	2,4-Dichlorophenol	U	433	ug/kg	86.6	433
65-85-0	Benzoic acid	U	866	ug/kg	216	866
91-20-3	Naphthalene	U	43.3	ug/kg	13.0	43.3
106-47-8	4-Chloroaniline	U	433	ug/kg	86.6	433
87-68-3	Hexachlorobutadiene	U	433	ug/kg	86.6	433
91-57-6	2-Methylnaphthalene	U	43.3	ug/kg	8.66	43.3
77-47-4	Hexachlorocyclopentadiene	U	433	ug/kg	86.6	433
88-06-2	2,4,6-Trichlorophenol	U	433	ug/kg	86.6	433
95-95-4	2,4,5-Trichlorophenol	U	433	ug/kg	86.6	433
91-58-7	2-Chloronaphthalene	U	43.3	ug/kg	14.3	43.3
88-74-4	2-Nitroaniline	U	433	ug/kg	86.6	433
99-09-2	o-Nitroaniline	U	433	ug/kg	86.6	433
	3-Nitroaniline					

Semi-Volatile
Certificate of Analysis
Sample Summary

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SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434008	Date Received: 02/06/2010 09:15	%Moisture: 23.1
Client ID: RE15-10-8350	Client: LANL010	Project: LANL01004
Batch ID: 951989	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/21/2010 14:17	Inst: MSD4.I	Dilution: 1
Prep Date: 02/11/2010 22:25	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4b2113.d	Aliquot: 30.03 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	433	ug/kg	86.6	433
606-20-2	2,6-Dinitrotoluene	U	433	ug/kg	43.3	433
208-96-8	Acenaphthylene	U	43.3	ug/kg	13.0	43.3
51-28-5	2,4-Dinitrophenol	U	866	ug/kg	165	866
132-64-9	Dibenzofuran	U	433	ug/kg	86.6	433
84-66-2	Diethylphthalate	U	433	ug/kg	86.6	433
86-73-7	Fluorene	U	43.3	ug/kg	13.0	43.3
7005-72-3	4-Chlorophenylphenylether	U	433	ug/kg	86.6	433
534-52-1	2-Methyl-4,6-dinitrophenol	U	433	ug/kg	86.6	433 UJ,SV7c
100-01-6	4-Nitroaniline	U	433	ug/kg	130	433
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	433	ug/kg	86.6	433
122-66-7	Azobenzene	U	433	ug/kg	86.6	433
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	433	ug/kg	86.6	433
118-74-1	Hexachlorobenzene	U	433	ug/kg	86.6	433
85-01-8	Phenanthrene	U	43.3	ug/kg	13.0	43.3
120-12-7	Anthracene	U	43.3	ug/kg	8.66	43.3
84-74-2	Di-n-butylphthalate	U	433	ug/kg	86.6	433
206-44-0	Fluoranthene	U	43.3	ug/kg	13.0	43.3
85-68-7	Butylbenzylphthalate	U	433	ug/kg	86.6	433
56-55-3	Benzo(a)anthracene	U	43.3	ug/kg	13.0	43.3
91-94-1	3,3'-Dichlorobenzidine	U	433	ug/kg	130	433
218-01-9	Chrysene	U	43.3	ug/kg	13.0	43.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	433	ug/kg	86.6	433
117-84-0	Di-n-octylphthalate	U	433	ug/kg	86.6	433
205-99-2	Benzo(b)fluoranthene	U	43.3	ug/kg	13.0	43.3
207-08-9	Benzo(k)fluoranthene	U	43.3	ug/kg	13.0	43.3
50-32-8	Benzo(a)pyrene	U	43.3	ug/kg	13.0	43.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	43.3	ug/kg	13.0	43.3
53-70-3	Dibenzo(a,h)anthracene	U	43.3	ug/kg	13.0	43.3
191-24-2	Benzo(ghi)perylene	U	43.3	ug/kg	13.0	43.3
120-82-1	1,2,4-Trichlorobenzene	U	433	ug/kg	86.6	433

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.93	513	ug/kg		J
	Unknown	9.41	205	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

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SDG Number: 10-1620
Lab Sample ID: 246434007

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.15 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 15.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8351
Batch ID: 951989
Run Date: 02/21/2010 13:54
Prep Date: 02/11/2010 22:25
Data File: s4b2112.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	391	ug/kg	78.2	391
108-95-2	Phenol	U	391	ug/kg	78.2	391
95-57-8	2-Chlorophenol	U	391	ug/kg	78.2	391
106-46-7	1,4-Dichlorobenzene	U	391	ug/kg	78.2	391
621-64-7	N-Nitrosodipropylamine	U	391	ug/kg	78.2	391 UJ,SV7c
59-50-7	4-Chloro-3-methylphenol	U	391	ug/kg	78.2	391
83-32-9	Acenaphthene	U	39.1	ug/kg	12.9	39.1
121-14-2	2,4-Dinitrotoluene	U	391	ug/kg	39.1	391
100-02-7	4-Nitrophenol	U	391	ug/kg	129	391
87-86-5	Pentachlorophenol	U	391	ug/kg	97.7	391
129-00-0	Pyrene	U	39.1	ug/kg	11.7	39.1
110-86-1	Pyridine	U	391	ug/kg	78.2	391 UJ,SV7c
62-53-3	Aniline	U	391	ug/kg	117	391
111-44-4	bis(2-Chloroethyl) ether	U	391	ug/kg	78.2	391 UJ,SV7c
541-73-1	1,3-Dichlorobenzene	U	391	ug/kg	78.2	391
100-51-6	Benzyl alcohol	U	391	ug/kg	117	391
95-50-1	1,2-Dichlorobenzene	U	391	ug/kg	78.2	391
108-60-1	bis(2-Chloroisopropyl) ether	U	391	ug/kg	78.2	391 UJ,SV7c
95-48-7	o-Cresol	U	391	ug/kg	78.2	391
65794-96-9	m,p-Cresols	U	391	ug/kg	117	391
67-72-1	Hexachloroethane	U	391	ug/kg	78.2	391
98-95-3	Nitrobenzene	U	391	ug/kg	78.2	391
78-59-1	Isophorone	U	391	ug/kg	78.2	391
88-75-5	2-Nitrophenol	U	391	ug/kg	78.2	391
105-67-9	2,4-Dimethylphenol	U	391	ug/kg	137	391
111-91-1	bis(2-Chloroethoxy)methane	U	391	ug/kg	78.2	391
120-83-2	2,4-Dichlorophenol	U	391	ug/kg	78.2	391
65-85-0	Benzoic acid	U	782	ug/kg	195	782
91-20-3	Naphthalene	U	39.1	ug/kg	11.7	39.1
106-47-8	4-Chloroaniline	U	391	ug/kg	78.2	391
87-68-3	Hexachlorobutadiene	U	391	ug/kg	78.2	391
91-57-6	2-Methylnaphthalene	U	39.1	ug/kg	7.82	39.1
77-47-4	Hexachlorocyclopentadiene	U	391	ug/kg	78.2	391
88-06-2	2,4,6-Trichlorophenol	U	391	ug/kg	78.2	391
95-95-4	2,4,5-Trichlorophenol	U	391	ug/kg	78.2	391
91-58-7	2-Chloronaphthalene	U	39.1	ug/kg	12.9	39.1
88-74-4	2-Nitroaniline	U	391	ug/kg	78.2	391
99-09-2	o-Nitroaniline	U	391	ug/kg	78.2	391
	3-Nitroaniline					

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434007

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.15 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 15.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8351
Batch ID: 951989
Run Date: 02/21/2010 13:54
Prep Date: 02/11/2010 22:25
Data File: s4b2112.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	391	ug/kg	78.2	391
606-20-2	2,6-Dinitrotoluene	U	391	ug/kg	39.1	391
208-96-8	Acenaphthylene	U	39.1	ug/kg	11.7	39.1
51-28-5	2,4-Dinitrophenol	U	782	ug/kg	148	782
132-64-9	Dibenzofuran	U	391	ug/kg	78.2	391
84-66-2	Diethylphthalate	U	391	ug/kg	78.2	391
86-73-7	Fluorene	U	39.1	ug/kg	11.7	39.1
7005-72-3	4-Chlorophenylphenylether	U	391	ug/kg	78.2	391
534-52-1	2-Methyl-4,6-dinitrophenol	U	391	ug/kg	78.2	391 UJ,SV7c
100-01-6	4-Nitroaniline	U	391	ug/kg	117	391
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	391	ug/kg	78.2	391
122-66-7	Azobenzene	U	391	ug/kg	78.2	391
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	391	ug/kg	78.2	391
118-74-1	Hexachlorobenzene	U	391	ug/kg	78.2	391
85-01-8	Phenanthrene	U	39.1	ug/kg	11.7	39.1
120-12-7	Anthracene	U	39.1	ug/kg	7.82	39.1
84-74-2	Di-n-butylphthalate	U	391	ug/kg	78.2	391
206-44-0	Fluoranthene	U	39.1	ug/kg	11.7	39.1
85-68-7	Butylbenzylphthalate	U	391	ug/kg	78.2	391
56-55-3	Benzo(a)anthracene	U	39.1	ug/kg	11.7	39.1
91-94-1	3,3'-Dichlorobenzidine	U	391	ug/kg	117	391
218-01-9	Chrysene	U	39.1	ug/kg	11.7	39.1
117-81-7	bis(2-Ethylhexyl)phthalate	U	391	ug/kg	78.2	391
117-84-0	Di-n-octylphthalate	U	391	ug/kg	78.2	391
205-99-2	Benzo(b)fluoranthene	U	39.1	ug/kg	11.7	39.1
207-08-9	Benzo(k)fluoranthene	U	39.1	ug/kg	11.7	39.1
50-32-8	Benzo(a)pyrene	U	39.1	ug/kg	11.7	39.1
193-39-5	Indeno(1,2,3-cd)pyrene	U	39.1	ug/kg	11.7	39.1
53-70-3	Dibenzo(a,h)anthracene	U	39.1	ug/kg	11.7	39.1
191-24-2	Benzo(ghi)perylene	U	39.1	ug/kg	11.7	39.1
120-82-1	1,2,4-Trichlorobenzene	U	391	ug/kg	78.2	391

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.94	411	ug/kg		J
7785-70-8	1R- α -Pinene	3.47	565	ug/kg	95	NJ

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434007	Date Received: 02/06/2010 09:15	%Moisture: 15.1
Client ID: RE15-10-8351	Client: LANL010	Project: LANL01004
Batch ID: 951989	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/21/2010 13:54	Inst: MSD4.I	Dilution: 1
Prep Date: 02/11/2010 22:25	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4b2112.d	Aliquot: 30.15 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
127-91-3	.beta.-Pinene	3.72	1030	ug/kg	94	NJ
498-15-7	Bicyclo[4.1.0]hept-3-ene, 3,7,7-trimethy	3.86	352	ug/kg	97	NJ
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.75	355	ug/kg	99	NJ
	Unknown	8.44	235	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

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SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434005	Date Received: 02/06/2010 09:15	%Moisture: 23
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8352	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/20/2010 21:05	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.02 g	Final Volume: 1 mL
Data File: s4b2029.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	433	ug/kg	86.5	433
108-95-2	Phenol	U	433	ug/kg	86.5	433
95-57-8	2-Chlorophenol	U	433	ug/kg	86.5	433
106-46-7	1,4-Dichlorobenzene	U	433	ug/kg	86.5	433
621-64-7	N-Nitrosodipropylamine	U	433	ug/kg	86.5	433
59-50-7	4-Chloro-3-methylphenol	U	433	ug/kg	86.5	433
83-32-9	Acenaphthene	U	43.3	ug/kg	14.3	43.3
121-14-2	2,4-Dinitrotoluene	U	433	ug/kg	43.3	433
100-02-7	4-Nitrophenol	U	433	ug/kg	143	433
87-86-5	Pentachlorophenol	U	433	ug/kg	108	433
129-00-0	Pyrene	U	43.3	ug/kg	13.0	43.3
110-86-1	Pyridine	U	433	ug/kg	86.5	433 UJ,SV7c
62-53-3	Aniline	U	433	ug/kg	130	433
111-44-4	bis(2-Chloroethyl) ether	U	433	ug/kg	86.5	433
541-73-1	1,3-Dichlorobenzene	U	433	ug/kg	86.5	433
100-51-6	Benzyl alcohol	U	433	ug/kg	130	433
95-50-1	1,2-Dichlorobenzene	U	433	ug/kg	86.5	433
108-60-1	bis(2-Chloroisopropyl)ether	U	433	ug/kg	86.5	433
95-48-7	o-Cresol	U	433	ug/kg	86.5	433
65794-96-9	m,p-Cresols	U	433	ug/kg	130	433
67-72-1	Hexachloroethane	U	433	ug/kg	86.5	433
98-95-3	Nitrobenzene	U	433	ug/kg	86.5	433
78-59-1	Isophorone	U	433	ug/kg	86.5	433
88-75-5	2-Nitrophenol	U	433	ug/kg	86.5	433
105-67-9	2,4-Dimethylphenol	U	433	ug/kg	151	433
111-91-1	bis(2-Chloroethoxy)methane	U	433	ug/kg	86.5	433
120-83-2	2,4-Dichlorophenol	U	433	ug/kg	86.5	433
65-85-0	Benzoic acid	U	865	ug/kg	216	865
91-20-3	Naphthalene	U	43.3	ug/kg	13.0	43.3
106-47-8	4-Chloroaniline	U	433	ug/kg	86.5	433
87-68-3	Hexachlorobutadiene	U	433	ug/kg	86.5	433
91-57-6	2-Methylnaphthalene	U	43.3	ug/kg	8.65	43.3
77-47-4	Hexachlorocyclopentadiene	U	433	ug/kg	86.5	433
88-06-2	2,4,6-Trichlorophenol	U	433	ug/kg	86.5	433
95-95-4	2,4,5-Trichlorophenol	U	433	ug/kg	86.5	433
91-58-7	2-Chloronaphthalene	U	43.3	ug/kg	14.3	43.3
88-74-4	2-Nitroaniline	U	433	ug/kg	86.5	433
99-09-2	o-Nitroaniline					
	3-Nitroaniline	U	433	ug/kg	86.5	433

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434005	Date Received: 02/06/2010 09:15	%Moisture: 23
Client ID: RE15-10-8352	Client: LANL010	Project: LANL01004
Batch ID: 951989	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/20/2010 21:05	Inst: MSD4.I	Dilution: 1
Prep Date: 02/11/2010 22:25	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4b2029.d	Aliquot: 30.02 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	433	ug/kg	86.5	433
606-20-2	2,6-Dinitrotoluene	U	433	ug/kg	43.3	433
208-96-8	Acenaphthylene	U	43.3	ug/kg	13.0	43.3
51-28-5	2,4-Dinitrophenol	U	865	ug/kg	164	865
132-64-9	Dibenzofuran	U	433	ug/kg	86.5	433
84-66-2	Diethylphthalate	U	433	ug/kg	86.5	433
86-73-7	Fluorene	U	43.3	ug/kg	13.0	43.3
7005-72-3	4-Chlorophenylphenylether	U	433	ug/kg	86.5	433
534-52-1	2-Methyl-4,6-dinitrophenol	U	433	ug/kg	86.5	433 UJ,SV7c
100-01-6	4-Nitroaniline	U	433	ug/kg	130	433
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	433	ug/kg	86.5	433
122-66-7	Azobenzene	U	433	ug/kg	86.5	433
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	433	ug/kg	86.5	433
118-74-1	Hexachlorobenzene	U	433	ug/kg	86.5	433
85-01-8	Phenanthrene	U	43.3	ug/kg	13.0	43.3
120-12-7	Anthracene	U	43.3	ug/kg	8.65	43.3
84-74-2	Di-n-butylphthalate	U	433	ug/kg	86.5	433
206-44-0	Fluoranthene	U	43.3	ug/kg	13.0	43.3
85-68-7	Butylbenzylphthalate	U	433	ug/kg	86.5	433
56-55-3	Benzo(a)anthracene	U	43.3	ug/kg	13.0	43.3
91-94-1	3,3'-Dichlorobenzidine	U	433	ug/kg	130	433
218-01-9	Chrysene	U	43.3	ug/kg	13.0	43.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	433	ug/kg	86.5	433
117-84-0	Di-n-octylphthalate	U	433	ug/kg	86.5	433
205-99-2	Benzo(b)fluoranthene	U	43.3	ug/kg	13.0	43.3
207-08-9	Benzo(k)fluoranthene	U	43.3	ug/kg	13.0	43.3
50-32-8	Benzo(a)pyrene	U	43.3	ug/kg	13.0	43.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	43.3	ug/kg	13.0	43.3
53-70-3	Dibenzo(a,h)anthracene	U	43.3	ug/kg	13.0	43.3
191-24-2	Benzo(ghi)perylene	U	43.3	ug/kg	13.0	43.3
120-82-1	1,2,4-Trichlorobenzene	U	433	ug/kg	86.5	433

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.1	381	ug/kg		J
	Unknown Aldol Condensate	2.97	644	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434004

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.05 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 13
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	382	ug/kg	76.5	382
108-95-2	Phenol	U	382	ug/kg	76.5	382
95-57-8	2-Chlorophenol	U	382	ug/kg	76.5	382
106-46-7	1,4-Dichlorobenzene	U	382	ug/kg	76.5	382
621-64-7	N-Nitrosodipropylamine	U	382	ug/kg	76.5	382 UJ,SV7c
59-50-7	4-Chloro-3-methylphenol	U	382	ug/kg	76.5	382
83-32-9	Acenaphthene	U	38.2	ug/kg	12.6	38.2
121-14-2	2,4-Dinitrotoluene	U	382	ug/kg	38.2	382
100-02-7	4-Nitrophenol	U	382	ug/kg	126	382
87-86-5	Pentachlorophenol	U	382	ug/kg	95.6	382
129-00-0	Pyrene	U	38.2	ug/kg	11.5	38.2
110-86-1	Pyridine	U	382	ug/kg	76.5	382 UJ,SV7c
62-53-3	Aniline	U	382	ug/kg	115	382
111-44-4	bis(2-Chloroethyl) ether	U	382	ug/kg	76.5	382 UJ,SV7c
541-73-1	1,3-Dichlorobenzene	U	382	ug/kg	76.5	382
100-51-6	Benzyl alcohol	U	382	ug/kg	115	382
95-50-1	1,2-Dichlorobenzene	U	382	ug/kg	76.5	382
108-60-1	bis(2-Chloroisopropyl) ether	U	382	ug/kg	76.5	382 UJ,SV7c
95-48-7	o-Cresol	U	382	ug/kg	76.5	382
65794-96-9	m,p-Cresols	U	382	ug/kg	115	382
67-72-1	Hexachloroethane	U	382	ug/kg	76.5	382
98-95-3	Nitrobenzene	U	382	ug/kg	76.5	382
78-59-1	Isophorone	U	382	ug/kg	76.5	382
88-75-5	2-Nitrophenol	U	382	ug/kg	76.5	382
105-67-9	2,4-Dimethylphenol	U	382	ug/kg	134	382
111-91-1	bis(2-Chloroethoxy)methane	U	382	ug/kg	76.5	382
120-83-2	2,4-Dichlorophenol	U	382	ug/kg	76.5	382
65-85-0	Benzoic acid	U	765	ug/kg	191	765
91-20-3	Naphthalene	U	38.2	ug/kg	11.5	38.2
106-47-8	4-Chloroaniline	U	382	ug/kg	76.5	382
87-68-3	Hexachlorobutadiene	U	382	ug/kg	76.5	382
91-57-6	2-Methylnaphthalene	U	38.2	ug/kg	7.65	38.2
77-47-4	Hexachlorocyclopentadiene	U	382	ug/kg	76.5	382
88-06-2	2,4,6-Trichlorophenol	U	382	ug/kg	76.5	382
95-95-4	2,4,5-Trichlorophenol	U	382	ug/kg	76.5	382
91-58-7	2-Chloronaphthalene	U	38.2	ug/kg	12.6	38.2
88-74-4	2-Nitroaniline	U	382	ug/kg	76.5	382
99-09-2	o-Nitroaniline					
	3-Nitroaniline	U	382	ug/kg	76.5	382

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434004	Date Received: 02/06/2010 09:15	%Moisture: 13
Client ID: RE15-10-8353	Client: LANL010	Project: LANL01004
Batch ID: 951989	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/21/2010 13:10	Inst: MSD4.I	Dilution: 1
Prep Date: 02/11/2010 22:25	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4b2110.d	Allquot: 30.05 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	382	ug/kg	76.5	382
606-20-2	2,6-Dinitrotoluene	U	382	ug/kg	38.2	382
208-96-8	Acenaphthylene	U	38.2	ug/kg	11.5	38.2
51-28-5	2,4-Dinitrophenol	U	765	ug/kg	145	765
132-64-9	Dibenzofuran	U	382	ug/kg	76.5	382
84-66-2	Diethylphthalate	U	382	ug/kg	76.5	382
86-73-7	Fluorene	U	38.2	ug/kg	11.5	38.2
7005-72-3	4-Chlorophenylphenylether	U	382	ug/kg	76.5	382
534-52-1	2-Methyl-4,6-dinitrophenol	U	382	ug/kg	76.5	382 UJ,SV7c
100-01-6	4-Nitroaniline	U	382	ug/kg	115	382
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	382	ug/kg	76.5	382
122-66-7	Azobenzene	U	382	ug/kg	76.5	382
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	382	ug/kg	76.5	382
118-74-1	Hexachlorobenzene	U	382	ug/kg	76.5	382
85-01-8	Phenanthrene	U	38.2	ug/kg	11.5	38.2
120-12-7	Anthracene	U	38.2	ug/kg	7.65	38.2
84-74-2	Di-n-butylphthalate	U	382	ug/kg	76.5	382
206-44-0	Fluoranthene	U	38.2	ug/kg	11.5	38.2
85-68-7	Butylbenzylphthalate	U	382	ug/kg	76.5	382
56-55-3	Benzo(a)anthracene	U	38.2	ug/kg	11.5	38.2
91-94-1	3,3'-Dichlorobenzidine	U	382	ug/kg	115	382
218-01-9	Chrysene	U	38.2	ug/kg	11.5	38.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	382	ug/kg	76.5	382
117-84-0	Di-n-octylphthalate	U	382	ug/kg	76.5	382
205-99-2	Benzo(b)fluoranthene	U	38.2	ug/kg	11.5	38.2
207-08-9	Benzo(k)fluoranthene	U	38.2	ug/kg	11.5	38.2
50-32-8	Benzo(a)pyrene	U	38.2	ug/kg	11.5	38.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	38.2	ug/kg	11.5	38.2
53-70-3	Dibenzo(a,h)anthracene	U	38.2	ug/kg	11.5	38.2
191-24-2	Benzo(ghi)perylene	U	38.2	ug/kg	11.5	38.2
120-82-1	1,2,4-Trichlorobenzene	U	382	ug/kg	76.5	382

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.05	679	ug/kg		J
	Unknown Aldol Condensate	2.94	468	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434004	Date Received: 02/06/2010 09:15	%Moisture: 13
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8353	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 13:10	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.05 g	Final Volume: 1 mL
Data File: s4b2110.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
7785-70-8	1R-.alpha.-Pinene	3.47	639	ug/kg	95	NJ
498-15-7	Bicyclo[4.1.0]hept-3-ene, 3,7,7-trimethy	3.86	599	ug/kg	97	NJ
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.75	198	ug/kg	99	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434002

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Allquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 22
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8354
Batch ID: 951989
Run Date: 02/20/2010 19:58
Prep Date: 02/11/2010 22:25
Data File: s4b2026.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	427	ug/kg	85.4	427
108-95-2	Phenol	U	427	ug/kg	85.4	427
95-57-8	2-Chlorophenol	U	427	ug/kg	85.4	427
106-46-7	1,4-Dichlorobenzene	U	427	ug/kg	85.4	427
621-64-7	N-Nitrosodipropylamine	U	427	ug/kg	85.4	427
59-50-7	4-Chloro-3-methylphenol	U	427	ug/kg	85.4	427
83-32-9	Acenaphthene	U	42.7	ug/kg	14.1	42.7
121-14-2	2,4-Dinitrotoluene	U	427	ug/kg	42.7	427
100-02-7	4-Nitrophenol	U	427	ug/kg	141	427
87-86-5	Pentachlorophenol	U	427	ug/kg	107	427
129-00-0	Pyrene	U	42.7	ug/kg	12.8	42.7
110-86-1	Pyridine	U	427	ug/kg	85.4	427 UJ,SV7c
62-53-3	Aniline	U	427	ug/kg	128	427
111-44-4	bis(2-Chloroethyl) ether	U	427	ug/kg	85.4	427
541-73-1	1,3-Dichlorobenzene	U	427	ug/kg	85.4	427
100-51-6	Benzyl alcohol	U	427	ug/kg	128	427
95-50-1	1,2-Dichlorobenzene	U	427	ug/kg	85.4	427
108-60-1	bis(2-Chloroisopropyl)ether	U	427	ug/kg	85.4	427
95-48-7	o-Cresol	U	427	ug/kg	85.4	427
65794-96-9	m,p-Cresols	U	427	ug/kg	128	427
67-72-1	Hexachloroethane	U	427	ug/kg	85.4	427
98-95-3	Nitrobenzene	U	427	ug/kg	85.4	427
78-59-1	Isophorone	U	427	ug/kg	85.4	427
88-75-5	2-Nitrophenol	U	427	ug/kg	85.4	427
105-67-9	2,4-Dimethylphenol	U	427	ug/kg	149	427
111-91-1	bis(2-Chloroethoxy)methane	U	427	ug/kg	85.4	427
120-83-2	2,4-Dichlorophenol	U	427	ug/kg	85.4	427
65-85-0	Benzoic acid	U	854	ug/kg	214	854
91-20-3	Naphthalene	U	42.7	ug/kg	12.8	42.7
106-47-8	4-Chloroaniline	U	427	ug/kg	85.4	427
87-68-3	Hexachlorobutadiene	U	427	ug/kg	85.4	427
91-57-6	2-Methylnaphthalene	U	42.7	ug/kg	8.54	42.7
77-47-4	Hexachlorocyclopentadiene	U	427	ug/kg	85.4	427
88-06-2	2,4,6-Trichlorophenol	U	427	ug/kg	85.4	427
95-95-4	2,4,5-Trichlorophenol	U	427	ug/kg	85.4	427
91-58-7	2-Chloronaphthalene	U	42.7	ug/kg	14.1	42.7
88-74-4	2-Nitroaniline	U	427	ug/kg	85.4	427
99-09-2	o-Nitroaniline 3-Nitroaniline	U	427	ug/kg	85.4	427

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434002	Date Received: 02/06/2010 09:15	%Moisture: 22
Client ID: RE15-10-8354	Client: LANL010	Project: LANL01004
Batch ID: 951989	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/20/2010 19:58	Inst: MSD4.I	Dilution: 1
Prep Date: 02/11/2010 22:25	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4b2026.d	Aliquot: 30.03 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	427	ug/kg	85.4	427
606-20-2	2,6-Dinitrotoluene	U	427	ug/kg	42.7	427
208-96-8	Acenaphthylene	U	42.7	ug/kg	12.8	42.7
51-28-5	2,4-Dinitrophenol	U	854	ug/kg	162	854
132-64-9	Dibenzofuran	U	427	ug/kg	85.4	427
84-66-2	Diethylphthalate	U	427	ug/kg	85.4	427
86-73-7	Fluorene	U	42.7	ug/kg	12.8	42.7
7005-72-3	4-Chlorophenylphenylether	U	427	ug/kg	85.4	427
534-52-1	2-Methyl-4,6-dinitrophenol	U	427	ug/kg	85.4	427 UJ,SV7c
100-01-6	4-Nitroaniline	U	427	ug/kg	128	427
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	427	ug/kg	85.4	427
122-66-7	Azobenzene	U	427	ug/kg	85.4	427
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	427	ug/kg	85.4	427
118-74-1	Hexachlorobenzene	U	427	ug/kg	85.4	427
85-01-8	Phenanthrene	U	42.7	ug/kg	12.8	42.7
120-12-7	Anthracene	U	42.7	ug/kg	8.54	42.7
84-74-2	Di-n-butylphthalate	U	427	ug/kg	85.4	427
206-44-0	Fluoranthene	U	42.7	ug/kg	12.8	42.7
85-68-7	Butylbenzylphthalate	U	427	ug/kg	85.4	427
56-55-3	Benzo(a)anthracene	U	42.7	ug/kg	12.8	42.7
91-94-1	3,3'-Dichlorobenzidine	U	427	ug/kg	128	427
218-01-9	Chrysene	U	42.7	ug/kg	12.8	42.7
117-81-7	bis(2-Ethylhexyl)phthalate	U	427	ug/kg	85.4	427
117-84-0	Di-n-octylphthalate	U	427	ug/kg	85.4	427
205-99-2	Benzo(b)fluoranthene	U	42.7	ug/kg	12.8	42.7
207-08-9	Benzo(k)fluoranthene	U	42.7	ug/kg	12.8	42.7
50-32-8	Benzo(a)pyrene	U	42.7	ug/kg	12.8	42.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	42.7	ug/kg	12.8	42.7
53-70-3	Dibenzo(a,h)anthracene	U	42.7	ug/kg	12.8	42.7
191-24-2	Benzo(ghi)perylene	U	42.7	ug/kg	12.8	42.7
120-82-1	1,2,4-Trichlorobenzene	U	427	ug/kg	85.4	427

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.96	278	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434006

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15

Matrix: R
%Moisture: 12.7

Client ID: RE15-10-8355
Batch ID: 951989
Run Date: 02/21/2010 13:32
Prep Date: 02/11/2010 22:25
Data File: s4b2111.d

Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.02 g
Column: J&W DB-5MS

Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	382	ug/kg	76.3	382
108-95-2	Phenol	U	382	ug/kg	76.3	382
95-57-8	2-Chlorophenol	U	382	ug/kg	76.3	382
106-46-7	1,4-Dichlorobenzene	U	382	ug/kg	76.3	382
621-64-7	N-Nitrosodipropylamine	U	382	ug/kg	76.3	382 UJ,SV7c
59-50-7	4-Chloro-3-methylphenol	U	382	ug/kg	76.3	382
83-32-9	Acenaphthene	U	38.2	ug/kg	12.6	38.2
121-14-2	2,4-Dinitrotoluene	U	382	ug/kg	38.2	382
100-02-7	4-Nitrophenol	U	382	ug/kg	126	382
87-86-5	Pentachlorophenol	U	382	ug/kg	95.4	382
129-00-0	Pyrene	U	38.2	ug/kg	11.4	38.2
110-86-1	Pyridine	U	382	ug/kg	76.3	382 UJ,SV7c
62-53-3	Aniline	U	382	ug/kg	114	382
111-44-4	bis(2-Chloroethyl) ether	U	382	ug/kg	76.3	382 UJ,SV7c
541-73-1	1,3-Dichlorobenzene	U	382	ug/kg	76.3	382
100-51-6	Benzyl alcohol	U	382	ug/kg	114	382
95-50-1	1,2-Dichlorobenzene	U	382	ug/kg	76.3	382
108-60-1	bis(2-Chloroisopropyl)ether	U	382	ug/kg	76.3	382 UJ,SV7c
95-48-7	o-Cresol	U	382	ug/kg	76.3	382
65794-96-9	m,p-Cresols	U	382	ug/kg	114	382
67-72-1	Hexachloroethane	U	382	ug/kg	76.3	382
98-95-3	Nitrobenzene	U	382	ug/kg	76.3	382
78-59-1	Isophorone	U	382	ug/kg	76.3	382
88-75-5	2-Nitrophenol	U	382	ug/kg	76.3	382
105-67-9	2,4-Dimethylphenol	U	382	ug/kg	134	382
111-91-1	bis(2-Chloroethoxy)methane	U	382	ug/kg	76.3	382
120-83-2	2,4-Dichlorophenol	U	382	ug/kg	76.3	382
65-85-0	Benzoic acid	U	763	ug/kg	191	763
91-20-3	Naphthalene	U	38.2	ug/kg	11.4	38.2
106-47-8	4-Chloroaniline	U	382	ug/kg	76.3	382
87-68-3	Hexachlorobutadiene	U	382	ug/kg	76.3	382
91-57-6	2-Methylnaphthalene	U	38.2	ug/kg	7.63	38.2
77-47-4	Hexachlorocyclopentadiene	U	382	ug/kg	76.3	382
88-06-2	2,4,6-Trichlorophenol	U	382	ug/kg	76.3	382
95-95-4	2,4,5-Trichlorophenol	U	382	ug/kg	76.3	382
91-58-7	2-Chloronaphthalene	U	38.2	ug/kg	12.6	38.2
88-74-4	2-Nitroaniline	U	382	ug/kg	76.3	382
99-09-2	o-Nitroaniline	U	382	ug/kg	76.3	382
	3-Nitroaniline	U	382	ug/kg	76.3	382

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434006

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.02 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 12.7
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	382	ug/kg	76.3	382
606-20-2	2,6-Dinitrotoluene	U	382	ug/kg	38.2	382
208-96-8	Acenaphthylene	U	38.2	ug/kg	11.4	38.2
51-28-5	2,4-Dinitrophenol	U	763	ug/kg	145	763
132-64-9	Dibenzofuran	U	382	ug/kg	76.3	382
84-66-2	Diethylphthalate	U	382	ug/kg	76.3	382
86-73-7	Fluorene	U	38.2	ug/kg	11.4	38.2
7005-72-3	4-Chlorophenylphenylether	U	382	ug/kg	76.3	382
534-52-1	2-Methyl-4,6-dinitrophenol	U	382	ug/kg	76.3	38. UJ,SV7c
100-01-6	4-Nitroaniline	U	382	ug/kg	114	382
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	382	ug/kg	76.3	382
122-66-7	Azobenzene	U	382	ug/kg	76.3	382
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	382	ug/kg	76.3	382
118-74-1	Hexachlorobenzene	U	382	ug/kg	76.3	382
85-01-8	Phenanthrene	U	38.2	ug/kg	11.4	38.2
120-12-7	Anthracene	U	38.2	ug/kg	7.63	38.2
84-74-2	Di-n-butylphthalate	U	382	ug/kg	76.3	382
206-44-0	Fluoranthene	U	38.2	ug/kg	11.4	38.2
85-68-7	Butylbenzylphthalate	U	382	ug/kg	76.3	382
56-55-3	Benzo(a)anthracene	U	38.2	ug/kg	11.4	38.2
91-94-1	3,3'-Dichlorobenzidine	U	382	ug/kg	114	382
218-01-9	Chrysene	U	38.2	ug/kg	11.4	38.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	382	ug/kg	76.3	382
117-84-0	Di-n-octylphthalate	U	382	ug/kg	76.3	382
205-99-2	Benzo(b)fluoranthene	U	38.2	ug/kg	11.4	38.2
207-08-9	Benzo(k)fluoranthene	U	38.2	ug/kg	11.4	38.2
50-32-8	Benzo(a)pyrene	U	38.2	ug/kg	11.4	38.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	38.2	ug/kg	11.4	38.2
53-70-3	Dibenzo(a,h)anthracene	U	38.2	ug/kg	11.4	38.2
191-24-2	Benzo(ghi)perylene	U	38.2	ug/kg	11.4	38.2
120-82-1	1,2,4-Trichlorobenzene	U	382	ug/kg	76.3	382

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.06	395	ug/kg		J
	Unknown Aldol Condensate	2.94	423	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434006	Date Received: 02/06/2010 09:15	%Moisture: 12.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8355	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 13:32	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Allquot: 30.02 g	Final Volume: 1 mL
Data File: s4b2111.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.75	261	ug/kg	99	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434003	Date Received: 02/06/2010 09:15	%Moisture: 14.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8356	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/20/2010 20:20	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.14 g	Final Volume: 1 mL
Data File: s4b2027.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	389	ug/kg	77.8	389
108-95-2	Phenol	U	389	ug/kg	77.8	389
95-57-8	2-Chlorophenol	U	389	ug/kg	77.8	389
106-46-7	1,4-Dichlorobenzene	U	389	ug/kg	77.8	389
621-64-7	N-Nitrosodipropylamine	U	389	ug/kg	77.8	389
59-50-7	4-Chloro-3-methylphenol	U	389	ug/kg	77.8	389
83-32-9	Acenaphthene	U	38.9	ug/kg	12.8	38.9
121-14-2	2,4-Dinitrotoluene	U	389	ug/kg	38.9	389
100-02-7	4-Nitrophenol	U	389	ug/kg	128	389
87-86-5	Pentachlorophenol	U	389	ug/kg	97.2	389
129-00-0	Pyrene	U	38.9	ug/kg	11.7	38.9
110-86-1	Pyridine	U	389	ug/kg	77.8	389 UJ,SV7c
62-53-3	Aniline	U	389	ug/kg	117	389
111-44-4	bis(2-Chloroethyl) ether	U	389	ug/kg	77.8	389
541-73-1	1,3-Dichlorobenzene	U	389	ug/kg	77.8	389
100-51-6	Benzyl alcohol	U	389	ug/kg	117	389
95-50-1	1,2-Dichlorobenzene	U	389	ug/kg	77.8	389
108-60-1	bis(2-Chloroisopropyl)ether	U	389	ug/kg	77.8	389
95-48-7	o-Cresol	U	389	ug/kg	77.8	389
65794-96-9	m,p-Cresols	U	389	ug/kg	117	389
67-72-1	Hexachloroethane	U	389	ug/kg	77.8	389
98-95-3	Nitrobenzene	U	389	ug/kg	77.8	389
78-59-1	Isophorone	U	389	ug/kg	77.8	389
88-75-5	2-Nitrophenol	U	389	ug/kg	77.8	389
105-67-9	2,4-Dimethylphenol	U	389	ug/kg	136	389
111-91-1	bis(2-Chloroethoxy)methane	U	389	ug/kg	77.8	389
120-83-2	2,4-Dichlorophenol	U	389	ug/kg	77.8	389
65-85-0	Benzoic acid	U	778	ug/kg	194	778
91-20-3	Naphthalene	U	38.9	ug/kg	11.7	38.9
106-47-8	4-Chloroaniline	U	389	ug/kg	77.8	389
87-68-3	Hexachlorobutadiene	U	389	ug/kg	77.8	389
91-57-6	2-Methylnaphthalene	U	38.9	ug/kg	7.78	38.9
77-47-4	Hexachlorocyclopentadiene	U	389	ug/kg	77.8	389
88-06-2	2,4,6-Trichlorophenol	U	389	ug/kg	77.8	389
95-95-4	2,4,5-Trichlorophenol	U	389	ug/kg	77.8	389
91-58-7	2-Chloronaphthalene	U	38.9	ug/kg	12.8	38.9
88-74-4	2-Nitroaniline	U	389	ug/kg	77.8	389
99-09-2	o-Nitroaniline					
	3-Nitroaniline	U	389	ug/kg	77.8	389

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434003	Date Received: 02/06/2010 09:15	%Moisture: 14.7
Client ID: RE15-10-8356	Client: LANL010	Project: LANL01004
Batch ID: 951989	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/20/2010 20:20	Inst: MSD4.I	Dilution: 1
Prep Date: 02/11/2010 22:25	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4b2027.d	Aliquot: 30.14 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
606-20-2	Dimethylphthalate	U	389	ug/kg	77.8	389
208-96-8	2,6-Dinitrotoluene	U	389	ug/kg	38.9	389
51-28-5	Acenaphthylene	U	38.9	ug/kg	11.7	38.9
132-64-9	2,4-Dinitrophenol	U	778	ug/kg	148	778
84-66-2	Dibenzofuran	U	389	ug/kg	77.8	389
86-73-7	Diethylphthalate	U	389	ug/kg	77.8	389
86-73-7	Fluorene	U	38.9	ug/kg	11.7	38.9
7005-72-3	4-Chlorophenylphenylether	U	389	ug/kg	77.8	389
534-52-1	2-Methyl-4,6-dinitrophenol	U	389	ug/kg	77.8	389 UJ,SV7c
100-01-6	4-Nitroaniline	U	389	ug/kg	117	389
122-39-4	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	389	ug/kg	77.8	389
122-66-7	Azobenzene	U	389	ug/kg	77.8	389
101-55-3	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	389	ug/kg	77.8	389
118-74-1	Hexachlorobenzene	U	389	ug/kg	77.8	389
85-01-8	Phenanthrene	U	38.9	ug/kg	11.7	38.9
120-12-7	Anthracene	U	38.9	ug/kg	7.78	38.9
84-74-2	Di-n-butylphthalate	U	389	ug/kg	77.8	389
206-44-0	Fluoranthene	U	38.9	ug/kg	11.7	38.9
85-68-7	Butylbenzylphthalate	U	389	ug/kg	77.8	389
56-55-3	Benzo(a)anthracene	U	38.9	ug/kg	11.7	38.9
91-94-1	3,3'-Dichlorobenzidine	U	389	ug/kg	117	389
218-01-9	Chrysene	U	38.9	ug/kg	11.7	38.9
117-81-7	bis(2-Ethylhexyl)phthalate	U	389	ug/kg	77.8	389
117-84-0	Di-n-octylphthalate	U	389	ug/kg	77.8	389
205-99-2	Benzo(b)fluoranthene	U	38.9	ug/kg	11.7	38.9
207-08-9	Benzo(k)fluoranthene	U	38.9	ug/kg	11.7	38.9
50-32-8	Benzo(a)pyrene	U	38.9	ug/kg	11.7	38.9
193-39-5	Indeno(1,2,3-cd)pyrene	U	38.9	ug/kg	11.7	38.9
53-70-3	Dibenzo(a,h)anthracene	U	38.9	ug/kg	11.7	38.9
191-24-2	Benzo(ghi)perylene	U	38.9	ug/kg	11.7	38.9
120-82-1	1,2,4-Trichlorobenzene	U	389	ug/kg	77.8	389

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.97	625	ug/kg		J
7785-70-8	1R- α -Pinene	3.5	345	ug/kg	95	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434003	Date Received: 02/06/2010 09:15	%Moisture: 14.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8356	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/20/2010 20:20	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.14 g	Final Volume: 1 mL
Data File: s4b2027.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary			Estimated			
CAS No.	Tentatively Identified Compound (TIC)	RT		Units	Fit	Qual
87-44-5	Caryophyllene	5.79	254	ug/kg	94	NJ
23070-53-3	Cyclododecene, 1-methyl-	6.85	173	ug/kg	89	NJ
57-10-3	n-Hexadecanoic acid	7.29	466	ug/kg	99	NJ
	Unknown	7.49	217	ug/kg		J
112-79-8	9-Octadecenoic acid, (E)-	7.72	740	ug/kg	99	NJ
	Unknown	7.84	210	ug/kg		J
	Unknown	7.91	1040	ug/kg		J
	Unknown	8.11	1260	ug/kg		J
	Unknown	8.14	347	ug/kg		J
1686-62-0	1-Phenanthrenecarboxylic acid, 7-ethenyl	8.21	1070	ug/kg	96	NJ
	Unknown	8.3	2210	ug/kg		J
1000159-38-2	Bicyclo[5.2.0]nonane, 4-methylene-2,8,8-	8.4	315	ug/kg	83	NJ
	Unknown	8.49	3310	ug/kg		J
1740-19-8	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	8.55	1210	ug/kg	93	NJ
	Unknown	8.65	1370	ug/kg		J
	Unknown	8.69	646	ug/kg		J
	Unknown	8.77	824	ug/kg		J
	Unknown	8.9	609	ug/kg		J
	Unknown	9.01	631	ug/kg		J
	Unknown	9.11	1150	ug/kg		J
	Unknown	9.19	946	ug/kg		J
1000159-38-2	Bicyclo[5.2.0]nonane, 4-methylene-2,8,8-	9.23	308	ug/kg	83	NJ
112-95-8	Eicosane	9.69	456	ug/kg	97	NJ
	Unknown	10.59	666	ug/kg		J
	Unknown	10.75	2900	ug/kg		J
	Unknown	11.09	673	ug/kg		J
1000214-20-7	Stigmasterol, 22,23-dihydro-	12.74	2970	ug/kg	99	NJ
1058-61-3	Stigmast-4-en-3-one	13.93	1790	ug/kg	96	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434009

Client ID: RE15-10-8357
Batch ID: 951989
Run Date: 02/21/2010 14:40
Prep Date: 02/11/2010 22:25
Data File: s4b2114.d

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.12 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	353	ug/kg	70.6	353
108-95-2	Phenol	U	353	ug/kg	70.6	353
95-57-8	2-Chlorophenol	U	353	ug/kg	70.6	353
106-46-7	1,4-Dichlorobenzene	U	353	ug/kg	70.6	353
621-64-7	N-Nitrosodipropylamine	U	353	ug/kg	70.6	353 UJ,SV7c
59-50-7	4-Chloro-3-methylphenol	U	353	ug/kg	70.6	353
83-32-9	Acenaphthene	U	35.3	ug/kg	11.6	35.3
121-14-2	2,4-Dinitrotoluene	U	353	ug/kg	35.3	353
100-02-7	4-Nitrophenol	U	353	ug/kg	116	353
87-86-5	Pentachlorophenol	U	353	ug/kg	88.3	353
129-00-0	Pyrene	U	35.3	ug/kg	10.6	35.3
110-86-1	Pyridine	U	353	ug/kg	70.6	353 UJ,SV7c
62-53-3	Aniline	U	353	ug/kg	106	353
111-44-4	bis(2-Chloroethyl) ether	U	353	ug/kg	70.6	353 UJ,SV7c
541-73-1	1,3-Dichlorobenzene	U	353	ug/kg	70.6	353
100-51-6	Benzyl alcohol	U	353	ug/kg	106	353
95-50-1	1,2-Dichlorobenzene	U	353	ug/kg	70.6	353
108-60-1	bis(2-Chloroisopropyl)ether	U	353	ug/kg	70.6	353 UJ,SV7c
95-48-7	o-Cresol	U	353	ug/kg	70.6	353
65794-96-9	m,p-Cresols	U	353	ug/kg	106	353
67-72-1	Hexachloroethane	U	353	ug/kg	70.6	353
98-95-3	Nitrobenzene	U	353	ug/kg	70.6	353
78-59-1	Isophorone	U	353	ug/kg	70.6	353
88-75-5	2-Nitrophenol	U	353	ug/kg	70.6	353
105-67-9	2,4-Dimethylphenol	U	353	ug/kg	124	353
111-91-1	bis(2-Chloroethoxy)methane	U	353	ug/kg	70.6	353
120-83-2	2,4-Dichlorophenol	U	353	ug/kg	70.6	353
65-85-0	Benzoic acid	U	706	ug/kg	177	706
91-20-3	Naphthalene	U	35.3	ug/kg	10.6	35.3
106-47-8	4-Chloroaniline	U	353	ug/kg	70.6	353
87-68-3	Hexachlorobutadiene	U	353	ug/kg	70.6	353
91-57-6	2-Methylnaphthalene	U	35.3	ug/kg	7.06	35.3
77-47-4	Hexachlorocyclopentadiene	U	353	ug/kg	70.6	353
88-06-2	2,4,6-Trichlorophenol	U	353	ug/kg	70.6	353
95-95-4	2,4,5-Trichlorophenol	U	353	ug/kg	70.6	353
91-58-7	2-Chloronaphthalene	U	35.3	ug/kg	11.6	35.3
88-74-4	2-Nitroaniline	U	353	ug/kg	70.6	353
99-09-2	o-Nitroaniline					
	3-Nitroaniline	U	353	ug/kg	70.6	353

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434009	Date Received: 02/06/2010 09:15	%Moisture: 6
Client ID: RE15-10-8357	Client: LANL010	Project: LANL01004
Batch ID: 951989	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/21/2010 14:40	Inst: MSD4.I	Dilution: 1
Prep Date: 02/11/2010 22:25	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4b2114.d	Aliquot: 30.12 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
606-20-2	Dimethylphthalate	U	353	ug/kg	70.6	353
208-96-8	2,6-Dinitrotoluene	U	353	ug/kg	35.3	353
51-28-5	Acenaphthylene	U	35.3	ug/kg	10.6	35.3
132-64-9	2,4-Dinitrophenol	U	706	ug/kg	134	706
84-66-2	Dibenzofuran	U	353	ug/kg	70.6	353
86-73-7	Diethylphthalate	U	353	ug/kg	70.6	353
7005-72-3	Fluorene	U	35.3	ug/kg	10.6	35.3
534-52-1	4-Chlorophenylphenylether	U	353	ug/kg	70.6	353
100-01-6	2-Methyl-4,6-dinitrophenol	U	353	ug/kg	70.6	353 UJ,SV7c
122-39-4	4-Nitroaniline	U	353	ug/kg	106	353
122-66-7	<i>p</i> -Nitroaniline					
101-55-3	Diphenylamine	U	353	ug/kg	70.6	353
118-74-1	Azobenzene	U	353	ug/kg	70.6	353
120-12-7	<i>1,2</i> -Diphenylhydrazine					
85-01-8	4-Bromophenylphenylether	U	353	ug/kg	70.6	353
120-12-7	Hexachlorobenzene	U	353	ug/kg	70.6	353
84-74-2	Phenanthrene	U	35.3	ug/kg	10.6	35.3
206-44-0	Anthracene	U	35.3	ug/kg	7.06	35.3
85-68-7	Di-n-butylphthalate	U	353	ug/kg	70.6	353
56-55-3	Fluoranthene	U	35.3	ug/kg	10.6	35.3
91-94-1	Butylbenzylphthalate	U	353	ug/kg	70.6	353
218-01-9	Benzo(a)anthracene	U	35.3	ug/kg	10.6	35.3
117-81-7	3,3'-Dichlorobenzidine	U	353	ug/kg	106	353
117-84-0	Chrysene	U	35.3	ug/kg	10.6	35.3
205-99-2	bis(2-Ethylhexyl)phthalate	U	353	ug/kg	70.6	353
207-08-9	Di-n-octylphthalate	U	353	ug/kg	70.6	353
50-32-8	Benzo(b)fluoranthene	U	35.3	ug/kg	10.6	35.3
193-39-5	Benzo(k)fluoranthene	U	35.3	ug/kg	10.6	35.3
53-70-3	Benzo(a)pyrene	U	35.3	ug/kg	10.6	35.3
191-24-2	Indeno(1,2,3-cd)pyrene	U	35.3	ug/kg	10.6	35.3
120-82-1	Dibenzo(a,h)anthracene	U	35.3	ug/kg	10.6	35.3
	Benzo(ghi)perylene	U	35.3	ug/kg	10.6	35.3
	1,2,4-Trichlorobenzene	U	353	ug/kg	70.6	353

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown Aldol Condensate	2.94	483	ug/kg		J
	Unknown	5.16	229	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434009	Date Received: 02/06/2010 09:15	%Moisture: 6
Client ID: RE15-10-8357	Client: LANL010	Project: LANL01004
Batch ID: 951989	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/21/2010 14:40	Inst: MSD4.I	Dilution: 1
Prep Date: 02/11/2010 22:25	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4b2114.d	Aliquot: 30.12 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.75	153	ug/kg	99	NJ
	Unknown	8.26	243	ug/kg		J
	Unknown	10.7	189	ug/kg		J
83-47-6	.gamma.-Sitosterol	12.7	191	ug/kg	91	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434015	Date Received: 02/06/2010 09:15	%Moisture: 6.3
Client ID: RE15-10-8374	Client: LANL010	Project: LANL01004
Batch ID: 951989	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/21/2010 16:56	Inst: MSD4.I	Dilution: 1
Prep Date: 02/11/2010 22:25	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4b2120.d	Aliquot: 30.13 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	354	ug/kg	70.9	354
108-95-2	Phenol	U	354	ug/kg	70.9	354
95-57-8	2-Chlorophenol	U	354	ug/kg	70.9	354
106-46-7	1,4-Dichlorobenzene	U	354	ug/kg	70.9	354
621-64-7	N-Nitrosodipropylamine	U	354	ug/kg	70.9	354 UJ,SV7c
59-50-7	4-Chloro-3-methylphenol	U	354	ug/kg	70.9	354
83-32-9	Acenaphthene	U	35.4	ug/kg	11.7	35.4
121-14-2	2,4-Dinitrotoluene	U	354	ug/kg	35.4	354
100-02-7	4-Nitrophenol	U	354	ug/kg	117	354
87-86-5	Pentachlorophenol	U	354	ug/kg	88.6	354
129-00-0	Pyrene	U	35.4	ug/kg	10.6	35.4
110-86-1	Pyridine	U	354	ug/kg	70.9	354 UJ,SV7c
62-53-3	Aniline	U	354	ug/kg	106	354
111-44-4	bis(2-Chloroethyl) ether	U	354	ug/kg	70.9	354 UJ,SV7c
541-73-1	1,3-Dichlorobenzene	U	354	ug/kg	70.9	354
100-51-6	Benzyl alcohol	U	354	ug/kg	106	354
95-50-1	1,2-Dichlorobenzene	U	354	ug/kg	70.9	354
108-60-1	bis(2-Chloroisopropyl)ether	U	354	ug/kg	70.9	354 UJ,SV7c
95-48-7	o-Cresol	U	354	ug/kg	70.9	354
65794-96-9	m,p-Cresols	U	354	ug/kg	106	354
67-72-1	Hexachloroethane	U	354	ug/kg	70.9	354
98-95-3	Nitrobenzene	U	354	ug/kg	70.9	354
78-59-1	Isophorone	U	354	ug/kg	70.9	354
88-75-5	2-Nitrophenol	U	354	ug/kg	70.9	354
105-67-9	2,4-Dimethylphenol	U	354	ug/kg	124	354
111-91-1	bis(2-Chloroethoxy)methane	U	354	ug/kg	70.9	354
120-83-2	2,4-Dichlorophenol	U	354	ug/kg	70.9	354
65-85-0	Benzoic acid	U	709	ug/kg	177	709
91-20-3	Naphthalene	U	35.4	ug/kg	10.6	35.4
106-47-8	4-Chloroaniline	U	354	ug/kg	70.9	354
87-68-3	Hexachlorobutadiene	U	354	ug/kg	70.9	354
91-57-6	2-Methylnaphthalene	U	35.4	ug/kg	7.09	35.4
77-47-4	Hexachlorocyclopentadiene	U	354	ug/kg	70.9	354
88-06-2	2,4,6-Trichlorophenol	U	354	ug/kg	70.9	354
95-95-4	2,4,5-Trichlorophenol	U	354	ug/kg	70.9	354
91-58-7	2-Chloronaphthalene	U	35.4	ug/kg	11.7	35.4
88-74-4	2-Nitroaniline	U	354	ug/kg	70.9	354
99-09-2	o-Nitroaniline					
	3-Nitroaniline	U	354	ug/kg	70.9	354

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434015	Date Received: 02/06/2010 09:15	%Moisture: 6.3
Client ID: RE15-10-8374	Client: LANL010	Project: LANL01004
Batch ID: 951989	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/21/2010 16:56	Inst: MSD4.I	Dilution: 1
Prep Date: 02/11/2010 22:25	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4b2120.d	Allquot: 30.13 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parma name	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline	U	354	ug/kg	70.9	354
606-20-2	Dimethylphthalate	U	354	ug/kg	35.4	354
208-96-8	2,6-Dinitrotoluene	U	35.4	ug/kg	10.6	35.4
51-28-5	Acenaphthylene	U	709	ug/kg	135	709
132-64-9	2,4-Dinitrophenol	U	354	ug/kg	70.9	354
84-66-2	Dibenzofuran	U	354	ug/kg	70.9	354
86-73-7	Diethylphthalate	U	35.4	ug/kg	10.6	35.4
7005-72-3	Fluorene	U	354	ug/kg	70.9	354
534-52-1	4-Chlorophenylphenylether	U	354	ug/kg	70.9	354
100-01-6	2-Methyl-4,6-dinitrophenol	U	354	ug/kg	70.9	354 UJ,SV7c
122-39-4	4-Nitroaniline	U	354	ug/kg	106	354
122-66-7	<i>p</i> -Nitroaniline	U	354	ug/kg	70.9	354
101-55-3	Diphenylamine	U	354	ug/kg	70.9	354
118-74-1	Azobenzene	U	354	ug/kg	70.9	354
117-81-7	<i>1,2</i> -Diphenylhydrazine	U	354	ug/kg	70.9	354
85-01-8	4-Bromophenylphenylether	U	354	ug/kg	70.9	354
120-12-7	Hexachlorobenzene	U	35.4	ug/kg	10.6	35.4
84-74-2	Phenanthrene	U	35.4	ug/kg	7.09	35.4
206-44-0	Anthracene	U	354	ug/kg	70.9	354
85-68-7	Di-n-butylphthalate	U	35.4	ug/kg	10.6	35.4
56-55-3	Fluoranthene	U	354	ug/kg	70.9	354
91-94-1	Butylbenzylphthalate	U	35.4	ug/kg	10.6	35.4
218-01-9	Benzo(a)anthracene	U	354	ug/kg	106	354
117-81-7	3,3'-Dichlorobenzidine	U	35.4	ug/kg	10.6	35.4
117-84-0	Chrysene	U	354	ug/kg	70.9	354
205-99-2	bis(2-Ethylhexyl)phthalate	U	354	ug/kg	70.9	354
207-08-9	Di-n-octylphthalate	U	35.4	ug/kg	10.6	35.4
50-32-8	Benzo(b)fluoranthene	U	35.4	ug/kg	10.6	35.4
193-39-5	Benzo(k)fluoranthene	U	35.4	ug/kg	10.6	35.4
53-70-3	Benzo(a)pyrene	U	35.4	ug/kg	10.6	35.4
191-24-2	Indeno(1,2,3-cd)pyrene	U	35.4	ug/kg	10.6	35.4
120-82-1	Dibenzo(a,h)anthracene	U	35.4	ug/kg	10.6	35.4
	Benzo(ghi)perylene	U	354	ug/kg	70.9	354
	1,2,4-Trichlorobenzene	U	354	ug/kg	70.9	354

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown	2.05	726	ug/kg		J
	Unknown Aldol Condensate	2.94	398	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
Lab Sample ID: 246434014

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.07 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 19.7
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	414	ug/kg	82.9	414
108-95-2	Phenol	U	414	ug/kg	82.9	414
95-57-8	2-Chlorophenol	U	414	ug/kg	82.9	414
106-46-7	1,4-Dichlorobenzene	U	414	ug/kg	82.9	414
621-64-7	N-Nitrosodipropylamine	U	414	ug/kg	82.9	414 UJ,SV7c
59-50-7	4-Chloro-3-methylphenol	U	414	ug/kg	82.9	414
83-32-9	Acenaphthene	U	41.4	ug/kg	13.7	41.4
121-14-2	2,4-Dinitrotoluene	U	414	ug/kg	41.4	414
100-02-7	4-Nitrophenol	U	414	ug/kg	137	414
87-86-5	Pentachlorophenol	U	414	ug/kg	104	414
129-00-0	Pyrene	U	41.4	ug/kg	12.4	41.4
110-86-1	Pyridine	U	414	ug/kg	82.9	414 UJ,SV7c
62-53-3	Aniline	U	414	ug/kg	124	414
111-44-4	bis(2-Chloroethyl) ether	U	414	ug/kg	82.9	414 UJ,SV7c
541-73-1	1,3-Dichlorobenzene	U	414	ug/kg	82.9	414
100-51-6	Benzyl alcohol	U	414	ug/kg	124	414
95-50-1	1,2-Dichlorobenzene	U	414	ug/kg	82.9	414
108-60-1	bis(2-Chloroisopropyl) ether	U	414	ug/kg	82.9	414 UJ,SV7c
95-48-7	o-Cresol	U	414	ug/kg	82.9	414
65794-96-9	m,p-Cresols	U	414	ug/kg	124	414
67-72-1	Hexachloroethane	U	414	ug/kg	82.9	414
98-95-3	Nitrobenzene	U	414	ug/kg	82.9	414
78-59-1	Isophorone	U	414	ug/kg	82.9	414
88-75-5	2-Nitrophenol	U	414	ug/kg	82.9	414
105-67-9	2,4-Dimethylphenol	U	414	ug/kg	145	414
111-91-1	bis(2-Chloroethoxy)methane	U	414	ug/kg	82.9	414
120-83-2	2,4-Dichlorophenol	U	414	ug/kg	82.9	414
65-85-0	Benzoic acid	U	829	ug/kg	207	829
91-20-3	Naphthalene	U	41.4	ug/kg	12.4	41.4
106-47-8	4-Chloroaniline	U	414	ug/kg	82.9	414
87-68-3	Hexachlorobutadiene	U	414	ug/kg	82.9	414
91-57-6	2-Methylnaphthalene	U	41.4	ug/kg	8.29	41.4
77-47-4	Hexachlorocyclopentadiene	U	414	ug/kg	82.9	414
88-06-2	2,4,6-Trichlorophenol	U	414	ug/kg	82.9	414
95-95-4	2,4,5-Trichlorophenol	U	414	ug/kg	82.9	414
91-58-7	2-Chloronaphthalene	U	41.4	ug/kg	13.7	41.4
88-74-4	2-Nitroaniline	U	414	ug/kg	82.9	414
99-09-2	o-Nitroaniline					
	3-Nitroaniline	U	414	ug/kg	82.9	414

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434014

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Allquot: 30.07 g
Column: J&W DB-5MS


Matrix: R
%Moisture: 19.7
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8375
Batch ID: 951989
Run Date: 02/21/2010 16:33
Prep Date: 02/11/2010 22:25
Data File: s4b2119.d

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline	U	414	ug/kg	82.9	414
606-20-2	Dimethylphthalate	U	414	ug/kg	41.4	414
208-96-8	2,6-Dinitrotoluene	U	41.4	ug/kg	12.4	41.4
51-28-5	Acenaphthylene	U	829	ug/kg	157	829
132-64-9	2,4-Dinitrophenol	U	414	ug/kg	82.9	414
84-66-2	Dibenzofuran	U	414	ug/kg	82.9	414
86-73-7	Diethylphthalate	U	41.4	ug/kg	12.4	41.4
7005-72-3	Fluorene	U	414	ug/kg	82.9	414
534-52-1	4-Chlorophenylphenylether	U	414	ug/kg	82.9	414
100-01-6	2-Methyl-4,6-dinitrophenol	U	414	ug/kg	82.9	414 UJ,SV7c
122-39-4	4-Nitroaniline	U	414	ug/kg	124	414
122-66-7	<i>p</i> -Nitroaniline	U	414	ug/kg	82.9	414
101-55-3	Diphenylamine	U	414	ug/kg	82.9	414
118-74-1	Azobenzene	U	414	ug/kg	82.9	414
85-01-8	1,2-Diphenylhydrazine	U	414	ug/kg	82.9	414
120-12-7	4-Bromophenylphenylether	U	414	ug/kg	82.9	414
84-74-2	Hexachlorobenzene	U	41.4	ug/kg	12.4	41.4
206-44-0	Phenanthrene	U	41.4	ug/kg	8.29	41.4
85-68-7	Anthracene	U	414	ug/kg	82.9	414
56-55-3	Di-n-butylphthalate	U	41.4	ug/kg	12.4	41.4
91-94-1	Fluoranthene	U	414	ug/kg	82.9	414
218-01-9	Butylbenzylphthalate	U	41.4	ug/kg	12.4	41.4
117-81-7	Benzo(a)anthracene	U	414	ug/kg	124	414
117-84-0	3,3'-Dichlorobenzidine	U	41.4	ug/kg	12.4	41.4
205-99-2	Chrysene	U	414	ug/kg	82.9	414
207-08-9	bis(2-Ethylhexyl)phthalate	U	41.4	ug/kg	12.4	41.4
50-32-8	Di-n-octylphthalate	U	41.4	ug/kg	12.4	41.4
193-39-5	Benzo(b)fluoranthene	U	41.4	ug/kg	12.4	41.4
53-70-3	Benzo(k)fluoranthene	U	41.4	ug/kg	12.4	41.4
191-24-2	Benzo(a)pyrene	U	41.4	ug/kg	12.4	41.4
120-82-1	Indeno(1,2,3-cd)pyrene	U	41.4	ug/kg	12.4	41.4
	Dibenzo(a,h)anthracene	U	41.4	ug/kg	12.4	41.4
	Benzo(ghi)perylene	U	41.4	ug/kg	12.4	41.4
	1,2,4-Trichlorobenzene	U	414	ug/kg	82.9	414

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown Aldol Condensate	2.94	488	ug/kg		J

DATA VALIDATION COVER SHEET	
5122-1 <p style="text-align: center;">Data Validation Cover Sheet</p>	Records Use only 

Section I.

REQUEST NUMBER: 10-1620 VALIDATION DATE: 03/31/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Joanne Compton ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

<input type="checkbox"/> TPH-GRO	<input checked="" type="checkbox"/> HIGH EXPLOSIVES	<input type="checkbox"/> DIOXIN FURANS	<input type="checkbox"/> LCMSMS PERCHLORATES
<input type="checkbox"/> TPH-DRO	<input type="checkbox"/> METALS	<input type="checkbox"/> PCB CONGENERS	<input type="checkbox"/> ORGANOCHLORINE
<input type="checkbox"/> GENERAL CHEMISTRY	<input type="checkbox"/> RADIOCHEMISTRY	<input type="checkbox"/> LCMSMS HIGH EXPLOSIVES	<input type="checkbox"/> PESTICIDES/POLYCHLORINATED BIPHENYLS

☐ OTHER (DESCRIBE): _____

Section II. Completeness Check


YES	NO	N/A	(CHECK ONE)	YES	NO	N/A	(CHECK ONE)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. CHAIN-OF-CUSTODY FORM(S)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. RAW/BSS DATA
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. CASE NARRATIVE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. QUALITY CONTROL FORMS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. SAMPLE RESULT FORMS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8. QUANTITATION REPORTS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. SAMPLE CHROMATOGRAMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9. TICS FORMS
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. STANDARD CHROMATOGRAMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. TICS MASS SPECTRA

Comments/problems noted (include information about requests for further information submitted to the contract laboratory and agreed-upon date of resolution and contract laboratory point of contact):


1. The ICAL RRF was < 0.05 but ≥ 0.01 for p-nitrotoluene. The associated sample results were NDs and, thus, qualified UJ,HE7b.
2. The CCV %Ds were $> 20\%$ with positive bias for HMX, RDX, tetryl; 2,4-diamino-6-nitrotoluene; 2,6-diamino-4-nitrotoluene. The associated sample results were NDs and, thus, were not qualified.
3. It should be noted that the raw ICAL data from the instrument used for the secondary HE analysis were not reported in the data package. Thus, the surrogate RT criteria could not be evaluated. No sample data were qualified as a result.

Reviewed by: Mary Donovan Level: I Date: 04/01/10


VALIDATOR'S SIGNATURE: <u>Joanne Compton</u>	DATE: <u>03/31/10</u>
Form 5122-1, Revision 0.0	
LOS ALAMOS Environmental Restoration Project	

LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST	
5122-2 LC/MS/MS High Explosive Analytical Data Validation Checklist	Records Use only 


Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The IS retention time has shifted by more than 30 seconds.	R, UJ, HE0	J, HE0
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. Required IS retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE0b	R, HE0b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. The quantitating IS area count is <25% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation. Follow the method-specific windows.	R, HE1a	J, HE1a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. The IS area count for the quantitating IS is <70% but >25% of the average of that obtained from the calibration standards.	UJ, HE1b	J+, HE1b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standards.	UJ, HE1c	J-, HE1c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE1d	R, HE1d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The surrogate is <10%R. Follow the external laboratory limits.	R, HE3	J-, HE3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. The surrogate is < the Lower Acceptance Limit but ≥10% recovery. Follow the external laboratory limits.	UJ, HE3a	J-, HE3a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. The surrogate %R value is > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, HE3b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. At least one surrogate is > the Upper Acceptance Limit and one surrogate is < the Lower Acceptance Limit. Follow the external laboratory limits.	UJ, HE3c	J, HE3c

LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST	
5122-2 LC/MS/MS High Explosive Analytical Data Validation Checklist	Records Use only 

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11. Required surrogate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE3d	R, HE3d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12. The sample result is ≤ 5 times the concentration of the related analyte in the method blank.	U, HE4	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was $> 5x$.	N/A	J, HE4a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14. The sample result is ≤ 5 times the concentration of the related analyte in the trip blank, rinsate blank, and/or equipment blank.	U, HE4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE4e	R, HE4e
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	16. The absence of sample carry-over must be determined and verified.	N/A	R, N, HE4f
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, HE7	J, HE7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is less < 0.99 .	UJ, R, HE7a	J, HE7a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19. The affected analytes were analyzed with a RRF of < 0.05 in the initial calibration and/or CCV.	UJ, R, HE7b	J, HE7b
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20. The ICV and/or CCV were recovered outside the method limits.	UJ, R, HE7c	J, HE7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, R, HE7d	J, HE7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, HE7f	R, HE7f

LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST	
5122-2 LC/MS/MS High Explosive Analytical Data Validation Checklist	Records Use only 

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. The mass spectral documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE8a	R, HE8a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, HE9	J-, HE9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The holding time was >2 times the applicable holding time requirement.	R, HE9a	J-, HE9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The LCS percent recovery was <10%. Follow the external laboratory limits.	R, HE12	J-, HE12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory limits.	UJ, HE12a	J-, HE12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS percent recovery was > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, HE12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE12c	R, HE12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The MS/MSD percent recovery was <10%.	R, HE12d	R, HE12d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. The MS/MSD percent recovery was >10% but <70%.	UJ, HE12e	J, HE12e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	32. The MS/MSD percent recover was >70%.	N/A	J+, HE12f
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	33. The MS/MSD relative percent difference was >30%.	UJ, HE12g	J, HE12g
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	34. The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference. (Qualify as Reject if the analytical laboratory cannot provide proof for matrix interference.)	UJ, R, HE15	R, HE15
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	35. The sample was diluted because target analytes were > the initial verification calibration.	UJ, HE15a	J, HE15a

LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST	
5122-2 LC/MS/MS High Explosive Analytical Data Validation Checklist	Records Use only 

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	36. The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criteria.	UJ, R, HE16	J, HE16
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	37. The required CRI sample information is missing. Contact the SMO or external laboratory for information.	R, HE16c	R, HE16c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	38. The LANL project chemist identified quality deficiencies in the reported data that requires further qualification. This code can only be used and/or under advisement by the LANL project chemist.	UJ, R, HE19	J, R, HE19
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	39. Duplicate, dilution, or reanalysis.	UJ, HE88	J, HE88

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8354

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434002

Sample Amount 2

Moisture: 22.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323020a

Date Analyzed: 23-MAR-10 18:29

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

UJ,HE7b

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8354

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434002

Sample Amount 2

Moisture: 22.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010129.wiff

Date Analyzed: 02-MAR-10 18:38

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8356

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434003

Sample Amount 2

Moisture: 14.7

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323026a

Date Analyzed: 23-MAR-10 21:26

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8356

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434003

Sample Amount 2

Moisture: 14.7

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010132.wiff

Date Analyzed: 02-MAR-10 19:25

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8353

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434004

Sample Amount 2

Moisture: 13.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323027a

Date Analyzed: 23-MAR-10 21:55

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8353

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434004

Sample Amount 2

Moisture: 13.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010133.wiff

Date Analyzed: 02-MAR-10 19:41

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8352

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434005

Sample Amount 2

Moisture: 23.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323028a

Date Analyzed: 23-MAR-10 22:25

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene UJ,HE7b	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8352

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434005

Sample Amount 2

Moisture: 23.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010134.wiff

Date Analyzed: 02-MAR-10 19:57

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8355

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434006

Sample Amount 2

Moisture: 12.7

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 250086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323029a

Date Analyzed: 23-MAR-10 22:54

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8355

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434006

Sample Amount 2

Moisture: 12.7

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010135.wiff

Date Analyzed: 02-MAR-10 20:12

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8351

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434007

Sample Amount 2

Moisture: 15.1

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323030a

Date Analyzed: 23-MAR-10 23:24

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

UJ,HE7b

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8351

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434007

Sample Amount 2

Moisture: 15.1

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 250086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010136.wiff

Date Analyzed: 02-MAR-10 20:28

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8350

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434008

Sample Amount 2

Moisture: 23.1

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323031a

Date Analyzed: 23-MAR-10 23:53

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8350

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434008

Sample Amount 2

Moisture: 23.1

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010140.wiff

Date Analyzed: 02-MAR-10 21:31

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8357

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434009

Sample Amount 2

Molsture: 6.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 250086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323032a

Date Analyzed: 24-MAR-10 00:23

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8357

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434009

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010141.wiff

Date Analyzed: 02-MAR-10 21:47

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8338

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434010

Sample Amount 2

Moisture: 22.4

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 250086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323033a

Date Analyzed: 24-MAR-10 00:52

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene UJ,HE7b	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8338

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434010

Sample Amount 2

Moisture: 22.4

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010142.wiff

Date Analyzed: 02-MAR-10 22:03

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8336

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434011

Sample Amount 2

Moisture: 17.6

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323034a

Date Analyzed: 24-MAR-10 01:22

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

UJ,HE7b

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8336

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434011

Sample Amount 2

Moisture: 17.6

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010143.wiff

Date Analyzed: 02-MAR-10 22:18

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8339

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434012

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323035a

Date Analyzed: 24-MAR-10 01:51

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

UJ,HE7b

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8339

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434012

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010144.wiff

Date Analyzed: 02-MAR-10 22:34

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8337

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434013

Sample Amount 2

Moisture: 11.4

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323039a

Date Analyzed: 24-MAR-10 03:49

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	UJ,HE7b 500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8337

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434013

Sample Amount 2

Molsture: 11.4

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010145.wiff

Date Analyzed: 02-MAR-10 22:50

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8375

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434014

Sample Amount 2

Moisture: 12.7

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323040a

Date Analyzed: 24-MAR-10 04:19

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}} \times \text{Dilution Factor}$$

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8375

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434014

Sample Amount 2

Moisture: 19.7

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010146.wiff

Date Analyzed: 02-MAR-10 23:06

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8374

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434015

Sample Amount 2

Moisture: 6.3

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323041a

Date Analyzed: 24-MAR-10 04:48

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

UJ,HE7b

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8374

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434015

Sample Amount 2

Moisture: 6.3

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010147.wiff

Date Analyzed: 02-MAR-10 23:21

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

REQUEST NUMBER: 10-1620 VALIDATION DATE: 03/31/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Joanne Compton ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

- | | | | |
|---|--|--|--|
| <input type="checkbox"/> TPH-GRO | <input type="checkbox"/> HIGH EXPLOSIVES | <input type="checkbox"/> DIOXIN FURANS | <input type="checkbox"/> LCMSMS PERCHLORATES |
| <input type="checkbox"/> TPH-DRO | <input type="checkbox"/> METALS | <input type="checkbox"/> PCB CONGENERS | <input checked="" type="checkbox"/> ORGANOCHLORINE
PESTICIDES/POLYCHLORINATED BIPHENYLS |
| <input type="checkbox"/> GENERAL CHEMISTRY | <input type="checkbox"/> RADIOCHEMISTRY | <input type="checkbox"/> LCMSMS HIGH
EXPLOSIVES | |
| <input type="checkbox"/> OTHER (DESCRIBE): PCBs | | | |

YES	NO	N/A	(CHECK ONE)	YES	NO	N/A	(CHECK ONE)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. CHAIN-OF-CUSTODY FORM(S)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. RAW/BSS DATA
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. CASE NARRATIVE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. QUALITY CONTROL FORMS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. SAMPLE RESULT FORMS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8. QUANTITATION REPORTS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. SAMPLE CHROMATOGRAMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9. TICS FORMS
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. STANDARD CHROMATOGRAMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. TICS MASS SPECTRA

Comments/problems noted (include information about requests for further information submitted to the contract laboratory and agreed-upon date of resolution and contract laboratory point of contact):

1. The CCV %Ds for aroclor 1260 was >15% in bracketing CCVs on one column only. The associated sample results were NDs and, thus, not qualified.

Reviewed by: Mary Donovan Level: I Date: 04/01/10

VALIDATOR'S SIGNATURE:

DATE: 03/31/10

ORGANOCHLORINE PESTICIDE (PEST) AND POLYCHLORINATED BIPHENYL (PCB) ANALYTICAL DATA VALIDATION CHECKLIST

5116-2

Organochlorine Pesticide (PEST) and Polychlorinated Biphenyl (PCB) Analytical Data Validation Checklist

Records Use only



Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, P9	J-, P9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, P9	J-, P9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. The affected analytes are regarded as rejected because the analytical holding time was exceeded.	R, P9b	R, P9b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, R, P7	J, P7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.995.	UJ, P7a	J, P7a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. The Initial Calibration Verification (ICV) and/or Continuing Calibration Verification (CCV) were recovered outside the method-specific limits.	UJ, P7c	J, P7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, P7d	J, P7d
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	8. The multicomponent standard was not analyzed within 72 hours of the initial analysis.	R, P7e	J, P7e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, P7f	R, P7f
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. The breakdown criteria have been exceeded. This can cause low bias in reported results. If compound is detected, qualify J-. If compound is not present, but breakdown products are present, qualify R. If no compounds or breakdown products are present, qualify UJ (4,4' DDT and Endrin).	UJ, R, P13	J-, P13

ORGANOCHLORINE PESTICIDE (PEST) AND POLYCHLORINATED BIPHENYL (PCB) ANALYTICAL DATA VALIDATION CHECKLIST

5116-2

Organochlorine Pesticide (PEST) and Polychlorinated Biphenyl (PCB) Analytical Data Validation Checklist

Records Use only



Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11. The breakdown criteria have been exceeded. This can cause high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.	UJ, P13a	J+, P13a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12. The breakdown documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P13b	R, P13b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The sample result is $\leq 5X$ the concentration of the related analyte in the method blank.	U, P4	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5X.	N/A	J, P4a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15. The sample result is $\leq 5X$ the concentration of the related analyte in the instrument blank and continuing calibration blank.	UJ, P4b	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	16. The sample result is $\leq 5X$ the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	UJ, P4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P4e	R, P4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibration.	R, P0	J, P0
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. Required retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P0b	R, P0b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20. The surrogate is $<10\%R$. Follow the external laboratory limits located within the associated data package.	R, P3	J-, P3

ORGANOCHLORINE PESTICIDE (PEST) AND POLYCHLORINATED BIPHENYL (PCB) ANALYTICAL DATA VALIDATION CHECKLIST

5116-2

Organochlorine Pesticide (PEST) and Polychlorinated Biphenyl (PCB) Analytical Data Validation Checklist

Records Use only



Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The surrogate is < the Lower Acceptance Level (LAL) but $\geq 10\%R$. Follow the external laboratory limits located within the associated data package.	UJ, P3a	J-, P3a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. The surrogate %R value is > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, P3b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. At least one surrogate is > the Upper Acceptance Limit (UAL) and one surrogate is < the LAL. Follow the external laboratory limits located within the associated data package.	UJ, P3c	J, P3c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. Required surrogate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P3d	R, P3d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The LCS percent recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, P12	J-, P12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The LCS percent recovery was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.	UJ, P12a	J-, P12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The LCS percent recovery was > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, P12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P12c	R, P12c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	29. The analyte was not confirmed on a second dissimilar column.	N/A	R, P8
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	30. The second dissimilar column documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P8a	R, P8a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. Duplicate, Dilution, or reanalysis.	UJ, P88	J, P88

**ORGANOCHLORINE PESTICIDE (PEST) AND POLYCHLORINATED BIPHENYL (PCB)
ANALYTICAL DATA VALIDATION CHECKLIST**

5116-2

**Organochlorine Pesticide (PEST) and Polychlorinated
Biphenyl (PCB) Analytical Data Validation Checklist**

Records Use only



Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	32. The affected analytes have elevated detection limits and may not meet project DQOs because the sample was diluted without any target analytes identified due to matrix interference. Qualify as Reject if the analytical laboratory cannot provide proof for matrix interference.	UJ, R, P15	R, P15
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	33. Qualification of data via data validation did not occur based on Quality Control requirements in this procedure. Adhere to the external laboratory qualifiers found within the Form I analytical data summary sheets generated by the external laboratory.	U, U_LAB	J, J_LAB, NQ, NQ
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	34. The LANL project chemist identified quality deficiencies in the reported data that requires further qualification. This code can only be used and/or under advisement by the LANL project chemist.	UJ, R, P19	J, R, P19

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
Lab Sample ID: 246434011

Client ID: RE15-10-8336
Batch ID: 952059
Run Date: 02/15/2010 13:58
Prep Date: 02/12/2010 12:41
Data File: 039f3901.d
039b3901.d

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 17.6
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.04	ug/kg	1.35	4.04	1
11104-28-2	Aroclor-1221	U	4.04	ug/kg	1.35	4.04	1
11141-16-5	Aroclor-1232	U	4.04	ug/kg	1.35	4.04	1
53469-21-9	Aroclor-1242	U	4.04	ug/kg	1.35	4.04	1
12672-29-6	Aroclor-1248	U	4.04	ug/kg	1.35	4.04	1
11097-69-1	Aroclor-1254	U	4.04	ug/kg	1.35	4.04	1
11096-82-5	Aroclor-1260	U	4.04	ug/kg	1.35	4.04	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
Lab Sample ID: 246434013

Client ID: RE15-10-8337
Batch ID: 952059
Run Date: 02/15/2010 14:42
Prep Date: 02/12/2010 12:41
Data File: 043f4301.d
043b4301.d

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 11.4
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.76	ug/kg	1.25	3.76	1
11104-28-2	Aroclor-1221	U	3.76	ug/kg	1.25	3.76	1
11141-16-5	Aroclor-1232	U	3.76	ug/kg	1.25	3.76	1
53469-21-9	Aroclor-1242	U	3.76	ug/kg	1.25	3.76	1
12672-29-6	Aroclor-1248	U	3.76	ug/kg	1.25	3.76	1
11097-69-1	Aroclor-1254	U	3.76	ug/kg	1.25	3.76	1
11096-82-5	Aroclor-1260	U	3.76	ug/kg	1.25	3.76	1

PCB

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Certificate of Analysis
Sample SummarySDG Number: 10-1620
Lab Sample ID: 246434010Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8082
Inst: ECD1AJ
Analyst: YS1
Aliquot: 30.07 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 22.4
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.28	ug/kg	1.43	4.28	1
11104-28-2	Aroclor-1221	U	4.28	ug/kg	1.43	4.28	1
11141-16-5	Aroclor-1232	U	4.28	ug/kg	1.43	4.28	1
53469-21-9	Aroclor-1242	U	4.28	ug/kg	1.43	4.28	1
12672-29-6	Aroclor-1248	U	4.28	ug/kg	1.43	4.28	1
11097-69-1	Aroclor-1254	U	4.28	ug/kg	1.43	4.28	1
11096-82-5	Aroclor-1260	U	4.28	ug/kg	1.43	4.28	1

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1620
Lab Sample ID: 246434012Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.05 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 6
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.54	ug/kg	1.18	3.54	1
11104-28-2	Aroclor-1221	U	3.54	ug/kg	1.18	3.54	1
11141-16-5	Aroclor-1232	U	3.54	ug/kg	1.18	3.54	1
53469-21-9	Aroclor-1242	U	3.54	ug/kg	1.18	3.54	1
12672-29-6	Aroclor-1248	U	3.54	ug/kg	1.18	3.54	1
11097-69-1	Aroclor-1254	U	3.54	ug/kg	1.18	3.54	1
11096-82-5	Aroclor-1260	U	3.54	ug/kg	1.18	3.54	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
Lab Sample ID: 246434015

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 6.3
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8374
Batch ID: 952059
Run Date: 02/15/2010 15:05
Prep Date: 02/12/2010 12:41
Data File: 045f4501.d
045b4501.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/A.OQ	Column
12674-11-2	Aroclor-1016	U	3.56	ug/kg	1.18	3.56	1
11104-28-2	Aroclor-1221	U	3.56	ug/kg	1.18	3.56	1
11141-16-5	Aroclor-1232	U	3.56	ug/kg	1.18	3.56	1
53469-21-9	Aroclor-1242	U	3.56	ug/kg	1.18	3.56	1
12672-29-6	Aroclor-1248	U	3.56	ug/kg	1.18	3.56	1
11097-69-1	Aroclor-1254	U	3.56	ug/kg	1.18	3.56	1
11096-82-5	Aroclor-1260	U	3.56	ug/kg	1.18	3.56	1

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1620
Lab Sample ID: 246434014Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.01 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 19.7
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.15	ug/kg	1.38	4.15	1
11104-28-2	Aroclor-1221	U	4.15	ug/kg	1.38	4.15	1
11141-16-5	Aroclor-1232	U	4.15	ug/kg	1.38	4.15	1
53469-21-9	Aroclor-1242	U	4.15	ug/kg	1.38	4.15	1
12672-29-6	Aroclor-1248	U	4.15	ug/kg	1.38	4.15	1
11097-69-1	Aroclor-1254	U	4.15	ug/kg	1.38	4.15	1
11096-82-5	Aroclor-1260	U	4.15	ug/kg	1.38	4.15	1

Friday, February 05, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1620

LOS ALAMOS

REQUEST NUMBER: 10-1620

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/7/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

246434/.

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8382	1	SEPTUM AMBER GLASS	8260B Trip Blank	Ice	S
RE15-10-8354	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8354	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8356	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8356	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8353	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8353	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8352	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8352	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8355	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8355	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8351	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8351	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8350	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8350	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8357	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8357	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8338	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8338	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8336	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8336	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8339	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8339	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8337	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8337	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8375	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8375	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8374	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8374	1	SEPTUM AMBER GLASS	8260B	Ice	R

Relinquished By:

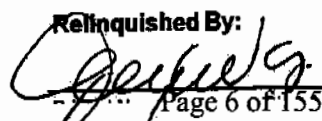
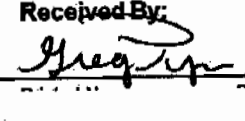
Date

Time

Received By:

Date

Time


 2/5/10 1400
 
 2-6-10 0915

**LOS ALAMOS
NATIONAL LABORATORY**

General Engineering Laboratories, Inc., Charleston, SC.

Charleston, SC 29407

LANL Request Number: 10-1620

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples according to the schedule indicated:

SHIP DATE: 2/5/2010

TURNAROUND/REPORT DUE: 3/7/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8336	R	2/2/2010	
		1	RE15-10-8337	R	2/2/2010	
		1	RE15-10-8338	R	2/2/2010	
		1	RE15-10-8339	R	2/2/2010	
		1	RE15-10-8374	R	2/2/2010	
		1	RE15-10-8375	R	2/2/2010	
	SW-846:8260B	1	RE15-10-8336	R	2/2/2010	
		1	RE15-10-8337	R	2/2/2010	
		1	RE15-10-8338	R	2/2/2010	

Friday, February 05, 2010

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REQUEST NUMBER: 10-1620

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:8260B						
		1	RE15-10-8339	R	2/2/2010	
		1	RE15-10-8350	R	2/2/2010	
		1	RE15-10-8351	R	2/2/2010	
		1	RE15-10-8352	R	2/2/2010	
		1	RE15-10-8353	R	2/2/2010	
		1	RE15-10-8354	R	2/2/2010	
		1	RE15-10-8355	R	2/2/2010	
		1	RE15-10-8356	R	2/2/2010	
		1	RE15-10-8357	R	2/2/2010	
		1	RE15-10-8374	R	2/2/2010	
		1	RE15-10-8375	R	2/2/2010	
		1	RE15-10-8382	S	2/2/2010	
SW-846:8270C						
		1	RE15-10-8336	R	2/2/2010	
		1	RE15-10-8337	R	2/2/2010	
		1	RE15-10-8338	R	2/2/2010	
		1	RE15-10-8339	R	2/2/2010	
		1	RE15-10-8350	R	2/2/2010	
		1	RE15-10-8351	R	2/2/2010	
		1	RE15-10-8352	R	2/2/2010	
		1	RE15-10-8353	R	2/2/2010	
		1	RE15-10-8354	R	2/2/2010	
		1	RE15-10-8355	R	2/2/2010	
		1	RE15-10-8356	R	2/2/2010	
		1	RE15-10-8357	R	2/2/2010	
		1	RE15-10-8374	R	2/2/2010	
		1	RE15-10-8375	R	2/2/2010	
		1	RE15-10-8336	R	2/2/2010	
SW-846:8321A_MOD						
		1	RE15-10-8337	R	2/2/2010	

REQUEST NUMBER: 10-1620

Friday, February 05, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE15-10-8338	R	2/2/2010	
		1	RE15-10-8339	R	2/2/2010	
		1	RE15-10-8350	R	2/2/2010	
		1	RE15-10-8351	R	2/2/2010	
		1	RE15-10-8352	R	2/2/2010	
		1	RE15-10-8353	R	2/2/2010	
		1	RE15-10-8354	R	2/2/2010	
		1	RE15-10-8355	R	2/2/2010	
		1	RE15-10-8356	R	2/2/2010	
		1	RE15-10-8357	R	2/2/2010	
		1	RE15-10-8374	R	2/2/2010	
		1	RE15-10-8375	R	2/2/2010	

Final Page of REQUEST NUMBER 10-1620



February 12, 2010

www.gel.com

Ms. Joylene Valdez
Los Alamos National Laboratory
PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545

Re: LANL ER Project
Work Order: 246434
SDG: 10-1620

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 06, 2010, and analyzed for Explosives by LCMSMS, GC Semivolatile PCB, GC/MS Semivolatile and GC/MS Volatile. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4485.

Sincerely,

Valerie Davis
Project Manager

Purchase Order: 72733-001-09
Chain of Custody: 10-1620
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 246434
SDG: 10-1620

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Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 246434
SDG # : 10-1620**

February 12, 2010

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary

Sample receipt The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on February 06, 2010 for analysis. The samples were prepared/analyzed within the required holding time. Shipping container temperatures were checked, documented, and within specifications. The samples were screened according to GEL Standard Operating Procedure. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Containers were checked for pH, where appropriate, and matched the preservative as documented on the accompanying chain of custody. Shipping container temperature was within specification (0 - 6C).

Sample Identification The laboratory received the following samples:

<u>Laboratory ID</u>	<u>Client ID</u>
246434001	RE15-10-8382
246434002	RE15-10-8354
246434003	RE15-10-8356
246434004	RE15-10-8353
246434005	RE15-10-8352
246434006	RE15-10-8355
246434007	RE15-10-8351
246434008	RE15-10-8350
246434009	RE15-10-8357
246434010	RE15-10-8338
246434011	RE15-10-8336
246434012	RE15-10-8339
246434013	RE15-10-8337
246434014	RE15-10-8375
246434015	RE15-10-8374

Case Narrative

Sample analyses were conducted using methodology as outlined in GEL Laboratories, LLC (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

Data Package The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Explosives by LCMSMS, GC Semivolatile PCB, GC/MS Semivolatile and GC/MS Volatile.

I certify that this data report is in compliance with the terms and conditions of the subcontract and task order, both technically and for completeness, for other than the conditions detailed in the attached case narrative.

A handwritten signature in black ink, appearing to read "for Valerie Davis".

Valerie Davis

Project Manager

List of current GEL Certifications as of 12 February 2010

State	Certification
Arizona	AZ0668
Arkansas	88-0651
CLIA	42D0904046
California – NELAP	01151CA
Colorado	GEL
Connecticut	PH-0169
Dept. of Navy	NFESC 413
EPA Region 5	WG-15J
Florida – NELAP	E87156
Georgia	E87156 (FL/NELAP)
Georgia DW	967
Hawaii	N/A
ISO 17025	2567.01
Idaho	SC00012
Illinois – NELAP	200029
Indiana	C-SC-01
Kansas – NELAP	E-10332
Kentucky	90129
Louisiana – NELAP	03046
Maryland	270
Massachusetts	M-SC012
Nevada	SC00012
New Jersey – NELAP	SC002
New Mexico	FL NELAP E87156
New York – NELAP	11501
North Carolina	233
North Carolina DW	45709
Oklahoma	9904
Pennsylvania – NELAP	68-00485
South Carolina	10120001/10120002
Tennessee	TN 02934
Texas – NELAP	T104704235-07B-TX
U.S. Dept. of Agriculture	S-52597
Utah – NELAP	GEL
Vermont	VT87156
Virginia	00151
Washington	C1641

Chain of Custody and Supporting Documentation

Friday, February 05, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1620

LOS ALAMOS

REQUEST NUMBER: 10-1620

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/7/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

2464347.

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8382	1	SEPTUM AMBER GLASS	8260B Trip Blank	Ice	S
RE15-10-8354	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8354	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8356	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8356	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8353	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8353	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8352	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8352	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8355	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8355	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8351	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8351	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8350	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8350	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8357	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8357	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8338	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8338	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8336	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8336	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8339	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8339	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8337	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8337	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8375	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8375	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8374	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8374	1	SEPTUM AMBER GLASS	8260B	Ice	R

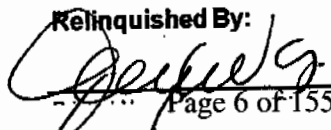
Relinquished By:

Date Time

Received By:

Date

Time



2/5/10 1400



2-6-10

0915

Friday, February 05, 2010

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/5/2010

TURNAROUND/REPORT DUE: 3/7/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature: 

Page 1 of 3

REQUEST NUMBER: 10-1620

These Samples are on:

LANL Request Number: 10-1620

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8336	R	2/2/2010	
		1	RE15-10-8337	R	2/2/2010	
		1	RE15-10-8338	R	2/2/2010	
		1	RE15-10-8339	R	2/2/2010	
		1	RE15-10-8374	R	2/2/2010	
		1	RE15-10-8375	R	2/2/2010	
		1	RE15-10-8336	R	2/2/2010	
		1	RE15-10-8337	R	2/2/2010	
		1	RE15-10-8338	R	2/2/2010	
	SW-846:8280B					

Friday, February 05, 2010

REQUEST NUMBER: 10-1620

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846.82608	1	RE15-10-8339	R	2/2/2010	
		1	RE15-10-8350	R	2/2/2010	
		1	RE15-10-8351	R	2/2/2010	
		1	RE15-10-8352	R	2/2/2010	
		1	RE15-10-8353	R	2/2/2010	
		1	RE15-10-8354	R	2/2/2010	
		1	RE15-10-8355	R	2/2/2010	
		1	RE15-10-8356	R	2/2/2010	
		1	RE15-10-8357	R	2/2/2010	
		1	RE15-10-8374	R	2/2/2010	
		1	RE15-10-8375	R	2/2/2010	
		1	RE15-10-8382	S	2/2/2010	
	SW-846.8270C	1	RE15-10-8336	R	2/2/2010	
		1	RE15-10-8337	R	2/2/2010	
		1	RE15-10-8338	R	2/2/2010	
		1	RE15-10-8339	R	2/2/2010	
		1	RE15-10-8350	R	2/2/2010	
		1	RE15-10-8351	R	2/2/2010	
		1	RE15-10-8352	R	2/2/2010	
		1	RE15-10-8353	R	2/2/2010	
		1	RE15-10-8354	R	2/2/2010	
		1	RE15-10-8355	R	2/2/2010	
		1	RE15-10-8356	R	2/2/2010	
		1	RE15-10-8357	R	2/2/2010	
		1	RE15-10-8374	R	2/2/2010	
		1	RE15-10-8375	R	2/2/2010	
	SW-846.8321A_MOD	1	RE15-10-8336	R	2/2/2010	
		1	RE15-10-8337	R	2/2/2010	

Friday, February 05, 2010

REQUEST NUMBER: 10-1620

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD					
		1	RE15-10-8338	R	2/2/2010	
		1	RE15-10-8339	R	2/2/2010	
		1	RE15-10-8350	R	2/2/2010	
		1	RE15-10-8351	R	2/2/2010	
		1	RE15-10-8352	R	2/2/2010	
		1	RE15-10-8353	R	2/2/2010	
		1	RE15-10-8354	R	2/2/2010	
		1	RE15-10-8355	R	2/2/2010	
		1	RE15-10-8356	R	2/2/2010	
		1	RE15-10-8357	R	2/2/2010	
		1	RE15-10-8374	R	2/2/2010	
		1	RE15-10-8375	R	2/2/2010	

Final Page of REQUEST NUMBER 10-1620



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LANL			SDG/ARCO/Work Order: 10-1620		
Received By: Greg Tyler			Date Received: 2/06/10		
Suspected Hazard Information		Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.	
COC/Samples marked as radioactive?			X	Maximum Counts Observed*: 80cpm	
Classified Radioactive II by RSO?			X		
COC/Samples marked containing PCBs?			X		
Shipped as a DOT Hazardous?			X	Hazard Class Shipped: UN#:	
Samples identified as Foreign Soil?			X		

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?	X			Preservation Method: ice bags blue ice dry ice none other 2- 6C 12,15C
3	Chain of custody documents included with shipment?	X			
4	Sample containers intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7	Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	X			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?		X		Sample ID's affected: No time on Chain of Custody.
11	Number of containers received match number indicated on COC?	X			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	X			

Comments:
Fed Ex Tracking Numbers:
7209 7849 9293 2C 7209 7849 9282 4C 7209 7849 9179 15C
7209 7849 9271 3C 7209 7849 9180 5C 7209 7849 9227 15C
7209 7849 9308 3C 7209 7849 9216 5C
7209 7849 9319 3C 7209 7849 9205 5C
7209 7849 9260 3C 7209 7849 9190 6C
7209 7849 9250 3C 7209 7849 9238 6C
7209 7849 9249 4C 7209 7849 9157 12C
7209 7849 9341 4C 7209 7849 9146 12C

ORIGIN ID: BAF (506) 666-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 63
LOS ALAMOS, NM 87545
UNITED STATES US

ACTNGT: 01.0 LB MAN
CAD: 0014176/CAFE2449
BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 68010AMR3A05529E00

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Express



1 of 2
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SATURDAY ### A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

X0 CHSA



JOYLENE VALDEZ (506) 666-9968
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 63
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 06FEB10
ACTNGT: 48.0 LB MAN
CAD: 0014176/CAFE2449
BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
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MPSH 7209 7849 9249
Matr# 7209 7849 9238 0201

SATURDAY ### A1
PRIORITY OVERNIGHT

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SC-US
CHS

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ORIGIN ID: BAF (506) 666-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 63
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 06FEB10
ACTNGT: 48.0 LB MAN
CAD: 0014176/CAFE2449
BILL SENDER

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CHARLESTON SC 29407

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REF: 68010AMR3A05529E00

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Matr# 7209 7849 9238 0201

SATURDAY ### A1
PRIORITY OVERNIGHT

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SC-US
CHS

X0 CHSA



ORIGIN ID: BAF (506) 666-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 63
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 06FEB10
ACTNGT: 53.0 LB MAN
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BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 68010MR1A015AGMK0

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Express



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SATURDAY ### A1
PRIORITY OVERNIGHT

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CHS

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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

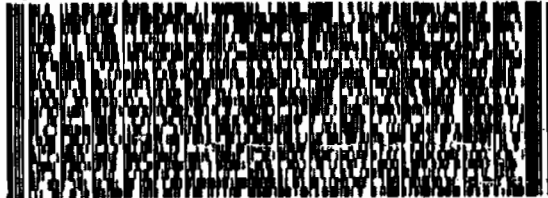
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VALERIE DAVIS
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2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-9171
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Matr# 7209 7849 9179 0201

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CHS



JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 05FEB10
ACTWGT: 51.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-9171
REF: 68010AAREW0140T500



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3 of 3
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Matr# 7209 7849 9135 0201

X0 CHSA

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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

ACTWGT: 51.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-9171
REF: 68010AMR3A05329E00



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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

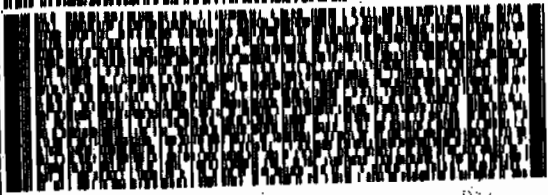
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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-9171
REF: 68010AAREW0140T500



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2 of 3
MPSh# 0263 7209 7849 9146

Matr# 7209 7849 9135 0201

X0 CHSA

29407
SC-US
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ORIGIN ID: 50FA (505) 565-9988 T
JOYLENE VALDES
LOS ALAMOS NATL LAB
1740 BLDG 1237 SPU 83

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 06FEB10
ACTN01: 45 0 LB MAN
CAD: 80141767CAFE2448

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 68010AMP0532VA00

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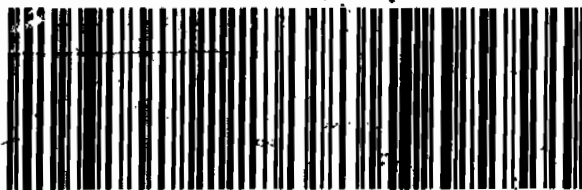


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TRKN 7209 7849 9179
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SATURDAY ### A1
PRIORITY OVERNIGHT

X0 CHSA

29407
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LOS ALAMOS, NM 87545
UNITED STATES US

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 68010AMP0532VA00

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3 of 3
TRKN 7209 7849 9227
0201
MM MASTER MM

SATURDAY ### A1
PRIORITY OVERNIGHT

X0 CHSA

29407
SC-US
CHS



Data Review Qualifier Flag Definition Sheet

Data Review Qualifier Definitions

Qualifier Explanation

*	A quality control analyte recovery is outside of specified acceptance criteria
**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
A	The TIC is a suspected aldol-condensation product
B	Target analyte was detected in the associated blank
B	Metals-Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
d	5-day BOD-The 2:1 depletion requirement was not met for this sample
E	Organics-Concentration of the target analyte exceeds the instrument calibration range
E	Metals-%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
H	Analytical holding time was exceeded
h	Preparation or preservation holding time was exceeded
J	Value is estimated
N	Metals-The Matrix spike sample recovery is not within specified control limits
N	Organics-Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A	Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
ND	Analyte concentration is not detected above the reporting limit
UI	Gamma Spectroscopy-Uncertain identification
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
Z	Paint Filter Test-Particulates passed through the filter, however no free liquids were observed.

GC/MS Volatile Analysis

Case Narrative

**ChemStation Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1620**

Method/Analysis Information

Procedure: Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer
Analytical Method: SW846 8260B
Prep Method: SW846 5030
Analytical Batch Number: 952586
Prep Batch Number: 952579

Sample Analysis

The following client and quality control samples were analyzed to complete this SDG using the methods referenced in the Analysis Information section:

Sample ID	Client ID
246434001	RE15-10-8382
246434002	RE15-10-8354
246434003	RE15-10-8356
246434004	RE15-10-8353
246434005	RE15-10-8352
246434006	RE15-10-8355
246434007	RE15-10-8351
246434008	RE15-10-8350
246434009	RE15-10-8357
246434010	RE15-10-8338
246434011	RE15-10-8336
246434012	RE15-10-8339
246434013	RE15-10-8337
246434014	RE15-10-8375
246434015	RE15-10-8374
1202041683	Method Blank (MB)
1202041686	Laboratory Control Sample (LCS)
1202041687	Laboratory Control Sample (LCS)
1202044278	Method Blank (MB)
1202044279	Laboratory Control Sample (LCS)
1202044280	Laboratory Control Sample (LCS)
1202041684	246434015(RE15-10-8374) Post Spike (PS)
1202041685	246434015(RE15-10-8374) Post Spike Duplicate (PSD)

NOTE: For volatile organic analyses the matrix spike designations may be indicated as "PS" or "PSD". The "PS" designation (post spike) indicates that the matrix was fortified prior to analysis but after applying any prep factors, such as a dilution. The laboratory considers the MS/MSD and PS/PSD designations interchangeable.

Samples 246434 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014 and 015 in this SDG were analyzed on an "dry weight" basis. Samples 246434 001 in this SDG were analyzed on a "as received" basis.

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-038 REV# 14.

Raw data reports are processed and reviewed by the analyst using the Chemstation software package. False positives have been removed from the quantitation reports per standard operating procedures (SOP) section 19.1.2. False positive analytes are designated on the quantitation report with a 'd' qualifier.

Calibration Information

Please note that the 'Cal Date' indicated on each quantitation report reflects the date and time of the most recent calibrated analyte(s) in the processing method. Since the laboratory may calibrate with multiple solutions on different days using the same processing method, the software will update the 'Cal Date' to the last calibration file, date and time. The correct dates and times for all calibration files are located on the Calibration History report in the Standard Data section in the data package.

The surrogate compounds were calibrated using a minimum five-point calibration curve. The surrogates were added by the auto sampler at a concentration of 50 ug/L. GEL Laboratories LLC will not have surrogate recoveries reported for Dibromofluoromethane. This is due to increased regulations for this analyte and an industry shortage.

A complete list of the initial calibration data files are shown in the Calibration History report located in the Standard Data section of the data package.

Initial Calibration

All initial calibration requirements have been met for this sample delivery groups (SDG). A second source initial calibration verification (ICV) was included in the standard section directly behind the initial calibration.

Continuing Calibration Verification Requirements

All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement

The MBs analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

Surrogate recoveries in all client and quality control samples were within the acceptance limits.

Laboratory Control Sample (LCS) Recovery

The LCS recoveries were within the acceptance limits, except Bromomethane in LCS (1202041686). The unacceptable recovery was less than 5% of the requested analyte list. This satisfies the client criteria. The results are reported. See DER 791371.

QC Sample Designation

Sample 246434015 (RE15-10-8374) was designated for spike analysis in this SDG.

Matrix Spike (PS) Recovery Statement

The spike recoveries for this SDG were within the required acceptance limits.

Matrix Spike Duplicate (PSD) Recovery Statement

The spike duplicate recoveries for this SDG were within the required acceptance limits.

Relative Percent Difference (RPD) Statement

The RPD between the matrix spike pair were within the acceptance limits, except 2-Butanone and Acetone. The results are reported. See DER 791371.

Internal Standard (ISTD) Acceptance

The internal standard responses in all client and quality control samples met the required acceptance criteria.

Technical Information

Holding Time Specifications

GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection or sample receipt. Those holding times expressed in hours are calculated in the ALPHALIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Sample Preservation and Integrity

All samples met the sample preservation and integrity requirements.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Samples 246434010 (RE15-10-8338), 246434011 (RE15-10-8336) and 246434013 (RE15-10-8337) required reanalysis due to carryover of tentatively identified compounds.

Miscellaneous Information

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted: Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative will include the data validator's signature and title. The signature page also includes the data qualifiers used in the fractional package. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Data Exception (DER) Documentation

DER # 791371 was generated for samples in this SDG.

Manual Integrations

Data files associated with the initial calibration, continuing calibration check, and samples did not require manual integrations.

TIC Comment

Tentatively identified compounds (TIC) were required for this SDG. The tentatively identified compounds included some silanols. These compounds were due to column or septum bleed and were not native to the affected samples. Please note that non-requested target analytes that are reported on the quantitation reports will not be present on the Form I. These detected analytes are included in the calibrated method and as a result cannot be reported on the TIC quantitation report.

Additional Comments

Additional comments were not required for this SDG.

Residual Chlorine

Residual Chlorine was not detected in any of the samples in this SDG.

System Configuration

The Volatile-GC/MS analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description	P & T Trap
VOA2.I	Gas Chromatograph/Mass Spectrometer	HP7890N/HP5975C	DB-624	J&W, 60m x 0.25mm x 1.4um	Trap 10

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

LANL010 Los Alamos National Laboratory (72733-001-09)

Client SDG: 10-1620 GEL Work Order: 246434

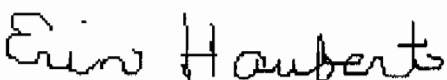
The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this case narrative:

Signature: 

Name: Erin Haubert

Date: 26 FEB 2010

Title: Data Validator

Sample Data Summary

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434001
 Client ID: RE15-10-8382
 Batch ID: 952586
 Run Date: 02/12/2010 21:43
 Prep Date: 02/12/2010 11:04
 Data File: 021210V2.b\2Y532.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: S
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.00	ug/kg	0.340	1.00
74-87-3	Chloromethane	U	1.00	ug/kg	0.300	1.00
75-01-4	Vinyl chloride	U	1.00	ug/kg	0.300	1.00
74-83-9	Bromomethane	U	1.00	ug/kg	0.300	1.00
75-00-3	Chloroethane	U	1.00	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/kg	0.300	1.00
67-64-1	Acetone	J	2.68	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
74-88-4	Iodomethane	U	5.00	ug/kg	1.60	5.00
75-09-2	Methylene chloride	U	5.00	ug/kg	2.00	5.00
75-15-0	Carbon disulfide	U	5.00	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/kg	0.300	1.00
78-93-3	2-Butanone	U	5.00	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
67-66-3	Chloroform	U	1.00	ug/kg	0.300	1.00
74-97-5	Bromochloromethane	U	1.00	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene	U	1.00	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/kg	0.300	1.00
71-43-2	Benzene	U	1.00	ug/kg	0.300	1.00
79-01-6	Trichloroethylene	U	1.00	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/kg	0.300	1.00
74-95-3	Dibromomethane	U	1.00	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
108-88-3	Toluene	U	1.00	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/kg	0.300	1.00
591-78-6	2-Hexanone	U	5.00	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane	U	1.00	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene	U	1.00	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane	U	1.00	ug/kg	0.300	1.00
108-90-7	Chlorobenzene	U	1.00	ug/kg	0.300	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: S
Lab Sample ID: 246434001	Date Received: 02/06/2010 09:15	
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8382	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.1	Dilution: 1
Run Date: 02/12/2010 21:43	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:04	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b2Y532.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.00	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes	U	2.00	ug/kg	0.300	2.00
95-47-6	o-Xylene	U	1.00	ug/kg	0.300	1.00
100-42-5	Styrene	U	1.00	ug/kg	0.300	1.00
75-25-2	Bromoform	U	1.00	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane	U	1.00	ug/kg	0.300	1.00
108-86-1	Bromobenzene	U	1.00	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene	U	1.00	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene	U	1.00	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene	U	1.00	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene	U	1.00	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene	U	1.00	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene	U	1.00	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/kg	0.300	1.00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.00	ug/kg	1.60	5.00
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.32	20.7	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434002	Date Received: 02/06/2010 09:15	%Moisture: 22
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8354	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/12/2010 22:12	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:05	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y533.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.28	ug/kg	0.436	1.28
74-87-3	Chloromethane	U	1.28	ug/kg	0.385	1.28
75-01-4	Vinyl chloride	U	1.28	ug/kg	0.385	1.28
74-83-9	Bromomethane	U	1.28	ug/kg	0.385	1.28
75-00-3	Chloroethane	U	1.28	ug/kg	0.385	1.28
75-69-4	Trichlorofluoromethane	U	1.28	ug/kg	0.385	1.28
67-64-1	Acetone	U	6.41	ug/kg	2.13	6.41
75-35-4	1,1-Dichloroethylene	U	1.28	ug/kg	0.385	1.28
74-88-4	Iodomethane	U	6.41	ug/kg	2.05	6.41
75-09-2	Methylene chloride	U	6.41	ug/kg	2.56	6.41
75-15-0	Carbon disulfide	U	6.41	ug/kg	1.60	6.41
156-60-5	trans-1,2-Dichloroethylene	U	1.28	ug/kg	0.385	1.28
75-34-3	1,1-Dichloroethane	U	1.28	ug/kg	0.385	1.28
78-93-3	2-Butanone	U	6.41	ug/kg	1.92	6.41
156-59-2	cis-1,2-Dichloroethylene	U	1.28	ug/kg	0.385	1.28
594-20-7	2,2-Dichloropropane	U	1.28	ug/kg	0.385	1.28
67-66-3	Chloroform	U	1.28	ug/kg	0.385	1.28
74-97-5	Bromochloromethane	U	1.28	ug/kg	0.423	1.28
71-55-6	1,1,1-Trichloroethane	U	1.28	ug/kg	0.385	1.28
563-58-6	1,1-Dichloropropene	U	1.28	ug/kg	0.385	1.28
56-23-5	Carbon tetrachloride	U	1.28	ug/kg	0.385	1.28
107-06-2	1,2-Dichloroethane	U	1.28	ug/kg	0.385	1.28
71-43-2	Benzene	U	1.28	ug/kg	0.385	1.28
79-01-6	Trichloroethylene	U	1.28	ug/kg	0.423	1.28
78-87-5	1,2-Dichloropropane	U	1.28	ug/kg	0.385	1.28
75-27-4	Bromodichloromethane	U	1.28	ug/kg	0.385	1.28
74-95-3	Dibromomethane	U	1.28	ug/kg	0.385	1.28
108-10-1	4-Methyl-2-pentanone	U	6.41	ug/kg	1.60	6.41
10061-01-5	cis-1,3-Dichloropropylene	U	1.28	ug/kg	0.385	1.28
108-88-3	Toluene	U	1.28	ug/kg	0.385	1.28
10061-02-6	trans-1,3-Dichloropropylene	U	1.28	ug/kg	0.385	1.28
79-00-5	1,1,2-Trichloroethane	U	1.28	ug/kg	0.385	1.28
591-78-6	2-Hexanone	U	6.41	ug/kg	1.92	6.41
142-28-9	1,3-Dichloropropane	U	1.28	ug/kg	0.385	1.28
127-18-4	Tetrachloroethylene	U	1.28	ug/kg	0.385	1.28
124-48-1	Dibromochloromethane	U	1.28	ug/kg	0.385	1.28
106-93-4	1,2-Dibromoethane	U	1.28	ug/kg	0.385	1.28
108-90-7	Chlorobenzene	U	1.28	ug/kg	0.385	1.28

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434002
 Client ID: RE15-10-8354
 Batch ID: 952586
 Run Date: 02/12/2010 22:12
 Prep Date: 02/12/2010 11:05
 Data File: 021210V2.b\2Y533.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.1
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 22
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.28	ug/kg	0.385	1.28
179601-23-1	m,p-Xylenes	U	2.56	ug/kg	0.385	2.56
95-47-6	o-Xylene	U	1.28	ug/kg	0.385	1.28
100-42-5	Styrene	U	1.28	ug/kg	0.385	1.28
75-25-2	Bromoform	U	1.28	ug/kg	0.385	1.28
79-34-5	1,1,2,2-Tetrachloroethane	U	1.28	ug/kg	0.385	1.28
96-18-4	1,2,3-Trichloropropane	U	1.28	ug/kg	0.385	1.28
108-86-1	Bromobenzene	U	1.28	ug/kg	0.385	1.28
103-65-1	n-Propylbenzene	U	1.28	ug/kg	0.385	1.28
95-49-8	2-Chlorotoluene	U	1.28	ug/kg	0.385	1.28
98-82-8	Isopropylbenzene	U	1.28	ug/kg	0.385	1.28
108-67-8	1,3,5-Trimethylbenzene	U	1.28	ug/kg	0.385	1.28
106-43-4	4-Chlorotoluene	U	1.28	ug/kg	0.385	1.28
98-06-6	tert-Butylbenzene	U	1.28	ug/kg	0.385	1.28
95-63-6	1,2,4-Trimethylbenzene	U	1.28	ug/kg	0.385	1.28
135-98-8	sec-Butylbenzene	U	1.28	ug/kg	0.385	1.28
99-87-6	4-Isopropyltoluene	U	1.28	ug/kg	0.385	1.28
541-73-1	1,3-Dichlorobenzene	U	1.28	ug/kg	0.385	1.28
106-46-7	1,4-Dichlorobenzene	U	1.28	ug/kg	0.385	1.28
104-51-8	n-Butylbenzene	U	1.28	ug/kg	0.385	1.28
96-12-8	1,2-Dibromo-3-chloropropane	U	1.28	ug/kg	0.385	1.28
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.41	ug/kg	2.05	6.41
630-20-6	1,1,1,2-Tetrachloroethane	U	1.28	ug/kg	0.385	1.28
95-50-1	1,2-Dichlorobenzene	U	1.28	ug/kg	0.385	1.28

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	36.6	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434003
 Client ID: RE15-10-8356
 Batch ID: 952586
 Run Date: 02/12/2010 22:41
 Prep Date: 02/12/2010 11:06
 Data File: 021210V2.b\2Y534.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 14.7
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.17	ug/kg	0.398	1.17
74-87-3	Chloromethane	U	1.17	ug/kg	0.352	1.17
75-01-4	Vinyl chloride	U	1.17	ug/kg	0.352	1.17
74-83-9	Bromomethane	U	1.17	ug/kg	0.352	1.17
75-00-3	Chloroethane	U	1.17	ug/kg	0.352	1.17
75-69-4	Trichlorofluoromethane	U	1.17	ug/kg	0.352	1.17
67-64-1	Acetone		7.71	ug/kg	1.95	5.86
75-35-4	1,1-Dichloroethylene	U	1.17	ug/kg	0.352	1.17
74-88-4	Iodomethane	U	5.86	ug/kg	1.88	5.86
75-09-2	Methylene chloride	U	5.86	ug/kg	2.34	5.86
75-15-0	Carbon disulfide	U	5.86	ug/kg	1.46	5.86
156-60-5	trans-1,2-Dichloroethylene	U	1.17	ug/kg	0.352	1.17
75-34-3	1,1-Dichloroethane	U	1.17	ug/kg	0.352	1.17
78-93-3	2-Butanone	U	5.86	ug/kg	1.76	5.86
156-59-2	cis-1,2-Dichloroethylene	U	1.17	ug/kg	0.352	1.17
594-20-7	2,2-Dichloropropane	U	1.17	ug/kg	0.352	1.17
67-66-3	Chloroform	U	1.17	ug/kg	0.352	1.17
74-97-5	Bromochloromethane	U	1.17	ug/kg	0.387	1.17
71-55-6	1,1,1-Trichloroethane	U	1.17	ug/kg	0.352	1.17
563-58-6	1,1-Dichloropropene	U	1.17	ug/kg	0.352	1.17
56-23-5	Carbon tetrachloride	U	1.17	ug/kg	0.352	1.17
107-06-2	1,2-Dichloroethane	U	1.17	ug/kg	0.352	1.17
71-43-2	Benzene	U	1.17	ug/kg	0.352	1.17
79-01-6	Trichloroethylene	U	1.17	ug/kg	0.387	1.17
78-87-5	1,2-Dichloropropane	U	1.17	ug/kg	0.352	1.17
75-27-4	Bromodichloromethane	U	1.17	ug/kg	0.352	1.17
74-95-3	Dibromomethane	U	1.17	ug/kg	0.352	1.17
108-10-1	4-Methyl-2-pentanone	U	5.86	ug/kg	1.46	5.86
10061-01-5	cis-1,3-Dichloropropylene	U	1.17	ug/kg	0.352	1.17
108-88-3	Toluene		3.83	ug/kg	0.352	1.17
10061-02-6	trans-1,3-Dichloropropylene	U	1.17	ug/kg	0.352	1.17
79-00-5	1,1,2-Trichloroethane	U	1.17	ug/kg	0.352	1.17
591-78-6	2-Hexanone	U	5.86	ug/kg	1.76	5.86
142-28-9	1,3-Dichloropropane	U	1.17	ug/kg	0.352	1.17
127-18-4	Tetrachloroethylene	U	1.17	ug/kg	0.352	1.17
124-48-1	Dibromochloromethane	U	1.17	ug/kg	0.352	1.17
106-93-4	1,2-Dibromoethane	U	1.17	ug/kg	0.352	1.17
108-90-7	Chlorobenzene	U	1.17	ug/kg	0.352	1.17

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434003	Date Received: 02/06/2010 09:15	%Moisture: 14.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8356	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/12/2010 22:41	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:06	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y534.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.17	ug/kg	0.352	1.17
179601-23-1	m,p-Xylenes	J	0.422	ug/kg	0.352	2.34
95-47-6	o-Xylene	U	1.17	ug/kg	0.352	1.17
100-42-5	Styrene	U	1.17	ug/kg	0.352	1.17
75-25-2	Bromoform	U	1.17	ug/kg	0.352	1.17
79-34-5	1,1,2,2-Tetrachloroethane	U	1.17	ug/kg	0.352	1.17
96-18-4	1,2,3-Trichloropropane	U	1.17	ug/kg	0.352	1.17
108-86-1	Bromobenzene	U	1.17	ug/kg	0.352	1.17
103-65-1	n-Propylbenzene	U	1.17	ug/kg	0.352	1.17
95-49-8	2-Chlorotoluene	U	1.17	ug/kg	0.352	1.17
98-82-8	Isopropylbenzene	U	1.17	ug/kg	0.352	1.17
108-67-8	1,3,5-Trimethylbenzene	U	1.17	ug/kg	0.352	1.17
106-43-4	4-Chlorotoluene	U	1.17	ug/kg	0.352	1.17
98-06-6	tert-Butylbenzene	U	1.17	ug/kg	0.352	1.17
95-63-6	1,2,4-Trimethylbenzene	U	1.17	ug/kg	0.352	1.17
135-98-8	sec-Butylbenzene	U	1.17	ug/kg	0.352	1.17
99-87-6	4-Isopropyltoluene		2.95	ug/kg	0.352	1.17
541-73-1	1,3-Dichlorobenzene	U	1.17	ug/kg	0.352	1.17
106-46-7	1,4-Dichlorobenzene	U	1.17	ug/kg	0.352	1.17
104-51-8	n-Butylbenzene	U	1.17	ug/kg	0.352	1.17
96-12-8	1,2-Dibromo-3-chloropropane	U	1.17	ug/kg	0.352	1.17
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.86	ug/kg	1.88	5.86
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.17	ug/kg	0.352	1.17
95-50-1	1,2-Dichlorobenzene	U	1.17	ug/kg	0.352	1.17

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	47.9	ug/kg	0	J
	unknown hydrocarbon	17.06	83.2	ug/kg	0	J
	unknown hydrocarbon	17.38	6.01	ug/kg	0	J
	unknown aromatic	17.7	11.9	ug/kg	0	J
	unknown hydrocarbon	17.79	19.1	ug/kg	0	J
	unknown hydrocarbon	18.11	25.8	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434004
 Client ID: RE15-10-8353
 Batch ID: 952586
 Run Date: 02/12/2010 23:10
 Prep Date: 02/12/2010 11:07
 Data File: 021210V2.b\2Y535.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2J
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 13
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.15	ug/kg	0.391	1.15
74-87-3	Chloromethane	U	1.15	ug/kg	0.345	1.15
75-01-4	Vinyl chloride	U	1.15	ug/kg	0.345	1.15
74-83-9	Bromomethane	U	1.15	ug/kg	0.345	1.15
75-00-3	Chloroethane	U	1.15	ug/kg	0.345	1.15
75-69-4	Trichlorofluoromethane	U	1.15	ug/kg	0.345	1.15
67-64-1	Acetone	U	5.75	ug/kg	1.91	5.75
75-35-4	1,1-Dichloroethylene	U	1.15	ug/kg	0.345	1.15
74-88-4	Iodomethane	U	5.75	ug/kg	1.84	5.75
75-09-2	Methylene chloride	U	5.75	ug/kg	2.30	5.75
75-15-0	Carbon disulfide	U	5.75	ug/kg	1.44	5.75
156-60-5	trans-1,2-Dichloroethylene	U	1.15	ug/kg	0.345	1.15
75-34-3	1,1-Dichloroethane	U	1.15	ug/kg	0.345	1.15
78-93-3	2-Butanone	U	5.75	ug/kg	1.72	5.75
156-59-2	cis-1,2-Dichloroethylene	U	1.15	ug/kg	0.345	1.15
594-20-7	2,2-Dichloropropane	U	1.15	ug/kg	0.345	1.15
67-66-3	Chloroform	U	1.15	ug/kg	0.345	1.15
74-97-5	Bromochloromethane	U	1.15	ug/kg	0.379	1.15
71-55-6	1,1,1-Trichloroethane	U	1.15	ug/kg	0.345	1.15
563-58-6	1,1-Dichloropropene	U	1.15	ug/kg	0.345	1.15
56-23-5	Carbon tetrachloride	U	1.15	ug/kg	0.345	1.15
107-06-2	1,2-Dichloroethane	U	1.15	ug/kg	0.345	1.15
71-43-2	Benzene	U	1.15	ug/kg	0.345	1.15
79-01-6	Trichloroethylene	U	1.15	ug/kg	0.379	1.15
78-87-5	1,2-Dichloropropane	U	1.15	ug/kg	0.345	1.15
75-27-4	Bromodichloromethane	U	1.15	ug/kg	0.345	1.15
74-95-3	Dibromomethane	U	1.15	ug/kg	0.345	1.15
108-10-1	4-Methyl-2-pentanone	U	5.75	ug/kg	1.44	5.75
10061-01-5	cis-1,3-Dichloropropylene	U	1.15	ug/kg	0.345	1.15
108-88-3	Toluene	U	1.15	ug/kg	0.345	1.15
10061-02-6	trans-1,3-Dichloropropylene	U	1.15	ug/kg	0.345	1.15
79-00-5	1,1,2-Trichloroethane	U	1.15	ug/kg	0.345	1.15
591-78-6	2-Hexanone	U	5.75	ug/kg	1.72	5.75
142-28-9	1,3-Dichloropropane	U	1.15	ug/kg	0.345	1.15
127-18-4	Tetrachloroethylene	U	1.15	ug/kg	0.345	1.15
124-48-1	Dibromochloromethane	U	1.15	ug/kg	0.345	1.15
106-93-4	1,2-Dibromoethane	U	1.15	ug/kg	0.345	1.15
108-90-7	Chlorobenzene	U	1.15	ug/kg	0.345	1.15

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434004
 Client ID: RE15-10-8353
 Batch ID: 952586
 Run Date: 02/12/2010 23:10
 Prep Date: 02/12/2010 11:07
 Data File: 021210V2.b\2Y535.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 13
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.15	ug/kg	0.345	1.15
179601-23-1	m,p-Xylenes	U	2.30	ug/kg	0.345	2.30
95-47-6	o-Xylene	U	1.15	ug/kg	0.345	1.15
100-42-5	Styrene	U	1.15	ug/kg	0.345	1.15
75-25-2	Bromoform	U	1.15	ug/kg	0.345	1.15
79-34-5	1,1,2,2-Tetrachloroethane	U	1.15	ug/kg	0.345	1.15
96-18-4	1,2,3-Trichloropropane	U	1.15	ug/kg	0.345	1.15
108-86-1	Bromobenzene	U	1.15	ug/kg	0.345	1.15
103-65-1	n-Propylbenzene	U	1.15	ug/kg	0.345	1.15
95-49-8	2-Chlorotoluene	U	1.15	ug/kg	0.345	1.15
98-82-8	Isopropylbenzene	U	1.15	ug/kg	0.345	1.15
108-67-8	1,3,5-Trimethylbenzene	U	1.15	ug/kg	0.345	1.15
106-43-4	4-Chlorotoluene	U	1.15	ug/kg	0.345	1.15
98-06-6	tert-Butylbenzene	U	1.15	ug/kg	0.345	1.15
95-63-6	1,2,4-Trimethylbenzene	U	1.15	ug/kg	0.345	1.15
135-98-8	sec-Butylbenzene	U	1.15	ug/kg	0.345	1.15
99-87-6	4-Isopropyltoluene	U	1.15	ug/kg	0.345	1.15
541-73-1	1,3-Dichlorobenzene	U	1.15	ug/kg	0.345	1.15
106-46-7	1,4-Dichlorobenzene	U	1.15	ug/kg	0.345	1.15
104-51-8	n-Butylbenzene	U	1.15	ug/kg	0.345	1.15
96-12-8	1,2-Dibromo-3-chloropropane	U	1.15	ug/kg	0.345	1.15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.75	ug/kg	1.84	5.75
630-20-6	1,1,1,2-Tetrachloroethane	U	1.15	ug/kg	0.345	1.15
95-50-1	1,2-Dichlorobenzene	U	1.15	ug/kg	0.345	1.15

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	30.5	ug/kg	0	J
	unknown siloxane	19.15	14.7	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434005
 Client ID: RE15-10-8352
 Batch ID: 952586
 Run Date: 02/12/2010 23:39
 Prep Date: 02/12/2010 11:08
 Data File: 021210V2.b\2Y536.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 23
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.30	ug/kg	0.442	1.30
74-87-3	Chloromethane	U	1.30	ug/kg	0.390	1.30
75-01-4	Vinyl chloride	U	1.30	ug/kg	0.390	1.30
74-83-9	Bromomethane	U	1.30	ug/kg	0.390	1.30
75-00-3	Chloroethane	U	1.30	ug/kg	0.390	1.30
75-69-4	Trichlorofluoromethane	U	1.30	ug/kg	0.390	1.30
67-64-1	Acetone	U	6.50	ug/kg	2.16	6.50
75-35-4	1,1-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
74-88-4	Iodomethane	U	6.50	ug/kg	2.08	6.50
75-09-2	Methylene chloride	U	6.50	ug/kg	2.60	6.50
75-15-0	Carbon disulfide	U	6.50	ug/kg	1.62	6.50
156-60-5	trans-1,2-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
75-34-3	1,1-Dichloroethane	U	1.30	ug/kg	0.390	1.30
78-93-3	2-Butanone	U	6.50	ug/kg	1.95	6.50
156-59-2	cis-1,2-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
594-20-7	2,2-Dichloropropane	U	1.30	ug/kg	0.390	1.30
67-66-3	Chloroform	U	1.30	ug/kg	0.390	1.30
74-97-5	Bromochloromethane	U	1.30	ug/kg	0.429	1.30
71-55-6	1,1,1-Trichloroethane	U	1.30	ug/kg	0.390	1.30
563-58-6	1,1-Dichloropropene	U	1.30	ug/kg	0.390	1.30
56-23-5	Carbon tetrachloride	U	1.30	ug/kg	0.390	1.30
107-06-2	1,2-Dichloroethane	U	1.30	ug/kg	0.390	1.30
71-43-2	Benzene	U	1.30	ug/kg	0.390	1.30
79-01-6	Trichloroethylene	U	1.30	ug/kg	0.429	1.30
78-87-5	1,2-Dichloropropane	U	1.30	ug/kg	0.390	1.30
75-27-4	Bromodichloromethane	U	1.30	ug/kg	0.390	1.30
74-95-3	Dibromomethane	U	1.30	ug/kg	0.390	1.30
108-10-1	4-Methyl-2-pentanone	U	6.50	ug/kg	1.62	6.50
10061-01-5	cis-1,3-Dichloropropylene	U	1.30	ug/kg	0.390	1.30
108-88-3	Toluene	U	1.30	ug/kg	0.390	1.30
10061-02-6	trans-1,3-Dichloropropylene	U	1.30	ug/kg	0.390	1.30
79-00-5	1,1,2-Trichloroethane	U	1.30	ug/kg	0.390	1.30
591-78-6	2-Hexanone	U	6.50	ug/kg	1.95	6.50
142-28-9	1,3-Dichloropropane	U	1.30	ug/kg	0.390	1.30
127-18-4	Tetrachloroethylene	U	1.30	ug/kg	0.390	1.30
124-48-1	Dibromochloromethane	U	1.30	ug/kg	0.390	1.30
106-93-4	1,2-Dibromoethane	U	1.30	ug/kg	0.390	1.30
108-90-7	Chlorobenzene	U	1.30	ug/kg	0.390	1.30

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434005	Date Received: 02/06/2010 09:15	%Moisture: 23
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8352	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/12/2010 23:39	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:08	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y536.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.30	ug/kg	0.390	1.30
179601-23-1	m,p-Xylenes	U	2.60	ug/kg	0.390	2.60
95-47-6	o-Xylene	U	1.30	ug/kg	0.390	1.30
100-42-5	Styrene	U	1.30	ug/kg	0.390	1.30
75-25-2	Bromoform	U	1.30	ug/kg	0.390	1.30
79-34-5	1,1,2,2-Tetrachloroethane	U	1.30	ug/kg	0.390	1.30
96-18-4	1,2,3-Trichloropropane	U	1.30	ug/kg	0.390	1.30
108-86-1	Bromobenzene	U	1.30	ug/kg	0.390	1.30
103-65-1	n-Propylbenzene	U	1.30	ug/kg	0.390	1.30
95-49-8	2-Chlorotoluene	U	1.30	ug/kg	0.390	1.30
98-82-8	Isopropylbenzene	U	1.30	ug/kg	0.390	1.30
108-67-8	1,3,5-Trimethylbenzene	U	1.30	ug/kg	0.390	1.30
106-43-4	4-Chlorotoluene	U	1.30	ug/kg	0.390	1.30
98-06-6	tert-Butylbenzene	U	1.30	ug/kg	0.390	1.30
95-63-6	1,2,4-Trimethylbenzene	U	1.30	ug/kg	0.390	1.30
135-98-8	sec-Butylbenzene	U	1.30	ug/kg	0.390	1.30
99-87-6	4-Isopropyltoluene	U	1.30	ug/kg	0.390	1.30
541-73-1	1,3-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30
106-46-7	1,4-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30
104-51-8	n-Butylbenzene	U	1.30	ug/kg	0.390	1.30
96-12-8	1,2-Dibromo-3-chloropropane	U	1.30	ug/kg	0.390	1.30
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.50	ug/kg	2.08	6.50
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.30	ug/kg	0.390	1.30
95-50-1	1,2-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.35	24	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434006	Date Received: 02/06/2010 09:15	%Moisture: 12.7
Client ID: RE15-10-8355	Client: LANL010	Project: LANL01004
Batch ID: 952586	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/13/2010 00:08	Inst: VOA2.I	Dilution: 1
Prep Date: 02/12/2010 11:09	Analyst: CDS1	Purge Vol: 5 mL
Data File: 021210V2.b\2Y537.D	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.15	ug/kg	0.389	1.15
74-87-3	Chloromethane	U	1.15	ug/kg	0.344	1.15
75-01-4	Vinyl chloride	U	1.15	ug/kg	0.344	1.15
74-83-9	Bromomethane	U	1.15	ug/kg	0.344	1.15
75-00-3	Chloroethane	U	1.15	ug/kg	0.344	1.15
75-69-4	Trichlorofluoromethane	U	1.15	ug/kg	0.344	1.15
67-64-1	Acetone	U	5.73	ug/kg	1.90	5.73
75-35-4	1,1-Dichloroethylene	U	1.15	ug/kg	0.344	1.15
74-88-4	Iodomethane	U	5.73	ug/kg	1.83	5.73
75-09-2	Methylene chloride	U	5.73	ug/kg	2.29	5.73
75-15-0	Carbon disulfide	U	5.73	ug/kg	1.43	5.73
156-60-5	trans-1,2-Dichloroethylene	U	1.15	ug/kg	0.344	1.15
75-34-3	1,1-Dichloroethane	U	1.15	ug/kg	0.344	1.15
78-93-3	2-Butanone	U	5.73	ug/kg	1.72	5.73
156-59-2	cis-1,2-Dichloroethylene	U	1.15	ug/kg	0.344	1.15
594-20-7	2,2-Dichloropropane	U	1.15	ug/kg	0.344	1.15
67-66-3	Chloroform	U	1.15	ug/kg	0.344	1.15
74-97-5	Bromochloromethane	U	1.15	ug/kg	0.378	1.15
71-55-6	1,1,1-Trichloroethane	U	1.15	ug/kg	0.344	1.15
563-58-6	1,1-Dichloropropene	U	1.15	ug/kg	0.344	1.15
56-23-5	Carbon tetrachloride	U	1.15	ug/kg	0.344	1.15
107-06-2	1,2-Dichloroethane	U	1.15	ug/kg	0.344	1.15
71-43-2	Benzene	U	1.15	ug/kg	0.344	1.15
79-01-6	Trichloroethylene	U	1.15	ug/kg	0.378	1.15
78-87-5	1,2-Dichloropropane	U	1.15	ug/kg	0.344	1.15
75-27-4	Bromodichloromethane	U	1.15	ug/kg	0.344	1.15
74-95-3	Dibromomethane	U	1.15	ug/kg	0.344	1.15
108-10-1	4-Methyl-2-pentanone	U	5.73	ug/kg	1.43	5.73
10061-01-5	cis-1,3-Dichloropropylene	U	1.15	ug/kg	0.344	1.15
108-88-3	Toluene	U	1.15	ug/kg	0.344	1.15
10061-02-6	trans-1,3-Dichloropropylene	U	1.15	ug/kg	0.344	1.15
79-00-5	1,1,2-Trichloroethane	U	1.15	ug/kg	0.344	1.15
591-78-6	2-Hexanone	U	5.73	ug/kg	1.72	5.73
142-28-9	1,3-Dichloropropane	U	1.15	ug/kg	0.344	1.15
127-18-4	Tetrachloroethylene	U	1.15	ug/kg	0.344	1.15
124-48-1	Dibromochloromethane	U	1.15	ug/kg	0.344	1.15
106-93-4	1,2-Dibromoethane	U	1.15	ug/kg	0.344	1.15
108-90-7	Chlorobenzene	U	1.15	ug/kg	0.344	1.15

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434006
 Client ID: RE15-10-8355
 Batch ID: 952586
 Run Date: 02/13/2010 00:08
 Prep Date: 02/12/2010 11:09
 Data File: 021210V2.b\2Y537.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.1
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 12.7
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.15	ug/kg	0.344	1.15
179601-23-1	m,p-Xylenes	U	2.29	ug/kg	0.344	2.29
95-47-6	o-Xylene	U	1.15	ug/kg	0.344	1.15
100-42-5	Styrene	U	1.15	ug/kg	0.344	1.15
75-25-2	Bromoform	U	1.15	ug/kg	0.344	1.15
79-34-5	1,1,2,2-Tetrachloroethane	U	1.15	ug/kg	0.344	1.15
96-18-4	1,2,3-Trichloropropane	U	1.15	ug/kg	0.344	1.15
108-86-1	Bromobenzene	U	1.15	ug/kg	0.344	1.15
103-65-1	n-Propylbenzene	U	1.15	ug/kg	0.344	1.15
95-49-8	2-Chlorotoluene	U	1.15	ug/kg	0.344	1.15
98-82-8	Isopropylbenzene	U	1.15	ug/kg	0.344	1.15
108-67-8	1,3,5-Trimethylbenzene	U	1.15	ug/kg	0.344	1.15
106-43-4	4-Chlorotoluene	U	1.15	ug/kg	0.344	1.15
98-06-6	tert-Butylbenzene	U	1.15	ug/kg	0.344	1.15
95-63-6	1,2,4-Trimethylbenzene	U	1.15	ug/kg	0.344	1.15
135-98-8	sec-Butylbenzene	U	1.15	ug/kg	0.344	1.15
99-87-6	4-Isopropyltoluene	U	1.15	ug/kg	0.344	1.15
541-73-1	1,3-Dichlorobenzene	U	1.15	ug/kg	0.344	1.15
106-46-7	1,4-Dichlorobenzene	U	1.15	ug/kg	0.344	1.15
104-51-8	n-Butylbenzene	U	1.15	ug/kg	0.344	1.15
96-12-8	1,2-Dibromo-3-chloropropane	U	1.15	ug/kg	0.344	1.15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.73	ug/kg	1.83	5.73
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.15	ug/kg	0.344	1.15
95-50-1	1,2-Dichlorobenzene	U	1.15	ug/kg	0.344	1.15

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.33	28.6	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434007
 Client ID: RE15-10-8351
 Batch ID: 952586
 Run Date: 02/13/2010 00:37
 Prep Date: 02/12/2010 11:10
 Data File: 021210V2.b2Y538.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 15.1
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.18	ug/kg	0.401	1.18
74-87-3	Chloromethane	U	1.18	ug/kg	0.353	1.18
75-01-4	Vinyl chloride	U	1.18	ug/kg	0.353	1.18
74-83-9	Bromomethane	U	1.18	ug/kg	0.353	1.18
75-00-3	Chloroethane	U	1.18	ug/kg	0.353	1.18
75-69-4	Trichlorofluoromethane	U	1.18	ug/kg	0.353	1.18
67-64-1	Acetone	U	5.89	ug/kg	1.96	5.89
75-35-4	1,1-Dichloroethylene	U	1.18	ug/kg	0.353	1.18
74-88-4	Iodomethane	U	5.89	ug/kg	1.89	5.89
75-09-2	Methylene chloride	U	5.89	ug/kg	2.36	5.89
75-15-0	Carbon disulfide	U	5.89	ug/kg	1.47	5.89
156-60-5	trans-1,2-Dichloroethylene	U	1.18	ug/kg	0.353	1.18
75-34-3	1,1-Dichloroethane	U	1.18	ug/kg	0.353	1.18
78-93-3	2-Butanone	U	5.89	ug/kg	1.77	5.89
156-59-2	cis-1,2-Dichloroethylene	U	1.18	ug/kg	0.353	1.18
594-20-7	2,2-Dichloropropane	U	1.18	ug/kg	0.353	1.18
67-66-3	Chloroform	U	1.18	ug/kg	0.353	1.18
74-97-5	Bromochloromethane	U	1.18	ug/kg	0.389	1.18
71-55-6	1,1,1-Trichloroethane	U	1.18	ug/kg	0.353	1.18
563-58-6	1,1-Dichloropropene	U	1.18	ug/kg	0.353	1.18
56-23-5	Carbon tetrachloride	U	1.18	ug/kg	0.353	1.18
107-06-2	1,2-Dichloroethane	U	1.18	ug/kg	0.353	1.18
71-43-2	Benzene	U	1.18	ug/kg	0.353	1.18
79-01-6	Trichloroethylene	U	1.18	ug/kg	0.389	1.18
78-87-5	1,2-Dichloropropane	U	1.18	ug/kg	0.353	1.18
75-27-4	Bromodichloromethane	U	1.18	ug/kg	0.353	1.18
74-95-3	Dibromomethane	U	1.18	ug/kg	0.353	1.18
108-10-1	4-Methyl-2-pentanone	U	5.89	ug/kg	1.47	5.89
10061-01-5	cis-1,3-Dichloropropylene	U	1.18	ug/kg	0.353	1.18
108-88-3	Toluene	U	1.18	ug/kg	0.353	1.18
10061-02-6	trans-1,3-Dichloropropylene	U	1.18	ug/kg	0.353	1.18
79-00-5	1,1,2-Trichloroethane	U	1.18	ug/kg	0.353	1.18
591-78-6	2-Hexanone	U	5.89	ug/kg	1.77	5.89
142-28-9	1,3-Dichloropropane	U	1.18	ug/kg	0.353	1.18
127-18-4	Tetrachloroethylene	U	1.18	ug/kg	0.353	1.18
124-48-1	Dibromochloromethane	U	1.18	ug/kg	0.353	1.18
106-93-4	1,2-Dibromoethane	U	1.18	ug/kg	0.353	1.18
108-90-7	Chlorobenzene	U	1.18	ug/kg	0.353	1.18

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434007
 Client ID: RE15-10-8351
 Batch ID: 952586
 Run Date: 02/13/2010 00:37
 Prep Date: 02/12/2010 11:10
 Data File: 021210V2.b\2V538.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.1
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 % Moisture: 15.1
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.18	ug/kg	0.353	1.18
179601-23-1	m,p-Xylenes	U	2.36	ug/kg	0.353	2.36
95-47-6	o-Xylene	U	1.18	ug/kg	0.353	1.18
100-42-5	Styrene	U	1.18	ug/kg	0.353	1.18
75-25-2	Bromoform	U	1.18	ug/kg	0.353	1.18
79-34-5	1,1,2,2-Tetrachloroethane	U	1.18	ug/kg	0.353	1.18
96-18-4	1,2,3-Trichloropropane	U	1.18	ug/kg	0.353	1.18
108-86-1	Bromobenzene	U	1.18	ug/kg	0.353	1.18
103-65-1	n-Propylbenzene	U	1.18	ug/kg	0.353	1.18
95-49-8	2-Chlorotoluene	U	1.18	ug/kg	0.353	1.18
98-82-8	Isopropylbenzene	U	1.18	ug/kg	0.353	1.18
108-67-8	1,3,5-Trimethylbenzene	U	1.18	ug/kg	0.353	1.18
106-43-4	4-Chlorotoluene	U	1.18	ug/kg	0.353	1.18
98-06-6	tert-Butylbenzene	U	1.18	ug/kg	0.353	1.18
95-63-6	1,2,4-Trimethylbenzene	U	1.18	ug/kg	0.353	1.18
135-98-8	sec-Butylbenzene	U	1.18	ug/kg	0.353	1.18
99-87-6	4-Isopropyltoluene	U	1.18	ug/kg	0.353	1.18
541-73-1	1,3-Dichlorobenzene	U	1.18	ug/kg	0.353	1.18
106-46-7	1,4-Dichlorobenzene	U	1.18	ug/kg	0.353	1.18
104-51-8	n-Butylbenzene	U	1.18	ug/kg	0.353	1.18
96-12-8	1,2-Dibromo-3-chloropropane	U	1.18	ug/kg	0.353	1.18
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.89	ug/kg	1.89	5.89
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.18	ug/kg	0.353	1.18
95-50-1	1,2-Dichlorobenzene	U	1.18	ug/kg	0.353	1.18

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	23.6	ug/kg	0	J
005131-66-8	2-Propanol, 1-butoxy-	17.33	13.9	ug/kg	86	NJ

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434008	Date Received: 02/06/2010 09:15	%Moisture: 23.1
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8350	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/13/2010 01:06	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:11	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y539.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.30	ug/kg	0.442	1.30
74-87-3	Chloromethane	U	1.30	ug/kg	0.390	1.30
75-01-4	Vinyl chloride	U	1.30	ug/kg	0.390	1.30
74-83-9	Bromomethane	U	1.30	ug/kg	0.390	1.30
75-00-3	Chloroethane	U	1.30	ug/kg	0.390	1.30
75-69-4	Trichlorofluoromethane	U	1.30	ug/kg	0.390	1.30
67-64-1	Acetone	U	6.50	ug/kg	2.16	6.50
75-35-4	1,1-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
74-88-4	Iodomethane	U	6.50	ug/kg	2.08	6.50
75-09-2	Methylene chloride	U	6.50	ug/kg	2.60	6.50
75-15-0	Carbon disulfide	U	6.50	ug/kg	1.63	6.50
156-60-5	trans-1,2-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
75-34-3	1,1-Dichloroethane	U	1.30	ug/kg	0.390	1.30
78-93-3	2-Butanone	U	6.50	ug/kg	1.95	6.50
156-59-2	cis-1,2-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
594-20-7	2,2-Dichloropropane	U	1.30	ug/kg	0.390	1.30
67-66-3	Chloroform	U	1.30	ug/kg	0.390	1.30
74-97-5	Bromochloromethane	U	1.30	ug/kg	0.429	1.30
71-55-6	1,1,1-Trichloroethane	U	1.30	ug/kg	0.390	1.30
563-58-6	1,1-Dichloropropene	U	1.30	ug/kg	0.390	1.30
56-23-5	Carbon tetrachloride	U	1.30	ug/kg	0.390	1.30
107-06-2	1,2-Dichloroethane	U	1.30	ug/kg	0.390	1.30
71-43-2	Benzene	U	1.30	ug/kg	0.390	1.30
79-01-6	Trichloroethylene	U	1.30	ug/kg	0.429	1.30
78-87-5	1,2-Dichloropropane	U	1.30	ug/kg	0.390	1.30
75-27-4	Bromodichloromethane	U	1.30	ug/kg	0.390	1.30
74-95-3	Dibromomethane	U	1.30	ug/kg	0.390	1.30
108-10-1	4-Methyl-2-pentanone	U	6.50	ug/kg	1.63	6.50
10061-01-5	cis-1,3-Dichloropropylene	U	1.30	ug/kg	0.390	1.30
108-88-3	Toluene	U	1.30	ug/kg	0.390	1.30
10061-02-6	trans-1,3-Dichloropropylene	U	1.30	ug/kg	0.390	1.30
79-00-5	1,1,2-Trichloroethane	U	1.30	ug/kg	0.390	1.30
591-78-6	2-Hexanone	U	6.50	ug/kg	1.95	6.50
142-28-9	1,3-Dichloropropane	U	1.30	ug/kg	0.390	1.30
127-18-4	Tetrachloroethylene	U	1.30	ug/kg	0.390	1.30
124-48-1	Dibromochloromethane	U	1.30	ug/kg	0.390	1.30
106-93-4	1,2-Dibromoethane	U	1.30	ug/kg	0.390	1.30
108-90-7	Chlorobenzene	U	1.30	ug/kg	0.390	1.30

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434008
 Client ID: RE15-10-8350
 Batch ID: 952586
 Run Date: 02/13/2010 01:06
 Prep Date: 02/12/2010 11:11
 Data File: 021210V2.b\2Y539.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.1
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 23.1
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.30	ug/kg	0.390	1.30
179601-23-1	m,p-Xylenes	U	2.60	ug/kg	0.390	2.60
95-47-6	o-Xylene	U	1.30	ug/kg	0.390	1.30
100-42-5	Styrene	U	1.30	ug/kg	0.390	1.30
75-25-2	Bromoform	U	1.30	ug/kg	0.390	1.30
79-34-5	1,1,2,2-Tetrachloroethane	U	1.30	ug/kg	0.390	1.30
96-18-4	1,2,3-Trichloropropane	U	1.30	ug/kg	0.390	1.30
108-86-1	Bromobenzene	U	1.30	ug/kg	0.390	1.30
103-65-1	n-Propylbenzene	U	1.30	ug/kg	0.390	1.30
95-49-8	2-Chlorotoluene	U	1.30	ug/kg	0.390	1.30
98-82-8	Isopropylbenzene	U	1.30	ug/kg	0.390	1.30
108-67-8	1,3,5-Trimethylbenzene	U	1.30	ug/kg	0.390	1.30
106-43-4	4-Chlorotoluene	U	1.30	ug/kg	0.390	1.30
98-06-6	tert-Butylbenzene	U	1.30	ug/kg	0.390	1.30
95-63-6	1,2,4-Trimethylbenzene	U	1.30	ug/kg	0.390	1.30
135-98-8	sec-Butylbenzene	U	1.30	ug/kg	0.390	1.30
99-87-6	4-Isopropyltoluene	U	1.30	ug/kg	0.390	1.30
541-73-1	1,3-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30
106-46-7	1,4-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30
104-51-8	n-Butylbenzene	U	1.30	ug/kg	0.390	1.30
96-12-8	1,2-Dibromo-3-chloropropane	U	1.30	ug/kg	0.390	1.30
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.50	ug/kg	2.08	6.50
630-20-6	1,1,1,2-Tetrachloroethane	U	1.30	ug/kg	0.390	1.30
95-50-1	1,2-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	26.5	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434009
 Client ID: RE15-10-8357
 Batch ID: 952586
 Run Date: 02/13/2010 01:35
 Prep Date: 02/12/2010 11:12
 Data File: 021210V2.b\2Y540.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 6
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.06	ug/kg	0.362	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.319	1.06
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.319	1.06
74-83-9	Bromomethane	U	1.06	ug/kg	0.319	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.319	1.06
75-69-4	Trichlorofluoromethane	U	1.06	ug/kg	0.319	1.06
67-64-1	Acetone	U	5.32	ug/kg	1.77	5.32
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.319	1.06
74-88-4	Iodomethane	U	5.32	ug/kg	1.70	5.32
75-09-2	Methylene chloride	U	5.32	ug/kg	2.13	5.32
75-15-0	Carbon disulfide	U	5.32	ug/kg	1.33	5.32
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.319	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.319	1.06
78-93-3	2-Butanone	U	5.32	ug/kg	1.59	5.32
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.319	1.06
594-20-7	2,2-Dichloropropane	U	1.06	ug/kg	0.319	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.319	1.06
74-97-5	Bromochloromethane	U	1.06	ug/kg	0.351	1.06
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.319	1.06
563-58-6	1,1-Dichloropropene	U	1.06	ug/kg	0.319	1.06
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.319	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.319	1.06
71-43-2	Benzene	U	1.06	ug/kg	0.319	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.351	1.06
78-87-5	1,2-Dichloropropane	U	1.06	ug/kg	0.319	1.06
75-27-4	Bromodichloromethane	U	1.06	ug/kg	0.319	1.06
74-95-3	Dibromomethane	U	1.06	ug/kg	0.319	1.06
108-10-1	4-Methyl-2-pentanone	U	5.32	ug/kg	1.33	5.32
10061-01-5	cis-1,3-Dichloropropylene	U	1.06	ug/kg	0.319	1.06
108-88-3	Toluene	U	1.06	ug/kg	0.319	1.06
10061-02-6	trans-1,3-Dichloropropylene	U	1.06	ug/kg	0.319	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.319	1.06
591-78-6	2-Hexanone	U	5.32	ug/kg	1.59	5.32
142-28-9	1,3-Dichloropropane	U	1.06	ug/kg	0.319	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.319	1.06
124-48-1	Dibromochloromethane	U	1.06	ug/kg	0.319	1.06
106-93-4	1,2-Dibromoethane	U	1.06	ug/kg	0.319	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.319	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434009	Date Received: 02/06/2010 09:15	%Moisture: 6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8357	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.1	Dilution: 1
Run Date: 02/13/2010 01:35	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:12	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y540.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.319	1.06
179601-23-1	m,p-Xylenes	U	2.13	ug/kg	0.319	2.13
95-47-6	o-Xylene	U	1.06	ug/kg	0.319	1.06
100-42-5	Styrene	U	1.06	ug/kg	0.319	1.06
75-25-2	Bromoform	U	1.06	ug/kg	0.319	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.319	1.06
96-18-4	1,2,3-Trichloropropane	U	1.06	ug/kg	0.319	1.06
108-86-1	Bromobenzene	U	1.06	ug/kg	0.319	1.06
103-65-1	n-Propylbenzene	U	1.06	ug/kg	0.319	1.06
95-49-8	2-Chlorotoluene	U	1.06	ug/kg	0.319	1.06
98-82-8	Isopropylbenzene	U	1.06	ug/kg	0.319	1.06
108-67-8	1,3,5-Trimethylbenzene	U	1.06	ug/kg	0.319	1.06
106-43-4	4-Chlorotoluene	U	1.06	ug/kg	0.319	1.06
98-06-6	tert-Butylbenzene	U	1.06	ug/kg	0.319	1.06
95-63-6	1,2,4-Trimethylbenzene	U	1.06	ug/kg	0.319	1.06
135-98-8	sec-Butylbenzene	U	1.06	ug/kg	0.319	1.06
99-87-6	4-Isopropyltoluene	U	1.06	ug/kg	0.319	1.06
541-73-1	1,3-Dichlorobenzene	U	1.06	ug/kg	0.319	1.06
106-46-7	1,4-Dichlorobenzene	U	1.06	ug/kg	0.319	1.06
104-51-8	n-Butylbenzene	U	1.06	ug/kg	0.319	1.06
96-12-8	1,2-Dibromo-3-chloropropane	U	1.06	ug/kg	0.319	1.06
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.32	ug/kg	1.70	5.32
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.06	ug/kg	0.319	1.06
95-50-1	1,2-Dichlorobenzene	U	1.06	ug/kg	0.319	1.06

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	21.2	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434010
 Client ID: RE15-10-8338
 Batch ID: 952586
 Run Date: 02/15/2010 11:00
 Prep Date: 02/15/2010 08:03
 Data File: 021510V2.b\2Z110.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2J
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 22.4
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.29	ug/kg	0.438	1.29
74-87-3	Chloromethane	U	1.29	ug/kg	0.386	1.29
75-01-4	Vinyl chloride	U	1.29	ug/kg	0.386	1.29
74-83-9	Bromomethane	U	1.29	ug/kg	0.386	1.29
75-00-3	Chloroethane	U	1.29	ug/kg	0.386	1.29
75-69-4	Trichlorofluoromethane	U	1.29	ug/kg	0.386	1.29
67-64-1	Acetone	U	6.44	ug/kg	2.14	6.44
75-35-4	1,1-Dichloroethylene	U	1.29	ug/kg	0.386	1.29
74-88-4	Iodomethane	U	6.44	ug/kg	2.06	6.44
75-09-2	Methylene chloride	U	6.44	ug/kg	2.58	6.44
75-15-0	Carbon disulfide	U	6.44	ug/kg	1.61	6.44
156-60-5	trans-1,2-Dichloroethylene	U	1.29	ug/kg	0.386	1.29
75-34-3	1,1-Dichloroethane	U	1.29	ug/kg	0.386	1.29
78-93-3	2-Butanone	U	6.44	ug/kg	1.93	6.44
156-59-2	cis-1,2-Dichloroethylene	U	1.29	ug/kg	0.386	1.29
594-20-7	2,2-Dichloropropane	U	1.29	ug/kg	0.386	1.29
67-66-3	Chloroform	U	1.29	ug/kg	0.386	1.29
74-97-5	Bromochloromethane	U	1.29	ug/kg	0.425	1.29
71-55-6	1,1,1-Trichloroethane	U	1.29	ug/kg	0.386	1.29
563-58-6	1,1-Dichloropropene	U	1.29	ug/kg	0.386	1.29
56-23-5	Carbon tetrachloride	U	1.29	ug/kg	0.386	1.29
107-06-2	1,2-Dichloroethane	U	1.29	ug/kg	0.386	1.29
71-43-2	Benzene	U	1.29	ug/kg	0.386	1.29
79-01-6	Trichloroethylene	U	1.29	ug/kg	0.425	1.29
78-87-5	1,2-Dichloropropane	U	1.29	ug/kg	0.386	1.29
75-27-4	Bromodichloromethane	U	1.29	ug/kg	0.386	1.29
74-95-3	Dibromomethane	U	1.29	ug/kg	0.386	1.29
108-10-1	4-Methyl-2-pentanone	U	6.44	ug/kg	1.61	6.44
10061-01-5	cis-1,3-Dichloropropylene	U	1.29	ug/kg	0.386	1.29
108-88-3	Toluene	U	1.29	ug/kg	0.386	1.29
10061-02-6	trans-1,3-Dichloropropylene	U	1.29	ug/kg	0.386	1.29
79-00-5	1,1,2-Trichloroethane	U	1.29	ug/kg	0.386	1.29
591-78-6	2-Hexanone	U	6.44	ug/kg	1.93	6.44
142-28-9	1,3-Dichloropropane	U	1.29	ug/kg	0.386	1.29
127-18-4	Tetrachloroethylene	U	1.29	ug/kg	0.386	1.29
124-48-1	Dibromochloromethane	U	1.29	ug/kg	0.386	1.29
106-93-4	1,2-Dibromoethane	U	1.29	ug/kg	0.386	1.29
108-90-7	Chlorobenzene	U	1.29	ug/kg	0.386	1.29

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434010
 Client ID: RE15-10-8338
 Batch ID: 952586
 Run Date: 02/15/2010 11:00
 Prep Date: 02/15/2010 08:03
 Data File: 021510V2.b\2Z110.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.1
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 22.4
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.29	ug/kg	0.386	1.29
179601-23-1	m,p-Xylenes	U	2.58	ug/kg	0.386	2.58
95-47-6	o-Xylene	U	1.29	ug/kg	0.386	1.29
100-42-5	Styrene	U	1.29	ug/kg	0.386	1.29
75-25-2	Bromoform	U	1.29	ug/kg	0.386	1.29
79-34-5	1,1,2,2-Tetrachloroethane	U	1.29	ug/kg	0.386	1.29
96-18-4	1,2,3-Trichloropropane	U	1.29	ug/kg	0.386	1.29
108-86-1	Bromobenzene	U	1.29	ug/kg	0.386	1.29
103-65-1	n-Propylbenzene	U	1.29	ug/kg	0.386	1.29
95-49-8	2-Chlorotoluene	U	1.29	ug/kg	0.386	1.29
98-82-8	Isopropylbenzene	U	1.29	ug/kg	0.386	1.29
108-67-8	1,3,5-Trimethylbenzene	U	1.29	ug/kg	0.386	1.29
106-43-4	4-Chlorotoluene	U	1.29	ug/kg	0.386	1.29
98-06-6	tert-Butylbenzene	U	1.29	ug/kg	0.386	1.29
95-63-6	1,2,4-Trimethylbenzene	U	1.29	ug/kg	0.386	1.29
135-98-8	sec-Butylbenzene	U	1.29	ug/kg	0.386	1.29
99-87-6	4-Isopropyltoluene	J	0.477	ug/kg	0.386	1.29
541-73-1	1,3-Dichlorobenzene	U	1.29	ug/kg	0.386	1.29
106-46-7	1,4-Dichlorobenzene	U	1.29	ug/kg	0.386	1.29
104-51-8	n-Butylbenzene	U	1.29	ug/kg	0.386	1.29
96-12-8	1,2-Dibromo-3-chloropropane	U	1.29	ug/kg	0.386	1.29
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane Trichlorotrifluoroethane	U	6.44	ug/kg	2.06	6.44
630-20-6	1,1,1,2-Tetrachloroethane	U	1.29	ug/kg	0.386	1.29
95-50-1	1,2-Dichlorobenzene	U	1.29	ug/kg	0.386	1.29

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.32	30.5	ug/kg	0	J
	unknown hydrocarbon	17.06	13.7	ug/kg	0	J
	unknown hydrocarbon	18.11	15.6	ug/kg	0	J
	unknown siloxane	21.24	21.3	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434011
 Client ID: RE15-10-8336
 Batch ID: 952586
 Run Date: 02/15/2010 13:26
 Prep Date: 02/15/2010 12:00
 Data File: 021510V2.b\2Z115.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.1
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 17.6
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.21	ug/kg	0.412	1.21
74-87-3	Chloromethane	U	1.21	ug/kg	0.364	1.21
75-01-4	Vinyl chloride	U	1.21	ug/kg	0.364	1.21
74-83-9	Bromomethane	U	1.21	ug/kg	0.364	1.21
75-00-3	Chloroethane	U	1.21	ug/kg	0.364	1.21
75-69-4	Trichlorofluoromethane	U	1.21	ug/kg	0.364	1.21
67-64-1	Acetone	U	6.06	ug/kg	2.01	6.06
75-35-4	1,1-Dichloroethylene	U	1.21	ug/kg	0.364	1.21
74-88-4	Iodomethane	U	6.06	ug/kg	1.94	6.06
75-09-2	Methylene chloride	U	6.06	ug/kg	2.43	6.06
75-15-0	Carbon disulfide	U	6.06	ug/kg	1.52	6.06
156-60-5	trans-1,2-Dichloroethylene	U	1.21	ug/kg	0.364	1.21
75-34-3	1,1-Dichloroethane	U	1.21	ug/kg	0.364	1.21
78-93-3	2-Butanone	U	6.06	ug/kg	1.82	6.06
156-59-2	cis-1,2-Dichloroethylene	U	1.21	ug/kg	0.364	1.21
594-20-7	2,2-Dichloropropane	U	1.21	ug/kg	0.364	1.21
67-66-3	Chloroform	U	1.21	ug/kg	0.364	1.21
74-97-5	Bromochloromethane	U	1.21	ug/kg	0.400	1.21
71-55-6	1,1,1-Trichloroethane	U	1.21	ug/kg	0.364	1.21
563-58-6	1,1-Dichloropropene	U	1.21	ug/kg	0.364	1.21
56-23-5	Carbon tetrachloride	U	1.21	ug/kg	0.364	1.21
107-06-2	1,2-Dichloroethane	U	1.21	ug/kg	0.364	1.21
71-43-2	Benzene	U	1.21	ug/kg	0.364	1.21
79-01-6	Trichloroethylene	U	1.21	ug/kg	0.400	1.21
78-87-5	1,2-Dichloropropane	U	1.21	ug/kg	0.364	1.21
75-27-4	Bromodichloromethane	U	1.21	ug/kg	0.364	1.21
74-95-3	Dibromomethane	U	1.21	ug/kg	0.364	1.21
108-10-1	4-Methyl-2-pentanone	U	6.06	ug/kg	1.52	6.06
10061-01-5	cis-1,3-Dichloropropylene	U	1.21	ug/kg	0.364	1.21
108-88-3	Toluene	U	1.21	ug/kg	0.364	1.21
10061-02-6	trans-1,3-Dichloropropylene	U	1.21	ug/kg	0.364	1.21
79-00-5	1,1,2-Trichloroethane	U	1.21	ug/kg	0.364	1.21
591-78-6	2-Hexanone	U	6.06	ug/kg	1.82	6.06
142-28-9	1,3-Dichloropropane	U	1.21	ug/kg	0.364	1.21
127-18-4	Tetrachloroethylene	U	1.21	ug/kg	0.364	1.21
124-48-1	Dibromochloromethane	U	1.21	ug/kg	0.364	1.21
106-93-4	1,2-Dibromoethane	U	1.21	ug/kg	0.364	1.21
108-90-7	Chlorobenzene	U	1.21	ug/kg	0.364	1.21

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
Lab Sample ID: 246434011

Client ID: RE15-10-8336
Batch ID: 952586
Run Date: 02/15/2010 13:26
Prep Date: 02/15/2010 12:00
Data File: 021510V2.b\2Z115.D

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8260B
Inst: VOA2.J
Analyst: CDS1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 17.6
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.21	ug/kg	0.364	1.21
179601-23-1	m,p-Xylenes	U	2.43	ug/kg	0.364	2.43
95-47-6	o-Xylene	U	1.21	ug/kg	0.364	1.21
100-42-5	Styrene	U	1.21	ug/kg	0.364	1.21
75-25-2	Bromoform	U	1.21	ug/kg	0.364	1.21
79-34-5	1,1,2,2-Tetrachloroethane	U	1.21	ug/kg	0.364	1.21
96-18-4	1,2,3-Trichloropropane	U	1.21	ug/kg	0.364	1.21
108-86-1	Bromobenzene	U	1.21	ug/kg	0.364	1.21
103-65-1	n-Propylbenzene	U	1.21	ug/kg	0.364	1.21
95-49-8	2-Chlorotoluene	U	1.21	ug/kg	0.364	1.21
98-82-8	Isopropylbenzene	U	1.21	ug/kg	0.364	1.21
108-67-8	1,3,5-Trimethylbenzene	U	1.21	ug/kg	0.364	1.21
106-43-4	4-Chlorotoluene	U	1.21	ug/kg	0.364	1.21
98-06-6	tert-Butylbenzene	U	1.21	ug/kg	0.364	1.21
95-63-6	1,2,4-Trimethylbenzene	U	1.21	ug/kg	0.364	1.21
135-98-8	sec-Butylbenzene	U	1.21	ug/kg	0.364	1.21
99-87-6	4-Isopropyltoluene	U	1.21	ug/kg	0.364	1.21
541-73-1	1,3-Dichlorobenzene	U	1.21	ug/kg	0.364	1.21
106-46-7	1,4-Dichlorobenzene	U	1.21	ug/kg	0.364	1.21
104-51-8	n-Butylbenzene	U	1.21	ug/kg	0.364	1.21
96-12-8	1,2-Dibromo-3-chloropropane	U	1.21	ug/kg	0.364	1.21
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.06	ug/kg	1.94	6.06
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.21	ug/kg	0.364	1.21
95-50-1	1,2-Dichlorobenzene	U	1.21	ug/kg	0.364	1.21

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	26.1	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434012
 Client ID: RE15-10-8339
 Batch ID: 952586
 Run Date: 02/13/2010 03:02
 Prep Date: 02/12/2010 11:15
 Data File: 021210V2.b\2Y543.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.1
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 6
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.06	ug/kg	0.362	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.319	1.06
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.319	1.06
74-83-9	Bromomethane	U	1.06	ug/kg	0.319	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.319	1.06
75-69-4	Trichlorofluoromethane	U	1.06	ug/kg	0.319	1.06
67-64-1	Acetone		20.8	ug/kg	1.77	5.32
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.319	1.06
74-88-4	Iodomethane	U	5.32	ug/kg	1.70	5.32
75-09-2	Methylene chloride	U	5.32	ug/kg	2.13	5.32
75-15-0	Carbon disulfide	U	5.32	ug/kg	1.33	5.32
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.319	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.319	1.06
78-93-3	2-Butanone	U	5.32	ug/kg	1.60	5.32
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.319	1.06
594-20-7	2,2-Dichloropropane	U	1.06	ug/kg	0.319	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.319	1.06
74-97-5	Bromochloromethane	U	1.06	ug/kg	0.351	1.06
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.319	1.06
563-58-6	1,1-Dichloropropene	U	1.06	ug/kg	0.319	1.06
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.319	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.319	1.06
71-43-2	Benzene	U	1.06	ug/kg	0.319	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.351	1.06
78-87-5	1,2-Dichloropropane	U	1.06	ug/kg	0.319	1.06
75-27-4	Bromodichloromethane	U	1.06	ug/kg	0.319	1.06
74-95-3	Dibromomethane	U	1.06	ug/kg	0.319	1.06
108-10-1	4-Methyl-2-pentanone	U	5.32	ug/kg	1.33	5.32
10061-01-5	cis-1,3-Dichloropropylene	U	1.06	ug/kg	0.319	1.06
108-88-3	Toluene	J	0.362	ug/kg	0.319	1.06
10061-02-6	trans-1,3-Dichloropropylene	U	1.06	ug/kg	0.319	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.319	1.06
591-78-6	2-Hexanone	U	5.32	ug/kg	1.60	5.32
142-28-9	1,3-Dichloropropane	U	1.06	ug/kg	0.319	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.319	1.06
124-48-1	Dibromochloromethane	U	1.06	ug/kg	0.319	1.06
106-93-4	1,2-Dibromoethane	U	1.06	ug/kg	0.319	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.319	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434012	Date Received: 02/06/2010 09:15	%Moisture: 6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8339	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.1	Dilution: 1
Run Date: 02/13/2010 03:02	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:15	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y543.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.319	1.06
179601-23-1	m,p-Xylenes	U	2.13	ug/kg	0.319	2.13
95-47-6	o-Xylene	U	1.06	ug/kg	0.319	1.06
100-42-5	Styrene	U	1.06	ug/kg	0.319	1.06
75-25-2	Bromoform	U	1.06	ug/kg	0.319	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.319	1.06
96-18-4	1,2,3-Trichloropropane	U	1.06	ug/kg	0.319	1.06
108-86-1	Bromobenzene	U	1.06	ug/kg	0.319	1.06
103-65-1	n-Propylbenzene	U	1.06	ug/kg	0.319	1.06
95-49-8	2-Chlorotoluene	U	1.06	ug/kg	0.319	1.06
98-82-8	Isopropylbenzene	U	1.06	ug/kg	0.319	1.06
108-67-8	1,3,5-Trimethylbenzene	U	1.06	ug/kg	0.319	1.06
106-43-4	4-Chlorotoluene	U	1.06	ug/kg	0.319	1.06
98-06-6	tert-Butylbenzene	U	1.06	ug/kg	0.319	1.06
95-63-6	1,2,4-Trimethylbenzene	U	1.06	ug/kg	0.319	1.06
135-98-8	sec-Butylbenzene	U	1.06	ug/kg	0.319	1.06
99-87-6	4-Isopropyltoluene	J	0.553	ug/kg	0.319	1.06
541-73-1	1,3-Dichlorobenzene	U	1.06	ug/kg	0.319	1.06
106-46-7	1,4-Dichlorobenzene	U	1.06	ug/kg	0.319	1.06
104-51-8	n-Butylbenzene	U	1.06	ug/kg	0.319	1.06
96-12-8	1,2-Dibromo-3-chloropropane	U	1.06	ug/kg	0.319	1.06
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.32	ug/kg	1.70	5.32
630-20-6	1,1,1,2-Tetrachloroethane	U	1.06	ug/kg	0.319	1.06
95-50-1	1,2-Dichlorobenzene	U	1.06	ug/kg	0.319	1.06

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	24.6	ug/kg	0	J
	unknown hydrocarbon	17.06	17.8	ug/kg	0	J
	unknown hydrocarbon	18.11	17.5	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434013	Date Received: 02/06/2010 09:15	%Moisture: 11.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8337	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/15/2010 11:59	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/15/2010 08:05	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021510V2.b\2Z112.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.13	ug/kg	0.384	1.13
74-87-3	Chloromethane	U	1.13	ug/kg	0.339	1.13
75-01-4	Vinyl chloride	U	1.13	ug/kg	0.339	1.13
74-83-9	Bromomethane	U	1.13	ug/kg	0.339	1.13
75-00-3	Chloroethane	U	1.13	ug/kg	0.339	1.13
75-69-4	Trichlorofluoromethane	U	1.13	ug/kg	0.339	1.13
67-64-1	Acetone	U	5.64	ug/kg	1.87	5.64
75-35-4	1,1-Dichloroethylene	U	1.13	ug/kg	0.339	1.13
74-88-4	Iodomethane	U	5.64	ug/kg	1.81	5.64
75-09-2	Methylene chloride	U	5.64	ug/kg	2.26	5.64
75-15-0	Carbon disulfide	U	5.64	ug/kg	1.41	5.64
156-60-5	trans-1,2-Dichloroethylene	U	1.13	ug/kg	0.339	1.13
75-34-3	1,1-Dichloroethane	U	1.13	ug/kg	0.339	1.13
78-93-3	2-Butanone	U	5.64	ug/kg	1.69	5.64
156-59-2	cis-1,2-Dichloroethylene	U	1.13	ug/kg	0.339	1.13
594-20-7	2,2-Dichloropropane	U	1.13	ug/kg	0.339	1.13
67-66-3	Chloroform	U	1.13	ug/kg	0.339	1.13
74-97-5	Bromochloromethane	U	1.13	ug/kg	0.373	1.13
71-55-6	1,1,1-Trichloroethane	U	1.13	ug/kg	0.339	1.13
563-58-6	1,1-Dichloropropene	U	1.13	ug/kg	0.339	1.13
56-23-5	Carbon tetrachloride	U	1.13	ug/kg	0.339	1.13
107-06-2	1,2-Dichloroethane	U	1.13	ug/kg	0.339	1.13
71-43-2	Benzene	U	1.13	ug/kg	0.339	1.13
79-01-6	Trichloroethylene	U	1.13	ug/kg	0.373	1.13
78-87-5	1,2-Dichloropropane	U	1.13	ug/kg	0.339	1.13
75-27-4	Bromodichloromethane	U	1.13	ug/kg	0.339	1.13
74-95-3	Dibromomethane	U	1.13	ug/kg	0.339	1.13
108-10-1	4-Methyl-2-pentanone	U	5.64	ug/kg	1.41	5.64
10061-01-5	cis-1,3-Dichloropropylene	U	1.13	ug/kg	0.339	1.13
108-88-3	Toluene	U	1.13	ug/kg	0.339	1.13
10061-02-6	trans-1,3-Dichloropropylene	U	1.13	ug/kg	0.339	1.13
79-00-5	1,1,2-Trichloroethane	U	1.13	ug/kg	0.339	1.13
591-78-6	2-Hexanone	U	5.64	ug/kg	1.69	5.64
142-28-9	1,3-Dichloropropane	U	1.13	ug/kg	0.339	1.13
127-18-4	Tetrachloroethylene	U	1.13	ug/kg	0.339	1.13
124-48-1	Dibromochloromethane	U	1.13	ug/kg	0.339	1.13
106-93-4	1,2-Dibromoethane	U	1.13	ug/kg	0.339	1.13
108-90-7	Chlorobenzene	U	1.13	ug/kg	0.339	1.13

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434013	Date Received: 02/06/2010 09:15	%Moisture: 11.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8337	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/15/2010 11:59	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/15/2010 08:05	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021510V2.b\2Z112.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.13	ug/kg	0.339	1.13
179601-23-1	m,p-Xylenes	U	2.26	ug/kg	0.339	2.26
95-47-6	o-Xylene	U	1.13	ug/kg	0.339	1.13
100-42-5	Styrene	U	1.13	ug/kg	0.339	1.13
75-25-2	Bromoform	U	1.13	ug/kg	0.339	1.13
79-34-5	1,1,2,2-Tetrachloroethane	U	1.13	ug/kg	0.339	1.13
96-18-4	1,2,3-Trichloropropane	U	1.13	ug/kg	0.339	1.13
108-86-1	Bromobenzene	U	1.13	ug/kg	0.339	1.13
103-65-1	n-Propylbenzene	U	1.13	ug/kg	0.339	1.13
95-49-8	2-Chlorotoluene	U	1.13	ug/kg	0.339	1.13
98-82-8	Isopropylbenzene	U	1.13	ug/kg	0.339	1.13
108-67-8	1,3,5-Trimethylbenzene	U	1.13	ug/kg	0.339	1.13
106-43-4	4-Chlorotoluene	U	1.13	ug/kg	0.339	1.13
98-06-6	tert-Butylbenzene	U	1.13	ug/kg	0.339	1.13
95-63-6	1,2,4-Trimethylbenzene	U	1.13	ug/kg	0.339	1.13
135-98-8	sec-Butylbenzene	U	1.13	ug/kg	0.339	1.13
99-87-6	4-Isopropyltoluene	U	1.13	ug/kg	0.339	1.13
541-73-1	1,3-Dichlorobenzene	U	1.13	ug/kg	0.339	1.13
106-46-7	1,4-Dichlorobenzene	U	1.13	ug/kg	0.339	1.13
104-51-8	n-Butylbenzene	U	1.13	ug/kg	0.339	1.13
96-12-8	1,2-Dibromo-3-chloropropane	U	1.13	ug/kg	0.339	1.13
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.64	ug/kg	1.81	5.64
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.13	ug/kg	0.339	1.13
95-50-1	1,2-Dichlorobenzene	U	1.13	ug/kg	0.339	1.13

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.33	21.2	ug/kg	0	J
	unknown siloxane	19.16	10.8	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434014
 Client ID: RE15-10-8375
 Batch ID: 952586
 Run Date: 02/13/2010 04:00
 Prep Date: 02/12/2010 11:17
 Data File: 021210V2.b\2Y545.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.1
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 19.7
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.25	ug/kg	0.424	1.25
74-87-3	Chloromethane	U	1.25	ug/kg	0.374	1.25
75-01-4	Vinyl chloride	U	1.25	ug/kg	0.374	1.25
74-83-9	Bromomethane	U	1.25	ug/kg	0.374	1.25
75-00-3	Chloroethane	U	1.25	ug/kg	0.374	1.25
75-69-4	Trichlorofluoromethane	U	1.25	ug/kg	0.374	1.25
67-64-1	Acetone	U	6.23	ug/kg	2.07	6.23
75-35-4	1,1-Dichloroethylene	U	1.25	ug/kg	0.374	1.25
74-88-4	Iodomethane	U	6.23	ug/kg	1.99	6.23
75-09-2	Methylene chloride	U	6.23	ug/kg	2.49	6.23
75-15-0	Carbon disulfide	U	6.23	ug/kg	1.56	6.23
156-60-5	trans-1,2-Dichloroethylene	U	1.25	ug/kg	0.374	1.25
75-34-3	1,1-Dichloroethane	U	1.25	ug/kg	0.374	1.25
78-93-3	2-Butanone	U	6.23	ug/kg	1.87	6.23
156-59-2	cis-1,2-Dichloroethylene	U	1.25	ug/kg	0.374	1.25
594-20-7	2,2-Dichloropropane	U	1.25	ug/kg	0.374	1.25
67-66-3	Chloroform	U	1.25	ug/kg	0.374	1.25
74-97-5	Bromochloromethane	U	1.25	ug/kg	0.411	1.25
71-55-6	1,1,1-Trichloroethane	U	1.25	ug/kg	0.374	1.25
563-58-6	1,1-Dichloropropene	U	1.25	ug/kg	0.374	1.25
56-23-5	Carbon tetrachloride	U	1.25	ug/kg	0.374	1.25
107-06-2	1,2-Dichloroethane	U	1.25	ug/kg	0.374	1.25
71-43-2	Benzene	U	1.25	ug/kg	0.374	1.25
79-01-6	Trichloroethylene	U	1.25	ug/kg	0.411	1.25
78-87-5	1,2-Dichloropropane	U	1.25	ug/kg	0.374	1.25
75-27-4	Bromodichloromethane	U	1.25	ug/kg	0.374	1.25
74-95-3	Dibromomethane	U	1.25	ug/kg	0.374	1.25
108-10-1	4-Methyl-2-pentanone	U	6.23	ug/kg	1.56	6.23
10061-01-5	cis-1,3-Dichloropropylene	U	1.25	ug/kg	0.374	1.25
108-88-3	Toluene	U	1.25	ug/kg	0.374	1.25
10061-02-6	trans-1,3-Dichloropropylene	U	1.25	ug/kg	0.374	1.25
79-00-5	1,1,2-Trichloroethane	U	1.25	ug/kg	0.374	1.25
591-78-6	2-Hexanone	U	6.23	ug/kg	1.87	6.23
142-28-9	1,3-Dichloropropane	U	1.25	ug/kg	0.374	1.25
127-18-4	Tetrachloroethylene	U	1.25	ug/kg	0.374	1.25
124-48-1	Dibromochloromethane	U	1.25	ug/kg	0.374	1.25
106-93-4	1,2-Dibromoethane	U	1.25	ug/kg	0.374	1.25
108-90-7	Chlorobenzene	U	1.25	ug/kg	0.374	1.25

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434014

Client ID: RE15-10-8375
Batch ID: 952586
Run Date: 02/13/2010 04:00
Prep Date: 02/12/2010 11:17
Data File: 021210V2.b\2Y545.D

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8260B
Inst: VOA2.1
Analyst: CDS1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 19.7
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.25	ug/kg	0.374	1.25
179601-23-1	m,p-Xylenes	U	2.49	ug/kg	0.374	2.49
95-47-6	o-Xylene	U	1.25	ug/kg	0.374	1.25
100-42-5	Styrene	U	1.25	ug/kg	0.374	1.25
75-25-2	Bromoform	U	1.25	ug/kg	0.374	1.25
79-34-5	1,1,2,2-Tetrachloroethane	U	1.25	ug/kg	0.374	1.25
96-18-4	1,2,3-Trichloropropane	U	1.25	ug/kg	0.374	1.25
108-86-1	Bromobenzene	U	1.25	ug/kg	0.374	1.25
103-65-1	n-Propylbenzene	U	1.25	ug/kg	0.374	1.25
95-49-8	2-Chlorotoluene	U	1.25	ug/kg	0.374	1.25
98-82-8	Isopropylbenzene	U	1.25	ug/kg	0.374	1.25
108-67-8	1,3,5-Trimethylbenzene	U	1.25	ug/kg	0.374	1.25
106-43-4	4-Chlorotoluene	U	1.25	ug/kg	0.374	1.25
98-06-6	tert-Butylbenzene	U	1.25	ug/kg	0.374	1.25
95-63-6	1,2,4-Trimethylbenzene	U	1.25	ug/kg	0.374	1.25
135-98-8	sec-Butylbenzene	U	1.25	ug/kg	0.374	1.25
99-87-6	4-Isopropyltoluene	U	1.25	ug/kg	0.374	1.25
541-73-1	1,3-Dichlorobenzene	U	1.25	ug/kg	0.374	1.25
106-46-7	1,4-Dichlorobenzene	U	1.25	ug/kg	0.374	1.25
104-51-8	n-Butylbenzene	U	1.25	ug/kg	0.374	1.25
96-12-8	1,2-Dibromo-3-chloropropane	U	1.25	ug/kg	0.374	1.25
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.23	ug/kg	1.99	6.23
630-20-6	1,1,1,2-Tetrachloroethane	U	1.25	ug/kg	0.374	1.25
95-50-1	1,2-Dichlorobenzene	U	1.25	ug/kg	0.374	1.25

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.33	10.7	ug/kg	0	J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434015
 Client ID: RE15-10-8374
 Batch ID: 952586
 Run Date: 02/15/2010 12:27
 Prep Date: 02/15/2010 08:06
 Data File: 021510V2.b\2Z113.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL.010
 Method: SW846 8260B
 Inst: VOA2.1
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 6.3
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.07	ug/kg	0.363	1.07
74-87-3	Chloromethane	U	1.07	ug/kg	0.320	1.07
75-01-4	Vinyl chloride	U	1.07	ug/kg	0.320	1.07
74-83-9	Bromomethane	U	1.07	ug/kg	0.320	1.07
75-00-3	Chloroethane	U	1.07	ug/kg	0.320	1.07
75-69-4	Trichlorofluoromethane	U	1.07	ug/kg	0.320	1.07
67-64-1	Acetone		48.4	ug/kg	1.77	5.34
75-35-4	1,1-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
74-88-4	Iodomethane	U	5.34	ug/kg	1.71	5.34
75-09-2	Methylene chloride	U	5.34	ug/kg	2.13	5.34
75-15-0	Carbon disulfide	U	5.34	ug/kg	1.33	5.34
156-60-5	trans-1,2-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
75-34-3	1,1-Dichloroethane	U	1.07	ug/kg	0.320	1.07
78-93-3	2-Butanone	U	5.34	ug/kg	1.60	5.34
156-59-2	cis-1,2-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
594-20-7	2,2-Dichloropropane	U	1.07	ug/kg	0.320	1.07
67-66-3	Chloroform	U	1.07	ug/kg	0.320	1.07
74-97-5	Bromochloromethane	U	1.07	ug/kg	0.352	1.07
71-55-6	1,1,1-Trichloroethane	U	1.07	ug/kg	0.320	1.07
563-58-6	1,1-Dichloropropene	U	1.07	ug/kg	0.320	1.07
56-23-5	Carbon tetrachloride	U	1.07	ug/kg	0.320	1.07
107-06-2	1,2-Dichloroethane	U	1.07	ug/kg	0.320	1.07
71-43-2	Benzene	U	1.07	ug/kg	0.320	1.07
79-01-6	Trichloroethylene	U	1.07	ug/kg	0.352	1.07
78-87-5	1,2-Dichloropropane	U	1.07	ug/kg	0.320	1.07
75-27-4	Bromodichloromethane	U	1.07	ug/kg	0.320	1.07
74-95-3	Dibromomethane	U	1.07	ug/kg	0.320	1.07
108-10-1	4-Methyl-2-pentanone	U	5.34	ug/kg	1.33	5.34
10061-01-5	cis-1,3-Dichloropropylene	U	1.07	ug/kg	0.320	1.07
108-88-3	Toluene	U	1.07	ug/kg	0.320	1.07
10061-02-6	trans-1,3-Dichloropropylene	U	1.07	ug/kg	0.320	1.07
79-00-5	1,1,2-Trichloroethane	U	1.07	ug/kg	0.320	1.07
591-78-6	2-Hexanone	U	5.34	ug/kg	1.60	5.34
142-28-9	1,3-Dichloropropane	U	1.07	ug/kg	0.320	1.07
127-18-4	Tetrachloroethylene	U	1.07	ug/kg	0.320	1.07
124-48-1	Dibromochloromethane	U	1.07	ug/kg	0.320	1.07
106-93-4	1,2-Dibromoethane	U	1.07	ug/kg	0.320	1.07
108-90-7	Chlorobenzene	U	1.07	ug/kg	0.320	1.07

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434015
 Client ID: RE15-10-8374
 Batch ID: 952586
 Run Date: 02/15/2010 12:27
 Prep Date: 02/15/2010 08:06
 Data File: 021510V2.b\2Z113.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.1
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 6.3
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.07	ug/kg	0.320	1.07
179601-23-1	m,p-Xylenes	U	2.13	ug/kg	0.320	2.13
95-47-6	o-Xylene	U	1.07	ug/kg	0.320	1.07
100-42-5	Styrene	U	1.07	ug/kg	0.320	1.07
75-25-2	Bromoform	U	1.07	ug/kg	0.320	1.07
79-34-5	1,1,2,2-Tetrachloroethane	U	1.07	ug/kg	0.320	1.07
96-18-4	1,2,3-Trichloropropane	U	1.07	ug/kg	0.320	1.07
108-86-1	Bromobenzene	U	1.07	ug/kg	0.320	1.07
103-65-1	n-Propylbenzene	U	1.07	ug/kg	0.320	1.07
95-49-8	2-Chlorotoluene	U	1.07	ug/kg	0.320	1.07
98-82-8	Isopropylbenzene	U	1.07	ug/kg	0.320	1.07
108-67-8	1,3,5-Trimethylbenzene	U	1.07	ug/kg	0.320	1.07
106-43-4	4-Chlorotoluene	U	1.07	ug/kg	0.320	1.07
98-06-6	tert-Butylbenzene	U	1.07	ug/kg	0.320	1.07
95-63-6	1,2,4-Trimethylbenzene	U	1.07	ug/kg	0.320	1.07
135-98-8	sec-Butylbenzene	U	1.07	ug/kg	0.320	1.07
99-87-6	4-Isopropyltoluene	J	0.459	ug/kg	0.320	1.07
541-73-1	1,3-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07
106-46-7	1,4-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07
104-51-8	n-Butylbenzene	U	1.07	ug/kg	0.320	1.07
96-12-8	1,2-Dibromo-3-chloropropane	U	1.07	ug/kg	0.320	1.07
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane Trichlorotrifluoroethane	U	5.34	ug/kg	1.71	5.34
630-20-6	1,1,1,2-Tetrachloroethane	U	1.07	ug/kg	0.320	1.07
95-50-1	1,2-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.33	33.7	ug/kg	0	J
	unknown hydrocarbon	17.05	14.4	ug/kg	0	J
	unknown hydrocarbon	18.11	11.3	ug/kg	0	J
	unknown siloxane	19.15	13	ug/kg	0	J
	unknown siloxane	21.24	18.2	ug/kg	0	J

Quality Control Summary

Volatile
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-1620

Matrix Type: SOLID

Sample ID	Client ID	DCED4 %REC	TOL %REC	BFB %REC
1202041686	LCS for batch 952579	99	96	97
1202041687	LCS for batch 952579	97	97	99
1202041683	MB for batch 952579	101	97	99
246434001	RE15-10-8382	104	97	100
246434002	RE15-10-8354	104	98	104
246434003	RE15-10-8356	102	104	112
246434004	RE15-10-8353	104	97	101
246434005	RE15-10-8352	102	99	102
246434006	RE15-10-8355	109	98	103
246434007	RE15-10-8351	107	98	98
246434008	RE15-10-8350	107	99	104
246434009	RE15-10-8357	110	101	107
246434012	RE15-10-8339	110	99	102
246434014	RE15-10-8375	110	101	110
1202044279	LCS for batch 952579	106	100	97
1202044280	LCS for batch 952579	100	96	99
1202044278	MB for batch 952579	105	96	98
246434010	RE15-10-8338	107	97	99
246434013	RE15-10-8337	107	96	101
246434015	RE15-10-8374	110	100	103
246434011	RE15-10-8336	106	98	102
1202041684	RE15-10-8374PS	103	97	98
1202041685	RE15-10-8374PSD	97	97	98

Surrogate**Acceptance Limits**

DCED4 = 1,2-Dichloroethane-d4

(66%-134%)

TOL = Toluene-d8

(71%-128%)

BFB = Bromofluorobenzene

(65%-130%)

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 6

SDG Number: 10-1620

Sample Type: Post Spike

Client ID: RE15-10-8374PS

Matrix: R

Lab Sample ID: 1202041684

%Moisture: 6.3

Instrument: VOA2.1

Analysis Date: 02/15/2010 17:49

Dilution: 1

Analyst: CDS1

Pre Batch ID: 952579

Purge Vol: 5 mL

Batch ID: 952586

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
75-71-8	PS Dichlorodifluoromethane	50.0	0.00 U	46.3	93	39-148
74-87-3	PS Chloromethane	50.0	0.00 U	46.0	92	42-131
75-01-4	PS Vinyl chloride	50.0	0.00 U	48.9	98	50-127
74-83-9	PS Bromomethane	50.0	0.00 U	57.4	115	26-135
75-00-3	PS Chloroethane	50.0	0.00 U	46.9	94	54-128
75-69-4	PS Trichlorofluoromethane	50.0	0.00 U	48.8	98	55-138
67-64-1	PS Acetone	250	45.4	230	74	20-144
75-35-4	PS 1,1-Dichloroethylene	50.0	0.00 U	47.6	95	55-128
74-88-4	PS Iodomethane	250	0.00 U	218	87	47-132
75-09-2	PS Methylene chloride	50.0	0.00 U	43.8	88	56-123
75-15-0	PS Carbon disulfide	250	0.00 U	242	97	53-133
156-60-5	PS trans-1,2-Dichloroethylene	50.0	0.00 U	47.6	95	57-119
75-34-3	PS 1,1-Dichloroethane	50.0	0.00 U	48.1	96	62-125
78-93-3	PS 2-Butanone	250	0.00 U	207	83	30-150
156-59-2	PS cis-1,2-Dichloroethylene	50.0	0.00 U	48.5	97	60-124
594-20-7	PS 2,2-Dichloropropane	50.0	0.00 U	52.7	105	56-129
67-66-3	PS Chloroform	50.0	0.00 U	47.2	94	62-120
74-97-5	PS Bromochloromethane	50.0	0.00 U	45.5	91	51-135
71-55-6	PS 1,1,1-Trichloroethane	50.0	0.00 U	49.9	100	58-129
563-58-6	PS 1,1-Dichloropropene	50.0	0.00 U	49.7	99	59-126
56-23-5	PS Carbon tetrachloride	50.0	0.00 U	51.6	103	55-132
107-06-2	PS 1,2-Dichloroethane	50.0	0.00 U	47.7	95	54-121

Volatile
Quality Control Summary
Spike Recovery Report

Page 2 of 6

SDG Number: 10-1620

Sample Type: Post Spike

Client ID: RE15-10-8374PS

Matrix: R

Lab Sample ID: J202041684

%Moisture: 6.3

Instrument: VOA2.1

Analysis Date: 02/15/2010 17:49

Dilution: 1

Analyst: CDS1

Pren Batch II 952579

Purge Vol: 5 mL

Batch ID: 952586

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
71-43-2	PS Benzene	50.0	0.00 U	46.4	93	58-120
79-01-6	PS Trichloroethylene	50.0	0.00 U	46.9	94	54-130
78-87-5	PS 1,2-Dichloropropane	50.0	0.00 U	47.9	96	59-121
75-27-4	PS Bromodichloromethane	50.0	0.00 U	51.3	103	57-130
74-95-3	PS Dibromomethane	50.0	0.00 U	48.1	96	57-124
108-10-1	PS 4-Methyl-2-pentanone	250	0.00 U	267	107	40-137
10061-01-5	PS cis-1,3-Dichloropropylene	50.0	0.00 U	50.6	101	50-131
108-88-3	PS Toluene	50.0	0.00 U	46.6	93	54-119
10061-02-6	PS trans-1,3-Dichloropropylene	50.0	0.00 U	52.3	105	47-133
79-00-5	PS 1,1,2-Trichloroethane	50.0	0.00 U	46.6	93	60-130
591-78-6	PS 2-Hexanone	250	0.00 U	221	88	30-139
142-28-9	PS 1,3-Dichloropropane	50.0	0.00 U	47.4	95	59-125
127-18-4	PS Tetrachloroethylene	50.0	0.00 U	44.4	89	50-126
124-48-1	PS Dibromochloromethane	50.0	0.00 U	51.1	102	54-131
106-93-4	PS 1,2-Dibromoethane	50.0	0.00 U	47.7	95	55-127
108-90-7	PS Chlorobenzene	50.0	0.00 U	45.1	90	50-130
100-41-4	PS Ethylbenzene	50.0	0.00 U	46.9	94	50-121
179601-23-1	PS m,p-Xylenes	100	0.00 U	91.3	91	47-125
95-47-6	PS o-Xylene	50.0	0.00 U	45.9	92	51-127
100-42-5	PS Styrene	50.0	0.00 U	47.8	96	41-136
75-25-2	PS Bromoform	50.0	0.00 U	51.6	103	48-143
79-34-5	PS 1,1,2,2-Tetrachloroethane	50.0	0.00 U	49.2	98	52-129

Volatile
Quality Control Summary
Spike Recovery Report

SDG Number: 10-1620

Sample Type: Post Spike

Client ID: RE15-10-8374PS

Matrix: R

Lab Sample ID: 1202041684

%Moisture: 6.3

Instrument: VOA2.1

Analysis Date: 02/15/2010 17:49

Dilution: 1

Analyst: CDS1

Prep Batch ID: 952579

Purge Vol: 5 mL

Batch ID: 952586

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
96-18-4	PS 1,2,3-Trichloropropane	50.0	0.00 U	47.6	95	56-139
108-86-1	PS Bromobenzene	50.0	0.00 U	44.6	89	54-125
103-65-1	PS n-Propylbenzene	50.0	0.00 U	46.4	93	46-127
95-49-8	PS 2-Chlorotoluene	50.0	0.00 U	45.2	90	47-130
98-82-8	PS Isopropylbenzene	50.0	0.00 U	49.2	98	42-126
108-67-8	PS 1,3,5-Trimethylbenzene	50.0	0.00 U	46.6	93	44-132
106-43-4	PS 4-Chlorotoluene	50.0	0.00 U	45.0	90	46-127
98-06-6	PS tert-Butylbenzene	50.0	0.00 U	46.7	93	48-136
95-63-6	PS 1,2,4-Trimethylbenzene	50.0	0.00 U	48.6	97	42-132
135-98-8	PS sec-Butylbenzene	50.0	0.00 U	46.6	93	47-130
99-87-6	PS 4-Isopropyltoluene	50.0	0.430 J	44.3	88	36-142
541-73-1	PS 1,3-Dichlorobenzene	50.0	0.00 U	43.1	86	41-130
106-46-7	PS 1,4-Dichlorobenzene	50.0	0.00 U	42.9	86	41-126
104-51-8	PS n-Butylbenzene	50.0	0.00 U	46.8	94	37-136
96-12-8	PS 1,2-Dibromo-3-chloropropane	50.0	0.00 U	45.4	91	42-143
630-20-6	PS 1,1,1,2-Tetrachloroethane	50.0	0.00 U	48.5	97	58-127
95-50-1	PS 1,2-Dichlorobenzene	50.0	0.00 U	43.2	86	42-128

Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-1620

Sample Type: Post Spike Duplicate

Client ID: RE15-10-8374PSD

Matrix: R

Lab Sample ID: 1202041685

%Moisture: 6.3

Instrument: VOA2.1

Analysis Date: 02/15/2010 18:18

Dilution: 1

Analyst: CDS1

Preo Batch II 952579

Purge Vol: 5 mL

Batch ID: 952586

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
75-71-8	PSD Dichlorodifluoromethane	50.0	0.00 U	45.1	90	39-148	3	0-19
74-87-3	PSD Chloromethane	50.0	0.00 U	45.4	91	42-131	1	0-23
75-01-4	PSD Vinyl chloride	50.0	0.00 U	47.6	95	50-127	3	0-23
74-83-9	PSD Bromomethane	50.0	0.00 U	58.8	118	26-135	2	0-22
75-00-3	PSD Chloroethane	50.0	0.00 U	46.1	92	54-128	2	0-25
75-69-4	PSD Trichlorofluoromethane	50.0	0.00 U	47.9	96	55-138	2	0-21
67-64-1	PSD Acetone	250	45.4	171	50	20-144	29 *	0-22
75-35-4	PSD 1,1-Dichloroethylene	50.0	0.00 U	46.6	93	55-128	2	0-20
74-88-4	PSD Iodomethane	250	0.00 U	219	88	47-132	0	0-20
75-09-2	PSD Methylene chloride	50.0	0.00 U	43.0	86	56-123	2	0-20
75-15-0	PSD Carbon disulfide	250	0.00 U	242	97	53-133	0	0-22
156-60-5	PSD trans-1,2-Dichloroethylene	50.0	0.00 U	47.4	95	57-119	0	0-20
75-34-3	PSD 1,1-Dichloroethane	50.0	0.00 U	47.7	95	62-125	1	0-20
78-93-3	PSD 2-Butanone	250	0.00 U	167	67	30-150	22 *	0-21
156-59-2	PSD cis-1,2-Dichloroethylene	50.0	0.00 U	48.1	96	60-124	1	0-20
594-20-7	PSD 2,2-Dichloropropane	50.0	0.00 U	51.9	104	56-129	1	0-20
67-66-3	PSD Chloroform	50.0	0.00 U	46.7	93	62-120	1	0-25
74-97-5	PSD Bromochloromethane	50.0	0.00 U	45.4	91	51-135	0	0-20
71-55-6	PSD 1,1,1-Trichloroethane	50.0	0.00 U	49.5	99	58-129	1	0-20
563-58-6	PSD 1,1-Dichloropropene	50.0	0.00 U	49.4	99	59-126	1	0-20
56-23-5	PSD Carbon tetrachloride	50.0	0.00 U	50.9	102	55-132	1	0-20
107-06-2	PSD 1,2-Dichloroethane	50.0	0.00 U	45.7	91	54-121	4	0-20

Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-1620

Sample Type: Post Spike Duplicate

Client ID: RE15-10-8374PSD

Matrix: R

Lab Sample ID: 1202041685

%Moisture: 6.3

Instrument: VOA2.I

Analysis Date: 02/15/2010 18:18

Dilution: 1

Analyst: CDS1

Pren Batch II 952579

Purge Vol: 5 mL

Batch ID: 952586

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
71-43-2	PSD Benzene	50.0	0.00 U	46.4	93	58-120	0	0-20
79-01-6	PSD Trichloroethylene	50.0	0.00 U	46.6	93	54-130	1	0-23
78-87-5	PSD 1,2-Dichloropropane	50.0	0.00 U	47.6	95	59-121	1	0-20
75-27-4	PSD Bromodichloromethane	50.0	0.00 U	50.0	100	57-130	3	0-20
74-95-3	PSD Dibromomethane	50.0	0.00 U	45.9	92	57-124	5	0-20
108-10-1	PSD 4-Methyl-2-pentanone	250	0.00 U	238	95	40-137	12	0-25
10061-01-5	PSD cis-1,3-Dichloropropylene	50.0	0.00 U	49.3	99	50-131	3	0-20
108-88-3	PSD Toluene	50.0	0.00 U	47.0	94	54-119	1	0-23
10061-02-6	PSD trans-1,3-Dichloropropylene	50.0	0.00 U	50.3	101	47-133	4	0-24
79-00-5	PSD 1,1,2-Trichloroethane	50.0	0.00 U	44.6	89	60-130	4	0-20
591-78-6	PSD 2-Hexanone	250	0.00 U	185	74	30-139	18	0-21
142-28-9	PSD 1,3-Dichloropropane	50.0	0.00 U	45.4	91	59-125	4	0-20
127-18-4	PSD Tetrachloroethylene	50.0	0.00 U	46.0	92	50-126	4	0-20
124-48-1	PSD Dibromochloromethane	50.0	0.00 U	49.0	98	54-131	4	0-23
106-93-4	PSD 1,2-Dibromoethane	50.0	0.00 U	45.4	91	55-127	5	0-23
108-90-7	PSD Chlorobenzene	50.0	0.00 U	45.7	91	50-130	1	0-24
100-41-4	PSD Ethylbenzene	50.0	0.00 U	49.0	98	50-121	4	0-24
179601-23-1	PSD m,p-Xylenes	100	0.00 U	92.6	93	47-125	1	0-25
95-47-6	PSD o-Xylene	50.0	0.00 U	47.1	94	51-127	3	0-24
100-42-5	PSD Styrene	50.0	0.00 U	48.2	96	41-136	1	0-24
75-25-2	PSD Bromoform	50.0	0.00 U	49.9	100	48-143	3	0-20
79-34-5	PSD 1,1,2,2-Tetrachloroethane	50.0	0.00 U	46.7	93	52-129	5	0-20

Volatile

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1620

Sample Type: Post Spike Duplicate

Client ID: RE15-10-8374PSD

Matrix: R

Lab Sample ID: 1202041685

%Moisture: 6.3

Instrument: VOA2.1

Analysis Date: 02/15/2010 18:18

Dilution: 1

Analyst: CDS1

Prep Batch ID: 952579

Purge Vol: 5 mL

Batch ID: 952586

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD	Acceptance Limits
96-18-4	PSD 1,2,3-Trichloropropane	50.0	0.00	U	44.7	89	56-139	6 0-34
108-86-1	PSD Bromobenzene	50.0	0.00	U	44.8	90	54-125	0 0-22
103-65-1	PSD n-Propylbenzene	50.0	0.00	U	47.7	95	46-127	3 0-25
95-49-8	PSD 2-Chlorotoluene	50.0	0.00	U	47.0	94	47-130	4 0-24
98-82-8	PSD Isopropylbenzene	50.0	0.00	U	49.7	99	42-126	1 0-22
108-67-8	PSD 1,3,5-Trimethylbenzene	50.0	0.00	U	47.4	95	44-132	2 0-25
106-43-4	PSD 4-Chlorotoluene	50.0	0.00	U	46.5	93	46-127	3 0-26
98-06-6	PSD tert-Butylbenzene	50.0	0.00	U	47.8	96	48-136	2 0-24
95-63-6	PSD 1,2,4-Trimethylbenzene	50.0	0.00	U	47.6	95	42-132	2 0-26
135-98-8	PSD sec-Butylbenzene	50.0	0.00	U	47.6	95	47-130	2 0-27
99-87-6	PSD 4-Isopropyltoluene	50.0	0.430	J	43.0	85	36-142	3 0-27
541-73-1	PSD 1,3-Dichlorobenzene	50.0	0.00	U	43.8	88	41-130	2 0-25
106-46-7	PSD 1,4-Dichlorobenzene	50.0	0.00	U	43.4	87	41-126	1 0-25
104-51-8	PSD n-Butylbenzene	50.0	0.00	U	47.1	94	37-136	1 0-29
96-12-8	PSD 1,2-Dibromo-3-chloropropane	50.0	0.00	U	40.4	81	42-143	12 0-21
630-20-6	PSD 1,1,1,2-Tetrachloroethane	50.0	0.00	U	49.2	98	58-127	2 0-20
95-50-1	PSD 1,2-Dichlorobenzene	50.0	0.00	U	43.2	86	42-128	0 0-24

Volatile
Quality Control Summary
Spike Recovery Report

SDG Number: 10-1620

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 952579

Matrix: SOIL

Lab Sample ID: 1202041686

Instrument: VOA2.I

Analysis Date: 02/12/2010 19:18

Dilution: 1

Analyst: CDS1

Pren Batch II 952579

Purge Vol: 5 mL

Batch ID: 952586

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
75-71-8	LCS Dichlorodifluoromethane	50.0	0.0	50.4	101	52-151
74-87-3	LCS Chloromethane	50.0	0.0	45.2	90	56-130
75-01-4	LCS Vinyl chloride	50.0	0.0	49.2	98	66-130
74-83-9	LCS Bromomethane	50.0	0.0	70.3	141 *	70-126
75-00-3	LCS Chloroethane	50.0	0.0	46.5	93	67-129
75-69-4	LCS Trichlorofluoromethane	50.0	0.0	49.9	100	73-143
67-64-1	LCS Acetone	250	0.0	254	102	30-140
75-35-4	LCS 1,1-Dichloroethylene	50.0	0.0	47.1	94	71-129
74-88-4	LCS Iodomethane	250	0.0	224	90	72-125
75-09-2	LCS Methylene chloride	50.0	0.0	42.3	85	64-121
75-15-0	LCS Carbon disulfide	250	0.0	249	99	70-133
156-60-5	LCS trans-1,2-Dichloroethylene	50.0	0.0	47.7	95	73-120
75-34-3	LCS 1,1-Dichloroethane	50.0	0.0	47.1	94	73-120
78-93-3	LCS 2-Butanone	250	0.0	250	100	32-145
156-59-2	LCS cis-1,2-Dichloroethylene	50.0	0.0	47.7	95	74-124
594-20-7	LCS 2,2-Dichloropropane	50.0	0.0	52.1	104	73-134
67-66-3	LCS Chloroform	50.0	0.0	46.6	93	74-120
74-97-5	LCS Bromochloromethane	50.0	0.0	44.9	90	73-122
71-55-6	LCS 1,1,1-Trichloroethane	50.0	0.0	50.1	100	74-132
563-58-6	LCS 1,1-Dichloropropene	50.0	0.0	50.9	102	79-128
56-23-5	LCS Carbon tetrachloride	50.0	0.0	51.3	103	75-135
107-06-2	LCS 1,2-Dichloroethane	50.0	0.0	45.9	92	65-120

Volatile
Quality Control Summary
Spike Recovery Report

Page 2 of 3

SDG Number: 10-1620

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 952579

Matrix: SOIL

Lab Sample ID: 1202041686

Instrument: VOA2.I

Analysis Date: 02/12/2010 19:18

Dilution: 1

Analyst: CDS1

Pre Batch II 952579

Purge Vol: 5 mL

Batch ID: 952586

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
71-43-2	LCS Benzene	50.0	0.0	46.6	93	74-120
79-01-6	LCS Trichloroethylene	50.0	0.0	48.2	96	77-124
78-87-5	LCS 1,2-Dichloropropane	50.0	0.0	47.1	94	73-120
75-27-4	LCS Bromodichloromethane	50.0	0.0	49.5	99	75-128
74-95-3	LCS Dibromomethane	50.0	0.0	45.6	91	75-120
108-10-1	LCS 4-Methyl-2-pentanone	250	0.0	259	104	63-133
10061-01-5	LCS cis-1,3-Dichloropropylene	50.0	0.0	50.9	102	78-127
108-88-3	LCS Toluene	50.0	0.0	46.8	94	74-120
10061-02-6	LCS trans-1,3-Dichloropropylene	50.0	0.0	52.1	104	70-125
79-00-5	LCS 1,1,2-Trichloroethane	50.0	0.0	45.6	91	75-120
591-78-6	LCS 2-Hexanone	250	0.0	273	109	40-153
142-28-9	LCS 1,3-Dichloropropane	50.0	0.0	46.2	92	73-120
127-18-4	LCS Tetrachloroethylene	50.0	0.0	48.1	96	72-126
124-48-1	LCS Dibromochloromethane	50.0	0.0	50.5	101	74-126
106-93-4	LCS 1,2-Dibromoethane	50.0	0.0	46.5	93	79-120
108-90-7	LCS Chlorobenzene	50.0	0.0	46.6	93	76-120
100-41-4	LCS Ethylbenzene	50.0	0.0	48.5	97	74-120
179601-23-1	LCS m,p-Xylenes	100	0.0	96.5	96	76-120
95-47-6	LCS o-Xylene	50.0	0.0	48.0	96	76-122
100-42-5	LCS Styrene	50.0	0.0	51.3	103	75-125
75-25-2	LCS Bromoform	50.0	0.0	51.3	103	68-135
79-34-5	LCS 1,1,2,2-Tetrachloroethane	50.0	0.0	46.6	93	72-122

Volatile
Quality Control Summary
Spike Recovery Report

SDG Number: 10-1620

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 952579

Matrix: SOIL

Lab Sample ID: 1202041686

Instrument: VOA2.I

Analysis Date: 02/12/2010 19:18

Dilution: 1

Analyst: CDS1

Pre Batch II 952579

Purge Vol: 5 mL

Batch ID: 952586

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
96-18-4	LCS 1,2,3-Trichloropropane	50.0	0.0	44.5	89	72-129
108-86-1	LCS Bromobenzene	50.0	0.0	46.4	93	74-120
103-65-1	LCS n-Propylbenzene	50.0	0.0	50.2	100	70-120
95-49-8	LCS 2-Chlorotoluene	50.0	0.0	48.4	97	70-120
98-82-8	LCS Isopropylbenzene	50.0	0.0	50.8	102	60-121
108-67-8	LCS 1,3,5-Trimethylbenzene	50.0	0.0	49.9	100	71-121
106-43-4	LCS 4-Chlorotoluene	50.0	0.0	48.8	98	71-120
98-06-6	LCS tert-Butylbenzene	50.0	0.0	49.7	99	75-123
95-63-6	LCS 1,2,4-Trimethylbenzene	50.0	0.0	50.0	100	73-120
135-98-8	LCS sec-Butylbenzene	50.0	0.0	50.9	102	74-123
99-87-6	LCS 4-Isopropyltoluene	50.0	0.0	51.9	104	76-127
541-73-1	LCS 1,3-Dichlorobenzene	50.0	0.0	47.0	94	75-120
106-46-7	LCS 1,4-Dichlorobenzene	50.0	0.0	46.9	94	73-120
104-51-8	LCS n-Butylbenzene	50.0	0.0	53.5	107	73-128
96-12-8	LCS 1,2-Dibromo-3-chloropropane	50.0	0.0	43.4	87	69-136
630-20-6	LCS 1,1,1,2-Tetrachloroethane	50.0	0.0	48.7	97	75-124
95-50-1	LCS 1,2-Dichlorobenzene	50.0	0.0	46.4	93	75-120

Volatile

Page 1 of 1

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1620

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 952579

Matrix: SOIL

Lab Sample ID: 1202041687

Instrument: VOA2.1

Analysis Date: 02/12/2010 19:47

Dilution: 1

Analyst: CDS1

Prep Batch ID: 952579

Purge Vol: 5 mL

Batch ID: 952586

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
76-13-1	LCS 1,1,2-Trichloro-1,2,2-Trifluor Trichlorotrifluoroethane	250	0.0	216	86	67-140

Volatile
Quality Control Summary
Spike Recovery Report

SDG Number: 10-1620

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 952579

Matrix: SOIL

Lab Sample ID: 1202044279

Instrument: VOA2.I

Analysis Date: 02/15/2010 08:07

Dilution: 1

Analyst: CDS1

Pren Batch II 952579

Purge Vol: 5 mL

Batch ID: 952586

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
75-71-8	LCS Dichlorodifluoromethane	50.0	0.0	49.9	100	52-151
74-87-3	LCS Chloromethane	50.0	0.0	47.0	94	56-130
75-01-4	LCS Vinyl chloride	50.0	0.0	50.2	100	66-130
74-83-9	LCS Bromomethane	50.0	0.0	57.8	116	70-126
75-00-3	LCS Chloroethane	50.0	0.0	48.0	96	67-129
75-69-4	LCS Trichlorofluoromethane	50.0	0.0	53.0	106	73-143
67-64-1	LCS Acetone	250	0.0	260	104	30-140
75-35-4	LCS 1,1-Dichloroethylene	50.0	0.0	49.1	98	71-129
74-88-4	LCS Iodomethane	250	0.0	231	92	72-125
75-09-2	LCS Methylene chloride	50.0	0.0	45.0	90	64-121
75-15-0	LCS Carbon disulfide	250	0.0	256	102	70-133
156-60-5	LCS trans-1,2-Dichloroethylene	50.0	0.0	49.6	99	73-120
75-34-3	LCS 1,1-Dichloroethane	50.0	0.0	49.3	99	73-120
78-93-3	LCS 2-Butanone	250	0.0	264	106	32-145
156-59-2	LCS cis-1,2-Dichloroethylene	50.0	0.0	50.9	102	74-124
594-20-7	LCS 2,2-Dichloropropane	50.0	0.0	56.2	112	73-134
67-66-3	LCS Chloroform	50.0	0.0	49.5	99	74-120
74-97-5	LCS Bromochloromethane	50.0	0.0	46.8	94	73-122
71-55-6	LCS 1,1,1-Trichloroethane	50.0	0.0	53.2	106	74-132
563-58-6	LCS 1,1-Dichloropropene	50.0	0.0	53.4	107	79-128
56-23-5	LCS Carbon tetrachloride	50.0	0.0	54.5	109	75-135
107-06-2	LCS 1,2-Dichloroethane	50.0	0.0	48.4	97	65-120

Volatile
Quality Control Summary
Spike Recovery Report

Page 2 of 3

SDG Number: 10-1620

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 952579

Matrix: SOIL

Lab Sample ID: 1202044279

Instrument: VOA2.I

Analysis Date: 02/15/2010 08:07

Dilution: 1

Analyst: CDS1

Pre Batch ID: 952579

Purge Vol: 5 mL

Batch ID: 952586

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
71-43-2	LCS Benzene	50.0	0.0	48.7	97	74-120
79-01-6	LCS Trichloroethylene	50.0	0.0	50.0	100	77-124
78-87-5	LCS 1,2-Dichloropropane	50.0	0.0	49.1	98	73-120
75-27-4	LCS Bromodichloromethane	50.0	0.0	52.1	104	75-128
74-95-3	LCS Dibromomethane	50.0	0.0	48.2	96	75-120
108-10-1	LCS 4-Methyl-2-pentanone	250	0.0	268	107	63-133
10061-01-5	LCS cis-1,3-Dichloropropylene	50.0	0.0	53.7	107	78-127
108-88-3	LCS Toluene	50.0	0.0	49.4	99	74-120
10061-02-6	LCS trans-1,3-Dichloropropylene	50.0	0.0	55.0	110	70-125
79-00-5	LCS 1,1,2-Trichloroethane	50.0	0.0	47.1	94	75-120
591-78-6	LCS 2-Hexanone	250	0.0	291	117	40-153
142-28-9	LCS 1,3-Dichloropropane	50.0	0.0	47.5	95	73-120
127-18-4	LCS Tetrachloroethylene	50.0	0.0	50.1	100	72-126
124-48-1	LCS Dibromochloromethane	50.0	0.0	52.6	105	74-126
106-93-4	LCS 1,2-Dibromoethane	50.0	0.0	48.2	96	79-120
108-90-7	LCS Chlorobenzene	50.0	0.0	48.7	97	76-120
100-41-4	LCS Ethylbenzene	50.0	0.0	50.9	102	74-120
179601-23-1	LCS m,p-Xylenes	100	0.0	100	100	76-120
95-47-6	LCS o-Xylene	50.0	0.0	50.0	100	76-122
100-42-5	LCS Styrene	50.0	0.0	52.1	104	75-125
75-25-2	LCS Bromoform	50.0	0.0	52.2	104	68-135
79-34-5	LCS 1,1,2,2-Tetrachloroethane	50.0	0.0	47.4	95	72-122

Volatile

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1620

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 952579

Matrix: SOIL

Lab Sample ID: 1202044279

Instrument: VOA2.I

Analysis Date: 02/15/2010 08:07

Dilution: 1

Analyst: CDS1

Pren Batch II 952579

Purge Vol: 5 mL

Batch ID: 952586

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
96-18-4	LCS 1,2,3-Trichloropropane	50.0	0.0	45.0	90	72-129
108-86-1	LCS Bromobenzene	50.0	0.0	46.6	93	74-120
103-65-1	LCS n-Propylbenzene	50.0	0.0	51.6	103	70-120
95-49-8	LCS 2-Chlorotoluene	50.0	0.0	49.8	100	70-120
98-82-8	LCS Isopropylbenzene	50.0	0.0	52.0	104	60-121
108-67-8	LCS 1,3,5-Trimethylbenzene	50.0	0.0	51.8	104	71-121
106-43-4	LCS 4-Chlorotoluene	50.0	0.0	50.3	101	71-120
98-06-6	LCS tert-Butylbenzene	50.0	0.0	51.6	103	75-123
95-63-6	LCS 1,2,4-Trimethylbenzene	50.0	0.0	52.1	104	73-120
135-98-8	LCS sec-Butylbenzene	50.0	0.0	52.9	106	74-123
99-87-6	LCS 4-Isopropyltoluene	50.0	0.0	54.5	109	76-127
541-73-1	LCS 1,3-Dichlorobenzene	50.0	0.0	48.2	96	75-120
106-46-7	LCS 1,4-Dichlorobenzene	50.0	0.0	48.0	96	73-120
104-51-8	LCS n-Butylbenzene	50.0	0.0	56.1	112	73-128
96-12-8	LCS 1,2-Dibromo-3-chloropropane	50.0	0.0	43.4	87	69-136
630-20-6	LCS 1,1,1,2-Tetrachloroethane	50.0	0.0	51.1	102	75-124
95-50-1	LCS 1,2-Dichlorobenzene	50.0	0.0	47.9	96	75-120

Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 1

SDG Number: 10-1620

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 952579

Matrix: SOIL

Lab Sample ID:1202044280

Instrument: VOA2.I

Analysis Date: 02/15/2010 08:36

Dilution: 1

Analyst: CDS1

Pren Batch II 952579

Purge Vol: 5 mL

Batch ID: 952586

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
76-13-1	LCS 1,1,2-Trichloro-1,2,2-Trifluor Trichlorotrifluoroethane	250	0.0	265	106	67-140

Method Blank Summary

Page 1 of 1

SDG Number:	10-1620	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 952579	Instrument ID:	VOA2.I	Data File:	021210V2.b\2Y529.D
Lab Sample ID:	1202041683	Prep Date:	02/12/2010 14:00	Analyzed:	02/12/10 20:16
Column:	DB-624				

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01 LCS for batch 952579	1202041686	021210V2.b\2Y527.D	02/12/10	1918
02 LCS for batch 952579	1202041687	021210V2.b\2Y528SLS.D	02/12/10	1947
03 RE15-10-8382	246434001	021210V2.b\2Y532.D	02/12/10	2143
04 RE15-10-8354	246434002	021210V2.b\2Y533.D	02/12/10	2212
05 RE15-10-8356	246434003	021210V2.b\2Y534.D	02/12/10	2241
06 RE15-10-8353	246434004	021210V2.b\2Y535.D	02/12/10	2310
07 RE15-10-8352	246434005	021210V2.b\2Y536.D	02/12/10	2339
08 RE15-10-8355	246434006	021210V2.b\2Y537.D	02/13/10	0008
09 RE15-10-8351	246434007	021210V2.b\2Y538.D	02/13/10	0037
10 RE15-10-8350	246434008	021210V2.b\2Y539.D	02/13/10	0106
11 RE15-10-8357	246434009	021210V2.b\2Y540.D	02/13/10	0135
12 RE15-10-8339	246434012	021210V2.b\2Y543.D	02/13/10	0302
13 RE15-10-8375	246434014	021210V2.b\2Y545.D	02/13/10	0400

Method Blank Summary

Page 1 of 1

SDG Number:	10-1620	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 952579	Instrument ID:	VOA2.I	Data File:	021510V2.b\2Z107B2.D
Lab Sample ID:	1202044278	Prep Date:	02/15/2010 06:00	Analyzed:	02/15/10 09:34
Column:	DB-624				

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01 LCS for batch 952579	1202044279	021510V2.b\2Z104L.S2.D	02/15/10	0807
02 LCS for batch 952579	1202044280	021510V2.b\2Z105SLD2.D	02/15/10	0836
03 RE15-10-8338	246434010	021510V2.b\2Z110.D	02/15/10	1100
04 RE15-10-8337	246434013	021510V2.b\2Z112.D	02/15/10	1159
05 RE15-10-8374	246434015	021510V2.b\2Z113.D	02/15/10	1227
06 RE15-10-8336	246434011	021510V2.b\2Z115.D	02/15/10	1326
07 RE15-10-8374PS	1202041684	021510V2.b\2Z124.D	02/15/10	1749
08 RE15-10-8374PSD	1202041685	021510V2.b\2Z125.D	02/15/10	1818

Instrument Performance Check

BFB

Lab Name GEL Laboratories LLC

Client SDG: 10-1620

Instrument ID: VOA2.I

Injection Date/Time: 08-FEB-10 16:55

Column Description: DB-624

Lab File ID 020810V2.b\2Y117.D

m/e	Ion Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	23.2
75	30.0 - 60.0% of mass 95	46.1
95	Base Peak, 100% Relative Abundance	100
96	5.0 - 9.0% of mass 95	5.9
173	Less than 2.0% of mass 174	0.6
174	50.0 - 100.0% of mass 95	57.4
175	5.0 - 9.0% of mass 174	7.1
176	95.0 - 101.0% of mass 174	97
177	5.0 - 9.0% of mass 176	7.4

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, LCS, LCSD, BLANKS AND STANDARDS

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
ICALMIX[A]	W2VM100208-10	020810V2.b\2Y119.D	08-FEB-10 17:51
ICALMIX[A]	W2VM100208-11	020810V2.b\2Y120.D	08-FEB-10 18:20
ICALMIX[A]	W2VM100208-12	020810V2.b\2Y121.D	08-FEB-10 18:49
ICALMIX[A]	W2VM100208-13	020810V2.b\2Y122.D	08-FEB-10 19:18
ICALMIX[A]	W2VM100208-14	020810V2.b\2Y123.D	08-FEB-10 19:47
ICALMIX[A]	W2VM100208-15	020810V2.b\2Y124.D	08-FEB-10 20:16
ICALMIX[A]	W2VM100208-16	020810V2.b\2Y125.D	08-FEB-10 20:45
ICALMIX[A]	W2VM100208-17	020810V2.b\2Y127.D	08-FEB-10 21:43
ICALMIX[B]	W2VM100208-20	020810V2.b\2Y131.D	08-FEB-10 23:39
ICALMIX[B]	W2VM100208-21	020810V2.b\2Y132.D	09-FEB-10 00:08
ICALMIX[B]	W2VM100208-22	020810V2.b\2Y133.D	09-FEB-10 00:36
ICALMIX[B]	W2VM100208-23	020810V2.b\2Y134.D	09-FEB-10 01:05
ICALMIX[B]	W2VM100208-24	020810V2.b\2Y135.D	09-FEB-10 01:35
ICALMIX[B]	W2VM100208-25	020810V2.b\2Y136.D	09-FEB-10 02:03
ICALMIX[B]	W2VM100208-26	020810V2.b\2Y137.D	09-FEB-10 02:32
ICVMIX[B]01	W2VM100208-27	020810V2.b\2Y139.D	09-FEB-10 03:31

Instrument Performance Check

BFB

Lab Name GEL Laboratories LLC

Client SDG: 10-1620

Instrument ID: VOA2.1

Injection Date/Time: 09-FEB-10 06:39

Column Description: DB-624

Lab File ID 020910V2.b\2Y201.D

m/e	Ion Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	19.7
75	30.0 - 60.0% of mass 95	45.7
95	Base Peak, 100% Relative Abundance	100
96	5.0 - 9.0% of mass 95	5.4
173	Less than 2.0% of mass 174	0.4
174	50.0 - 100.0% of mass 95	62.5
175	5.0 - 9.0% of mass 174	7.1
176	95.0 - 101.0% of mass 174	100.2
177	5.0 - 9.0% of mass 176	6.2

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, LCS, LCSD, BLANKS AND STANDARDS

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
ICVMIX[A]02	W2VMI00209-02	020910V2.b\2Y203ICV.D	09-FEB-10 07:37

Instrument Performance Check

BFB

Lab Name GEL Laboratories LLC

Client SDG: 10-1620

Instrument ID: VOA2.I

Injection Date/Time: 12-FEB-10 18:23

Column Description: DB-624

Lab File ID 021210V2.b\2Y525.D

m/e	Ion Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	23.7
75	30.0 - 60.0% of mass 95	48
95	Base Peak, 100% Relative Abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.7
174	50.0 - 100.0% of mass 95	61.4
175	5.0 - 9.0% of mass 174	6.9
176	95.0 - 101.0% of mass 174	98.1
177	5.0 - 9.0% of mass 176	6.3

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, LCS, LCSD, BLANKS AND STANDARDS

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
CCVMIX[A]01	W2VM100212-05	021210V2.b\2Y526.D	12-FEB-10 18:49
BLK01LCS	1202041686	021210V2.b\2Y527.D	12-FEB-10 19:18
CCVMIX[B]02	W2VM100212-07	021210V2.b\2Y528.D	12-FEB-10 19:47
BLK01SLCS	1202041687	021210V2.b\2Y528SLS.D	12-FEB-10 19:47
BLK01	1202041683	021210V2.b\2Y529.D	12-FEB-10 20:16
RE15-10-8382	246434001	021210V2.b\2Y532.D	12-FEB-10 21:43
RE15-10-8354	246434002	021210V2.b\2Y533.D	12-FEB-10 22:12
RE15-10-8356	246434003	021210V2.b\2Y534.D	12-FEB-10 22:41
RE15-10-8353	246434004	021210V2.b\2Y535.D	12-FEB-10 23:10
RE15-10-8352	246434005	021210V2.b\2Y536.D	12-FEB-10 23:39
RE15-10-8355	246434006	021210V2.b\2Y537.D	13-FEB-10 00:08
RE15-10-8351	246434007	021210V2.b\2Y538.D	13-FEB-10 00:37
RE15-10-8350	246434008	021210V2.b\2Y539.D	13-FEB-10 01:06
RE15-10-8357	246434009	021210V2.b\2Y540.D	13-FEB-10 01:35
RE15-10-8339	246434012	021210V2.b\2Y543.D	13-FEB-10 03:02
RE15-10-8375	246434014	021210V2.b\2Y545.D	13-FEB-10 04:00

Instrument Performance Check

BFB

Lab Name GEL Laboratories LLC

Client SDG: 10-1620

Instrument ID: VOA2.I

Injection Date/Time: 15-FEB-10 06:42

Column Description: DB-624

Lab File ID 021510V2.b\2Z101.D

m/e	Ion Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	26.6
75	30.0 - 60.0% of mass 95	49.8
95	Base Peak, 100% Relative Abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.6
174	50.0 - 100.0% of mass 95	62.9
175	5.0 - 9.0% of mass 174	6.5
176	95.0 - 101.0% of mass 174	95
177	5.0 - 9.0% of mass 176	6.4

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, LCS, LCSD, BLANKS AND STANDARDS

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
CCVMIX[A]03	W2VM100215-01	021510V2.b\2Z102.D	15-FEB-10 07:09
BLK02LCS	1202044279	021510V2.b\2Z104LS2.D	15-FEB-10 08:07
CCVMIX[B]04	W2VM100215-04	021510V2.b\2Z105.D	15-FEB-10 08:36
BLK02SLCS	1202044280	021510V2.b\2Z105SLD2.D	15-FEB-10 08:36
BLK02	1202044278	021510V2.b\2Z107B2.D	15-FEB-10 09:34
RE15-10-8338	246434010	021510V2.b\2Z110.D	15-FEB-10 11:00
RE15-10-8337	246434013	021510V2.b\2Z112.D	15-FEB-10 11:59
RE15-10-8374	246434015	021510V2.b\2Z113.D	15-FEB-10 12:27
RE15-10-8336	246434011	021510V2.b\2Z115.D	15-FEB-10 13:26
RE15-10-8374MS	1202041684	021510V2.b\2Z124.D	15-FEB-10 17:49
RE15-10-8374MSD	1202041685	021510V2.b\2Z125.D	15-FEB-10 18:18

Internal Standard Area and RT Summary

Lab Name : GEL Laboratories LLC

Client SDG: 10-1620

Instrument: VOA2.1

STD Analysis Time: 12-FEB-10 18:49

GC Column: DB-624

Data File: C:\msdchem\1\DATA\021210V2.b\2Y526.D

	Fluorobenzene			Chlorobenzene-d5			1,4-Dichlorobenzene-d4					
	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12 Hour STD	1359773		12.4		1055246		16.0		612372		18.5	
Upper Limit	2719546		12.9		2110492		16.5		1224744		19.0	
Lower Limit	679887		11.9		527623		15.5		306186		18.0	

Sample ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
BLK01LCS	1419041		12.4		1101862		16.0		653669		18.5	
BLK01SLCS	1491271		12.4		1123786		16.0		651820		18.5	
BLK01	1369058		12.4		1040666		16.0		593830		18.5	
RE15-10-8382	1228148		12.4		914746		16.0		521449		18.5	
RE15-10-8354	1145361		12.4		855599		16.0		457702		18.5	
RE15-10-8356	1082604		12.4		743887		16.0		359734		18.5	
RE15-10-8353	1158190		12.4		873829		16.0		509364		18.5	
RE15-10-8352	1167055		12.4		869419		16.0		483820		18.5	
RE15-10-8355	1108645		12.4		839723		16.0		480191		18.5	
RE15-10-8351	1107567		12.4		832300		16.0		491256		18.5	
RE15-10-8350	1082787		12.4		806236		16.0		444060		18.5	
RE15-10-8357	1095860		12.4		802600		16.0		450014		18.5	
RE15-10-8339	1067441		12.4		790266		16.0		463593		18.5	
RE15-10-8375	1271398		12.4		932515		16.0		479806		18.5	

Area Upper Limit = +100% of internal standard area

Area Lower Limit = - 50% of internal standard area

RT Upper Limit = + 0.50 minutes of internal standard RT

RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

* Value outside of QC Limits

Internal Standard Area and RT Summary

Lab Name : GEL Laboratories LLC

Client SDG: 10-1620

Instrument: VOA2.1

STD Analysis Time: 15-FEB-10 07:09

GC Column: DB-624

Data File: C:\msdchem\1\DATA\021510V2.b\22102.D

	Fluorobenzene			Chlorobenzene-d5			1,4-Dichlorobenzene-d4		
	Area	#	RT	Area	#	RT	Area	#	RT
12 Hour STD	1182683		12.4	919052		16.0	554410		18.5
Upper Limit	2365366		12.9	1838104		16.5	1108820		19.0
Lower Limit	591342		11.9	459526		15.5	277205		18.0

Sample ID	Area	#	RT	Area	#	RT	Area	#	RT
BLK02LCS	1342748		12.4	1044623		16.0	624496		18.5
BLK02SLCS	1445974		12.4	1102765		16.0	636284		18.5
BLK02	1280541		12.4	975353		16.0	571220		18.5
RF15-10-8338	1142031		12.4	866800		16.0	506564		18.5
RE15-10-8337	1146707		12.4	872909		16.0	497976		18.5
RE15-10-8374	1096850		12.4	825095		16.0	493442		18.5
RE15-10-8336	1112002		12.4	834961		16.0	466465		18.5
RF15-10-8374MS	1322340		12.4	1042771		16.0	613560		18.5
RE15-10-8374MSD	1413047		12.4	1103639		16.0	637897		18.5

Area Upper Limit = +100% of internal standard area

Area Lower Limit = - 50% of internal standard area

RT Upper Limit = + 0.50 minutes of internal standard RT

RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

* Value outside of QC Limits

Sample Data

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434001
 Client ID: RE15-10-8382
 Batch ID: 952586
 Run Date: 02/12/2010 21:43
 Prep Date: 02/12/2010 11:04
 Data File: 021210V2.b2Y532.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.1
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: S
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.00	ug/kg	0.340	1.00
74-87-3	Chloromethane	U	1.00	ug/kg	0.300	1.00
75-01-4	Vinyl chloride	U	1.00	ug/kg	0.300	1.00
74-83-9	Bromomethane	U	1.00	ug/kg	0.300	1.00
75-00-3	Chloroethane	U	1.00	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/kg	0.300	1.00
67-64-1	Acetone	J	2.68	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
74-88-4	Iodomethane	U	5.00	ug/kg	1.60	5.00
75-09-2	Methylene chloride	U	5.00	ug/kg	2.00	5.00
75-15-0	Carbon disulfide	U	5.00	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/kg	0.300	1.00
78-93-3	2-Butanone	U	5.00	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
67-66-3	Chloroform	U	1.00	ug/kg	0.300	1.00
74-97-5	Bromochloromethane	U	1.00	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene	U	1.00	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/kg	0.300	1.00
71-43-2	Benzene	U	1.00	ug/kg	0.300	1.00
79-01-6	Trichloroethylen	U	1.00	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/kg	0.300	1.00
74-95-3	Dibromomethane	U	1.00	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
108-88-3	Toluene	U	1.00	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/kg	0.300	1.00
591-78-6	2-Hexanone	U	5.00	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane	U	1.00	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene	U	1.00	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane	U	1.00	ug/kg	0.300	1.00
108-90-7	Chlorobenzene	U	1.00	ug/kg	0.300	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434001
 Client ID: RE15-10-8382
 Batch ID: 952586
 Run Date: 02/12/2010 21:43
 Prep Date: 02/12/2010 11:04
 Data File: 021210V2.b\2Y532.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: S
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.00	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes	U	2.00	ug/kg	0.300	2.00
95-47-6	o-Xylene	U	1.00	ug/kg	0.300	1.00
100-42-5	Styrene	U	1.00	ug/kg	0.300	1.00
75-25-2	Bromoform	U	1.00	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane	U	1.00	ug/kg	0.300	1.00
108-86-1	Bromobenzene	U	1.00	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene	U	1.00	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene	U	1.00	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene	U	1.00	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene	U	1.00	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene	U	1.00	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene	U	1.00	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/kg	0.300	1.00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.00	ug/kg	1.60	5.00
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.32	20.7	ug/kg	0	J

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y532.D
Acq On : 12 Feb 2010 9:43 pm
Operator : CDS1
InstName : VOA2
Sample : |246434001|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Feb 15 07:40:06 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev(Min)
1) Fluorobenzene	12.437	12.437	1.000	96	1228445	50.00	ug/L	0.00
41) Chlorobenzene-d5	15.982	15.970	1.000	117	914573	50.00	ug/L	0.01
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	521249	50.00	ug/L	0.00
82) B Fluorobenzene	12.437	12.437	1.000	96	1228148	50.00	ug/L	0.00
103) B Chlorobenzene-d5	15.982	15.971	1.000	117	914746	50.00	ug/L	0.01
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	521449	50.00	ug/L	0.00
System Monitoring Compounds								Dev(Min)
29) 1,2-Dichloroethane-d4	11.986	11.986	0.964	65	602924	52.24	ug/L	0.00
Spiked Amount 50.000	Range 66	- 134	Recovery	=	104.48%			
43) Toluene-d8	14.346	14.346	0.898	98	1190614	48.69	ug/L	0.00
Spiked Amount 50.000	Range 71	- 128	Recovery	=	97.38%			
61) Bromofluorobenzene	17.228	17.227	0.933	95	561756	50.22	ug/L	0.00
Spiked Amount 50.000	Range 65	- 130	Recovery	=	100.44%			
Target Compounds								QValue
2) Dichlorodifluoromethane	4.687	4.702	0.377	85	147	N.D.		
3) Chloromethane	4.999	4.999	0.402	50	424	N.D.		
4) Vinyl chloride	5.252	5.266	0.422	62	996	N.D.		
5) Bromomethane	0.000	5.980	0.000		0	N.D.		
6) Chloroethane	0.000	6.223	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000	6.839	0.000		0	N.D.		
8) Ethyl ether	0.000	7.409	0.000		0	N.D.		
9) Acetone	7.966	7.930	0.641	43	13247	2.68	ug/L	92
10) 1,1-Dichloroethylene	0.000	7.883	0.000		0	N.D.		
11) Iodomethane	0.000	8.167	0.000		0	N.D.		
12) Acetonitrile	8.500	8.452	0.683	41	119	N.D.		
13) Methyl acetate	0.000	8.571	0.000		0	N.D.		
14) Carbon disulfide	8.310	8.322	0.668	76	992	N.D.		
15) Methylene chloride	8.772	8.772	0.705	84	7331	N.D.		
16) tert-Butyl methyl ether	9.282	9.282	0.746	73	555	N.D.		
17) trans-1,2-Dichloroethy...	0.000	9.270	0.000		0	N.D.		
18) Vinyl acetate	0.000	10.017	0.000		0	N.D.		
19) 1,1-Dichloroethane	0.000	9.958	0.000		0	N.D.		
20) 2-Butanone	10.860	10.836	0.873	43	1022	N.D.		
21) cis-1,2-Dichloroethylene	0.000	10.848	0.000		0	N.D.		
22) 2,2-Dichloropropane	0.000	10.871	0.000		0	N.D.		
23) Bromochloromethane	0.000	11.203	0.000		0	N.D.		
24) Chloroform	11.298	11.298	0.908	83	132	N.D.		
25) 1,1,1-Trichloroethane	0.000	11.606	0.000		0	N.D.		
26) Cyclohexane	0.000	11.713	0.000		0	N.D.		
27) 1,1-Dichloropropene	0.000	11.820	0.000		0	N.D.		
28) Carbon tetrachloride	0.000	11.844	0.000		0	N.D.		
30) 1,2-Dichloroethane	12.081	12.093	0.971	62	112	N.D.		
31) Benzene	12.105	12.093	0.973	78	292	N.D.		
32) Cyclohexene	0.000	12.247	0.000		0	N.D.		
33) n-Butyl alcohol	0.000	12.697	0.000		0	N.D.		
34) Trichloroethylene	0.000	12.899	0.000		0	N.D.		
35) 1,2-Dichloropropane	0.000	13.172	0.000		0	N.D.		
36) Methylcyclohexane	0.000	13.184	0.000		0	N.D.		
37) Dibromomethane	0.000	13.314	0.000		0	N.D.		

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y532.D
Acq On : 12 Feb 2010 9:43 pm
Operator : CDS1
InstName : VOA2
Sample : |246434001|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Feb 15 07:40:06 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
38) Bromodichloromethane	0.000	13.480	0.000		0	N.D.	
39) 2-Chloroethylvinyl ether	0.000	13.800	0.000		0	N.D.	
40) cis-1,3-Dichloropropylene	0.000	14.002	0.000		0	N.D.	
42) 4-Methyl-2-pentanone	0.000	14.144	0.000		0	N.D.	
44) Toluene	14.429	14.429	0.903	91	1309	N.D.	
45) trans-1,3-Dichloroprop...	0.000	14.618	0.000		0	N.D.	
46) 1,1,2-Trichloroethane	0.000	14.844	0.000		0	N.D.	
47) 2-Hexanone	15.081	15.069	0.944	43	591	N.D.	
48) 1,3-Dichloropropane	0.000	15.045	0.000		0	N.D.	
49) Tetrachloroethylene	0.000	15.069	0.000		0	N.D.	
50) Dibromochloromethane	0.000	15.318	0.000		0	N.D.	
51) 1,2-Dibromoethane	0.000	15.472	0.000		0	N.D.	
52) Chlorobenzene	16.006	16.006	1.001	112	396	N.D.	
53) 1,1,1,2-Tetrachloroethane	0.000	16.077	0.000		0	N.D.	
54) Ethylbenzene	16.220	16.101	1.015	91	1027	N.D.	
55) m,p-Xylenes	16.220	16.219	1.015	106	290	N.D.	
56) o-Xylene	0.000	16.658	0.000		0	N.D.	
57) Styrene	16.658	16.658	1.042	104	373	N.D.	
59) Bromoform	0.000	16.895	0.000		0	N.D.	
60) Isopropylbenzene	0.000	17.038	0.000		0	N.D.	
62) 1,1,2,2-Tetrachloroethane	0.000	17.310	0.000		0	N.D.	
63) 1,2,3-Trichloropropane	0.000	17.393	0.000		0	N.D.	
64) Bromobenzene	17.429	17.429	0.944	156	180	N.D.	
65) n-Propylbenzene	17.477	17.476	0.947	91	407	N.D.	
66) 1,3,5-Trimethylbenzene	17.643	17.642	0.956	105	128	N.D.	
67) 2-Chlorotoluene	0.000	17.607	0.000		0	N.D.	
68) 4-Chlorotoluene	17.714	17.714	0.960	91	558	N.D.	
69) tert-Butylbenzene	0.000	18.010	0.000		0	N.D.	
70) 1,2,4-Trimethylbenzene	18.058	18.057	0.978	105	152	N.D.	
71) sec-Butylbenzene	0.000	18.235	0.000		0	N.D.	
72) 4-Isopropyltoluene	18.461	18.366	1.000	119	110	N.D.	
73) 1,3-Dichlorobenzene	18.413	18.401	0.997	146	413	N.D.	
74) 1,4-Dichlorobenzene	18.496	18.496	1.002	146	1158	N.D.	
75) n-Butylbenzene	18.805	18.805	1.019	91	193	N.D.	
76) 1,2-Dichlorobenzene	18.900	18.899	1.024	146	413	N.D.	
77) 1,2-Dibromo-3-chloropr...	0.000	19.718	0.000		0	N.D.	
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	629	N.D.	
79) Hexachlorobutadiene	0.000	20.868	0.000		0	N.D.	
80) Naphthalene	21.022	21.022	1.139	128	1566	N.D.	
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156	180	541	N.D.	
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.	
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.	
85) Acrolein	0.000	7.646	0.000		0	N.D.	
86) Trichlorotrifluoroethane	0.000	7.930	0.000		0	N.D.	
87) Isopropyl Alcohol	0.000	8.191	0.000		0	N.D.	
88) Allyl chloride	8.500	8.559	0.683	41	119	N.D.	
89) tert-Butyl Alcohol	0.000	8.938	0.000		0	N.D.	
90) Acrylonitrile	0.000	9.164	0.000		0	N.D.	
91) Isopropyl ether	0.000	10.077	0.000		0	N.D.	
92) 2-Chloro-1,3-butadiene	0.000	10.124	0.000		0	N.D.	
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.	
94) Ethyl acetate	10.860	10.919	0.873	43	1022	N.D.	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y532.D
Acq On : 12 Feb 2010 9:43 pm
Operator : CDS1
InstName : VOA2
Sample : |246434001|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Feb 15 07:40:06 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

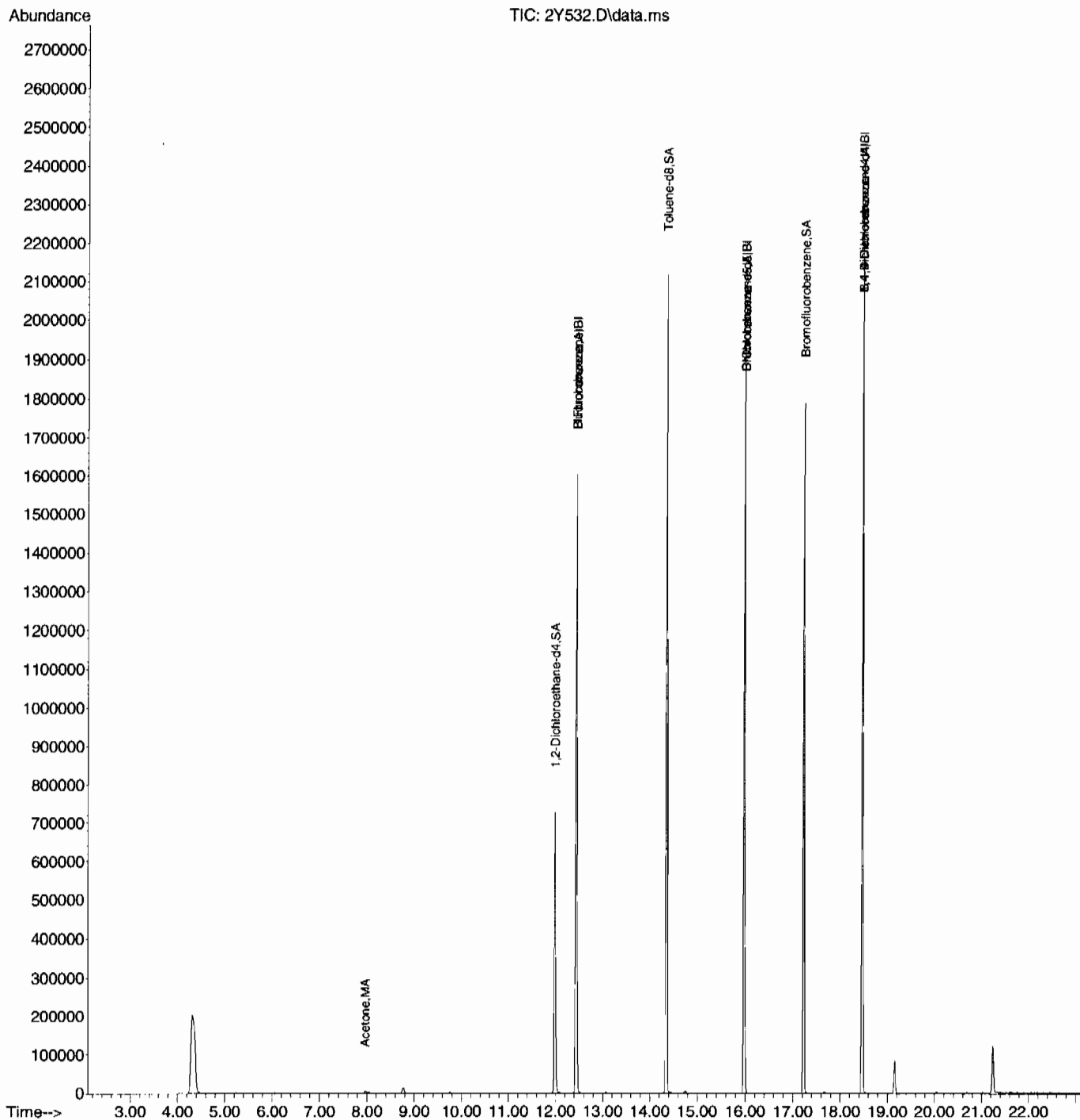
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	0.000	10.907	0.000		0	N.D.	
96) Methacrylonitrile	0.000	11.144	0.000		0	N.D.	
97) Tetrahydrofuran	11.298	11.275	0.908	42	484	N.D.	
98) Isobutyl alcohol	0.000	11.856	0.000		0	N.D.	
99) Methyl tert-amyl ether	0.000	12.211	0.000		0	N.D.	
100) Methyl methacrylate	0.000	13.243	0.000		0	N.D.	
101) 1,4-Dioxane	0.000	13.314	0.000		0	N.D.	
102) 2-Nitropropane	0.000	13.729	0.000		0	N.D.	
104) Ethyl methacrylate	0.000	14.678	0.000		0	N.D.	
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	0.000	17.073	0.000		0	N.D.	
108) Cyclohexanone	0.000	17.156	0.000		0	N.D.	
109) trans-1,4-Dichloro-2-b...	17.370	17.370	0.941	53	132	N.D.	
110) Pentachloroethane	0.000	18.058	0.000		0	N.D.	
111) Benzyl chloride	18.603	18.603	1.008	91	481	N.D.	
112) bis(2-Chloroisopropyl)...	19.149	19.018	1.037	45	4241	N.D.	

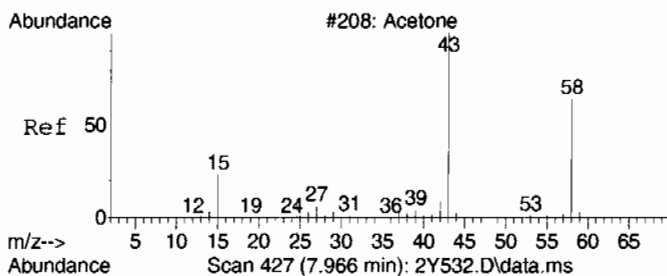
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y532.D
Acq On : 12 Feb 2010 9:43 pm
Operator : CDS1
InstName : VOA2
Sample : |246434001|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 32 Sample Multiplier: 1

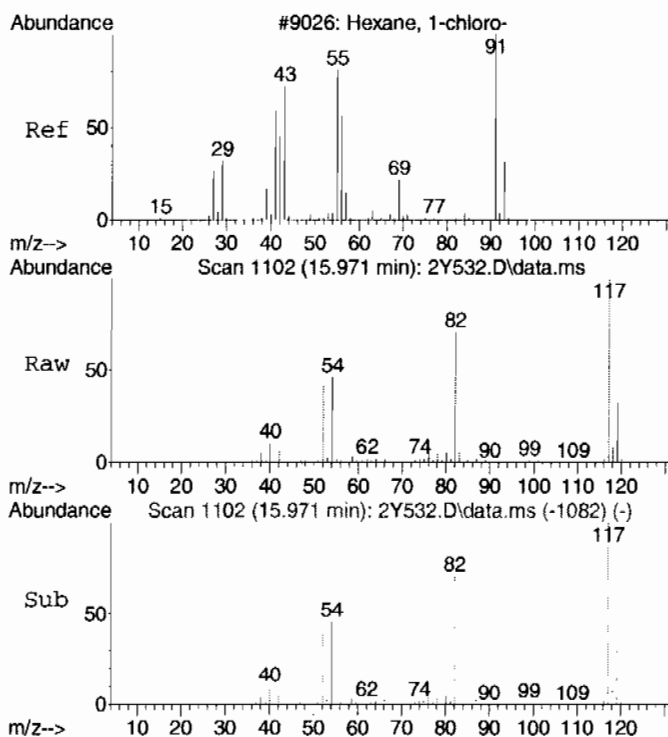
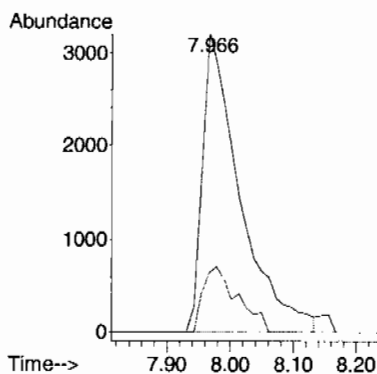
Quant Time: Feb 15 07:40:06 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE





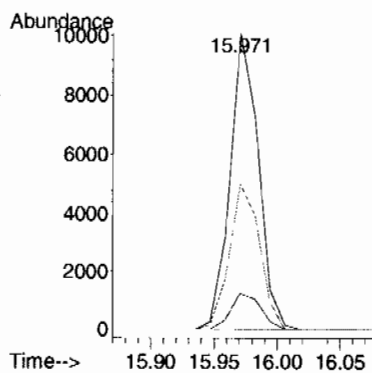
#9
Acetone
Concen: 2.68 ug/L
RT: 7.966 min Scan# 427
Delta R.T. 0.036 min
Lab File: 2Y532.D
Acq: 12 Feb 2010 9:43 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
58	20.4	0.0	54.1



#106 BEFORE analyst DELETION
1-Chlorohexane
Concen: 2.17 ug/L
RT: 15.971 min Scan# 1102
Delta R.T. 0.060 min
Lab File: 2Y532.D
Acq: 12 Feb 2010 9:43 pm

Tgt Ion	Ratio	Lower	Upper
55	100		
91	13.2	66.2	126.2#
56	53.0	26.7	86.7



Library Search Compound Report
GEL Laboratories, LLC

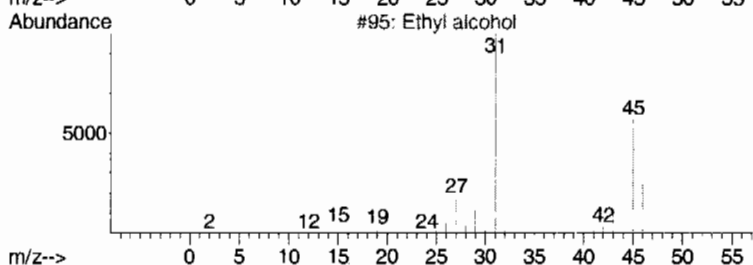
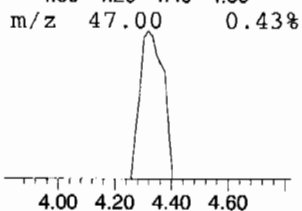
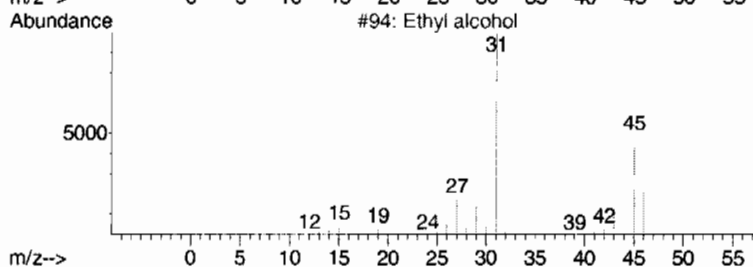
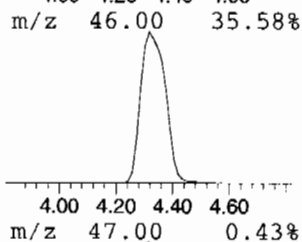
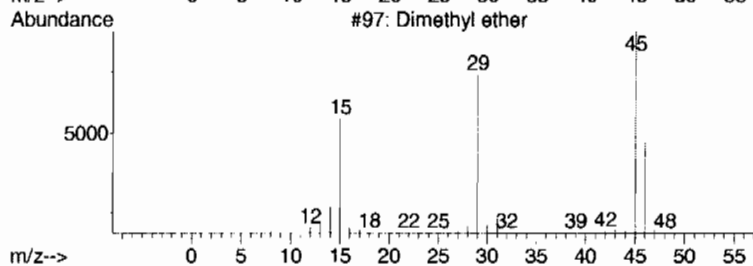
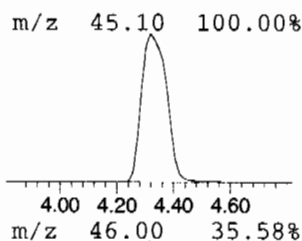
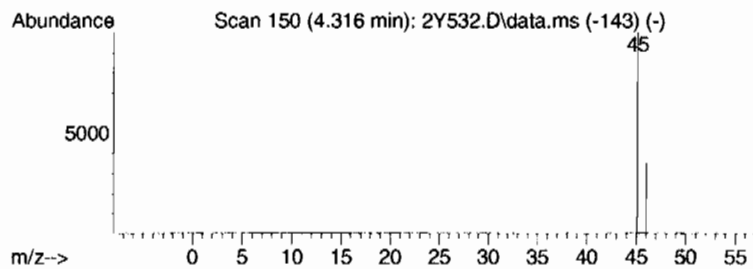
Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y532.D
Acq On : 12 Feb 2010 9:43 pm
Operator : CDS1
Sample : |246434001|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 32 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.		
4.316	20.70 ug/L	1252040	Fluorobenzene	12.437		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Dimethyl ether	46	C2H6O	000115-10-6	5
2		Ethyl alcohol	46	C2H6O	000064-17-5	4
3		Ethyl alcohol	46	C2H6O	000064-17-5	4
4		Ethyl alcohol	46	C2H6O	000064-17-5	4
5		Formic acid	46	CH2O2	000064-18-6	3



Tentatively Identified Compound (LSC) summary
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y532.D
Acq On : 12 Feb 2010 9:43 pm
Operator : CDS1
Sample : |246434001|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 32 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown	4.316	20.7	ug/L	1252040	1	12.437	3024650	50.0

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434002
 Client ID: RE15-10-8354
 Batch ID: 952586
 Run Date: 02/12/2010 22:12
 Prep Date: 02/12/2010 11:05
 Data File: 021210V2.b2Y533.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 22
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.28	ug/kg	0.436	1.28
74-87-3	Chloromethane	U	1.28	ug/kg	0.385	1.28
75-01-4	Vinyl chloride	U	1.28	ug/kg	0.385	1.28
74-83-9	Bromomethane	U	1.28	ug/kg	0.385	1.28
75-00-3	Chloroethane	U	1.28	ug/kg	0.385	1.28
75-69-4	Trichlorofluoromethane	U	1.28	ug/kg	0.385	1.28
67-64-1	Acetone	U	6.41	ug/kg	2.13	6.41
75-35-4	1,1-Dichloroethylene	U	1.28	ug/kg	0.385	1.28
74-88-4	Iodomethane	U	6.41	ug/kg	2.05	6.41
75-09-2	Methylene chloride	U	6.41	ug/kg	2.56	6.41
75-15-0	Carbon disulfide	U	6.41	ug/kg	1.60	6.41
156-60-5	trans-1,2-Dichloroethylene	U	1.28	ug/kg	0.385	1.28
75-34-3	1,1-Dichloroethane	U	1.28	ug/kg	0.385	1.28
78-93-3	2-Butanone	U	6.41	ug/kg	1.92	6.41
156-59-2	cis-1,2-Dichloroethylene	U	1.28	ug/kg	0.385	1.28
594-20-7	2,2-Dichloropropane	U	1.28	ug/kg	0.385	1.28
67-66-3	Chloroform	U	1.28	ug/kg	0.385	1.28
74-97-5	Bromochloromethane	U	1.28	ug/kg	0.423	1.28
71-55-6	1,1,1-Trichloroethane	U	1.28	ug/kg	0.385	1.28
563-58-6	1,1-Dichloropropene	U	1.28	ug/kg	0.385	1.28
56-23-5	Carbon tetrachloride	U	1.28	ug/kg	0.385	1.28
107-06-2	1,2-Dichloroethane	U	1.28	ug/kg	0.385	1.28
71-43-2	Benzene	U	1.28	ug/kg	0.385	1.28
79-01-6	Trichloroethylene	U	1.28	ug/kg	0.423	1.28
78-87-5	1,2-Dichloropropane	U	1.28	ug/kg	0.385	1.28
75-27-4	Bromodichloromethane	U	1.28	ug/kg	0.385	1.28
74-95-3	Dibromomethane	U	1.28	ug/kg	0.385	1.28
108-10-1	4-Methyl-2-pentanone	U	6.41	ug/kg	1.60	6.41
10061-01-5	cis-1,3-Dichloropropylene	U	1.28	ug/kg	0.385	1.28
108-88-3	Toluene	U	1.28	ug/kg	0.385	1.28
10061-02-6	trans-1,3-Dichloropropylene	U	1.28	ug/kg	0.385	1.28
79-00-5	1,1,2-Trichloroethane	U	1.28	ug/kg	0.385	1.28
591-78-6	2-Hexanone	U	6.41	ug/kg	1.92	6.41
142-28-9	1,3-Dichloropropane	U	1.28	ug/kg	0.385	1.28
127-18-4	Tetrachloroethylene	U	1.28	ug/kg	0.385	1.28
124-48-1	Dibromochloromethane	U	1.28	ug/kg	0.385	1.28
106-93-4	1,2-Dibromoethane	U	1.28	ug/kg	0.385	1.28
108-90-7	Chlorobenzene	U	1.28	ug/kg	0.385	1.28

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434002
 Client ID: RE15-10-8354
 Batch ID: 952586
 Run Date: 02/12/2010 22:12
 Prep Date: 02/12/2010 11:05
 Data File: 021210V2.b\2Y533.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.J
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 22
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.28	ug/kg	0.385	1.28
179601-23-1	m,p-Xylenes	U	2.56	ug/kg	0.385	2.56
95-47-6	o-Xylene	U	1.28	ug/kg	0.385	1.28
100-42-5	Styrene	U	1.28	ug/kg	0.385	1.28
75-25-2	Bromoform	U	1.28	ug/kg	0.385	1.28
79-34-5	1,1,2,2-Tetrachloroethane	U	1.28	ug/kg	0.385	1.28
96-18-4	1,2,3-Trichloropropane	U	1.28	ug/kg	0.385	1.28
108-86-1	Bromobenzene	U	1.28	ug/kg	0.385	1.28
103-65-1	n-Propylbenzene	U	1.28	ug/kg	0.385	1.28
95-49-8	2-Chlorotoluene	U	1.28	ug/kg	0.385	1.28
98-82-8	Isopropylbenzene	U	1.28	ug/kg	0.385	1.28
108-67-8	1,3,5-Trimethylbenzene	U	1.28	ug/kg	0.385	1.28
106-43-4	4-Chlorotoluene	U	1.28	ug/kg	0.385	1.28
98-06-6	tert-Butylbenzene	U	1.28	ug/kg	0.385	1.28
95-63-6	1,2,4-Trimethylbenzene	U	1.28	ug/kg	0.385	1.28
135-98-8	sec-Butylbenzene	U	1.28	ug/kg	0.385	1.28
99-87-6	4-Isopropyltoluene	U	1.28	ug/kg	0.385	1.28
541-73-1	1,3-Dichlorobenzene	U	1.28	ug/kg	0.385	1.28
106-46-7	1,4-Dichlorobenzene	U	1.28	ug/kg	0.385	1.28
104-51-8	n-Butylbenzene	U	1.28	ug/kg	0.385	1.28
96-12-8	1,2-Dibromo-3-chloropropane	U	1.28	ug/kg	0.385	1.28
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.41	ug/kg	2.05	6.41
630-20-6	1,1,1,2-Tetrachloroethane	U	1.28	ug/kg	0.385	1.28
95-50-1	1,2-Dichlorobenzene	U	1.28	ug/kg	0.385	1.28

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	36.6	ug/kg	0	J

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y533.D
Acq On : 12 Feb 2010 10:12 pm
Operator : CDS1
InstName : VOA2
Sample : |246434002|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Feb 15 07:40:33 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev (Min)
1) Fluorobenzene	12.437	12.437	1.000	96	1145487	50.00	ug/L	0.00
41) Chlorobenzene-d5	15.970	15.970	1.000	117	855534	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	457446	50.00	ug/L	0.00
82) B Fluorobenzene	12.437	12.437	1.000	96	1145361	50.00	ug/L	0.00
103) B Chlorobenzene-d5	15.970	15.971	1.000	117	855599	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	457702	50.00	ug/L	0.00
System Monitoring Compounds								Dev (Min)
29) 1,2-Dichloroethane-d4	11.986	11.986	0.964	65	557099	51.77	ug/L	0.00
Spiked Amount	50.000	Range 66 - 134	Recovery	=	103.54%			
43) Toluene-d8	14.346	14.346	0.898	98	1121691	49.04	ug/L	0.00
Spiked Amount	50.000	Range 71 - 128	Recovery	=	98.08%			
61) Bromofluorobenzene	17.227	17.227	0.933	95	511472	52.10	ug/L	0.00
Spiked Amount	50.000	Range 65 - 130	Recovery	=	104.20%			
Target Compounds								
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	QValue
2) Dichlorodifluoromethane	0.000	4.702	0.000		0	N.D.		
3) Chloromethane	4.999	4.999	0.402	50	160	N.D.		
4) Vinyl chloride	5.252	5.266	0.422	62	847	N.D.		
5) Bromomethane	0.000	5.980	0.000		0	N.D.		
6) Chloroethane	0.000	6.223	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000	6.839	0.000		0	N.D.		
8) Ethyl ether	0.000	7.409	0.000		0	N.D.		
9) Acetone	7.990	7.930	0.642	43	3247	N.D.		
10) 1,1-Dichloroethylene	0.000	7.883	0.000		0	N.D.		
11) Iodomethane	0.000	8.167	0.000		0	N.D.		
12) Acetonitrile	0.000	8.452	0.000		0	N.D.		
13) Methyl acetate	0.000	8.571	0.000		0	N.D.		
14) Carbon disulfide	8.298	8.322	0.667	76	929	N.D.		
15) Methylene chloride	8.761	8.772	0.704	84	8124	N.D.		
16) tert-Butyl methyl ether	0.000	9.282	0.000		0	N.D.		
17) trans-1,2-Dichloroethy...	0.000	9.270	0.000		0	N.D.		
18) Vinyl acetate	0.000	10.017	0.000		0	N.D.		
19) 1,1-Dichloroethane	0.000	9.958	0.000		0	N.D.		
20) 2-Butanone	10.848	10.836	0.872	43	258	N.D.		
21) cis-1,2-Dichloroethylene	0.000	10.848	0.000		0	N.D.		
22) 2,2-Dichloropropane	0.000	10.871	0.000		0	N.D.		
23) Bromochloromethane	0.000	11.203	0.000		0	N.D.		
24) Chloroform	11.286	11.298	0.908	83	258	N.D.		
25) 1,1,1-Trichloroethane	0.000	11.606	0.000		0	N.D.		
26) Cyclohexane	11.701	11.713	0.941	56	774	N.D.		
27) 1,1-Dichloropropene	0.000	11.820	0.000		0	N.D.		
28) Carbon tetrachloride	0.000	11.844	0.000		0	N.D.		
30) 1,2-Dichloroethane	0.000	12.093	0.000		0	N.D.		
31) Benzene	12.093	12.093	0.972	78	299	N.D.		
32) Cyclohexene	0.000	12.247	0.000		0	N.D.		
33) n-Butyl alcohol	0.000	12.697	0.000		0	N.D.		
34) Trichloroethylene	0.000	12.899	0.000		0	N.D.		
35) 1,2-Dichloropropane	0.000	13.172	0.000		0	N.D.		
36) Methylcyclohexane	0.000	13.184	0.000		0	N.D.		
37) Dibromomethane	0.000	13.314	0.000		0	N.D.		

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y533.D
Acq On : 12 Feb 2010 10:12 pm
Operator : CDS1
InstName : VOA2
Sample : |246434002|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Feb 15 07:40:33 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
38) Bromodichloromethane	0.000	13.480	0.000		0	N.D.	
39) 2-Chloroethylvinyl ether	0.000	13.800	0.000		0	N.D.	
40) cis-1,3-Dichloropropylene	0.000	14.002	0.000		0	N.D.	
42) 4-Methyl-2-pentanone	0.000	14.144	0.000		0	N.D.	
44) Toluene	14.417	14.429	0.903	91	1523	N.D.	
45) trans-1,3-Dichloroprop...	0.000	14.618	0.000		0	N.D.	
46) 1,1,2-Trichloroethane	0.000	14.844	0.000		0	N.D.	
47) 2-Hexanone	15.081	15.069	0.944	43	159	N.D.	
48) 1,3-Dichloropropane	0.000	15.045	0.000		0	N.D.	
49) Tetrachloroethylene	0.000	15.069	0.000		0	N.D.	
50) Dibromochloromethane	0.000	15.318	0.000		0	N.D.	
51) 1,2-Dibromoethane	0.000	15.472	0.000		0	N.D.	
52) Chlorobenzene	16.006	16.006	1.002	112	438	N.D.	
53) 1,1,1,2-Tetrachloroethane	0.000	16.077	0.000		0	N.D.	
54) Ethylbenzene	16.220	16.101	1.016	91	972	N.D.	
55) m,p-Xylenes	16.220	16.219	1.016	106	359	N.D.	
56) o-Xylene	16.658	16.658	1.043	106	277	N.D.	
57) Styrene	16.658	16.658	1.043	104	265	N.D.	
59) Bromoform	0.000	16.895	0.000		0	N.D.	
60) Isopropylbenzene	17.061	17.038	0.924	105	2787	N.D.	
62) 1,1,2,2-Tetrachloroethane	0.000	17.310	0.000		0	N.D.	
63) 1,2,3-Trichloropropane	0.000	17.393	0.000		0	N.D.	
64) Bromobenzene	17.429	17.429	0.944	156	113	N.D.	
65) n-Propylbenzene	17.465	17.476	0.946	91	306	N.D.	
66) 1,3,5-Trimethylbenzene	17.643	17.642	0.956	105	114	N.D.	
67) 2-Chlorotoluene	17.714	17.607	0.960	126	114	N.D.	
68) 4-Chlorotoluene	17.714	17.714	0.960	91	751	N.D.	
69) tert-Butylbenzene	18.105	18.010	0.981	134	110	N.D.	
70) 1,2,4-Trimethylbenzene	18.046	18.057	0.978	105	374	N.D.	
71) sec-Butylbenzene	0.000	18.235	0.000		0	N.D.	
72) 4-Isopropyltoluene	18.366	18.366	0.995	119	738	N.D.	
73) 1,3-Dichlorobenzene	18.401	18.401	0.997	146	516	N.D.	
74) 1,4-Dichlorobenzene	18.484	18.496	1.001	146	875	N.D.	
75) n-Butylbenzene	18.805	18.805	1.019	91	141	N.D.	
76) 1,2-Dichlorobenzene	18.900	18.899	1.024	146	337	N.D.	
77) 1,2-Dibromo-3-chloropr...	0.000	19.718	0.000		0	N.D.	
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	573	N.D.	
79) Hexachlorobutadiene	0.000	20.868	0.000		0	N.D.	
80) Naphthalene	21.022	21.022	1.139	128	1180	N.D.	
81) 1,2,3-Trichlorobenzene	21.331	21.342	1.155	180	275	N.D.	
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.	
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.	
85) Acrolein	0.000	7.646	0.000		0	N.D.	
86) Trichlorotrifluoroethane	0.000	7.930	0.000		0	N.D.	
87) Isopropyl Alcohol	8.073	8.191	0.649	45	603	N.D.	
88) Allyl chloride	0.000	8.559	0.000		0	N.D.	
89) tert-Butyl Alcohol	8.950	8.938	0.720	59	583	N.D.	
90) Acrylonitrile	0.000	9.164	0.000		0	N.D.	
91) Isopropyl ether	0.000	10.077	0.000		0	N.D.	
92) 2-Chloro-1,3-butadiene	0.000	10.124	0.000		0	N.D.	
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.	
94) Ethyl acetate	10.848	10.919	0.872	43	258	N.D.	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y533.D
Acq On : 12 Feb 2010 10:12 pm
Operator : CDS1
InstName : VOA2
Sample : |246434002|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Feb 15 07:40:33 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

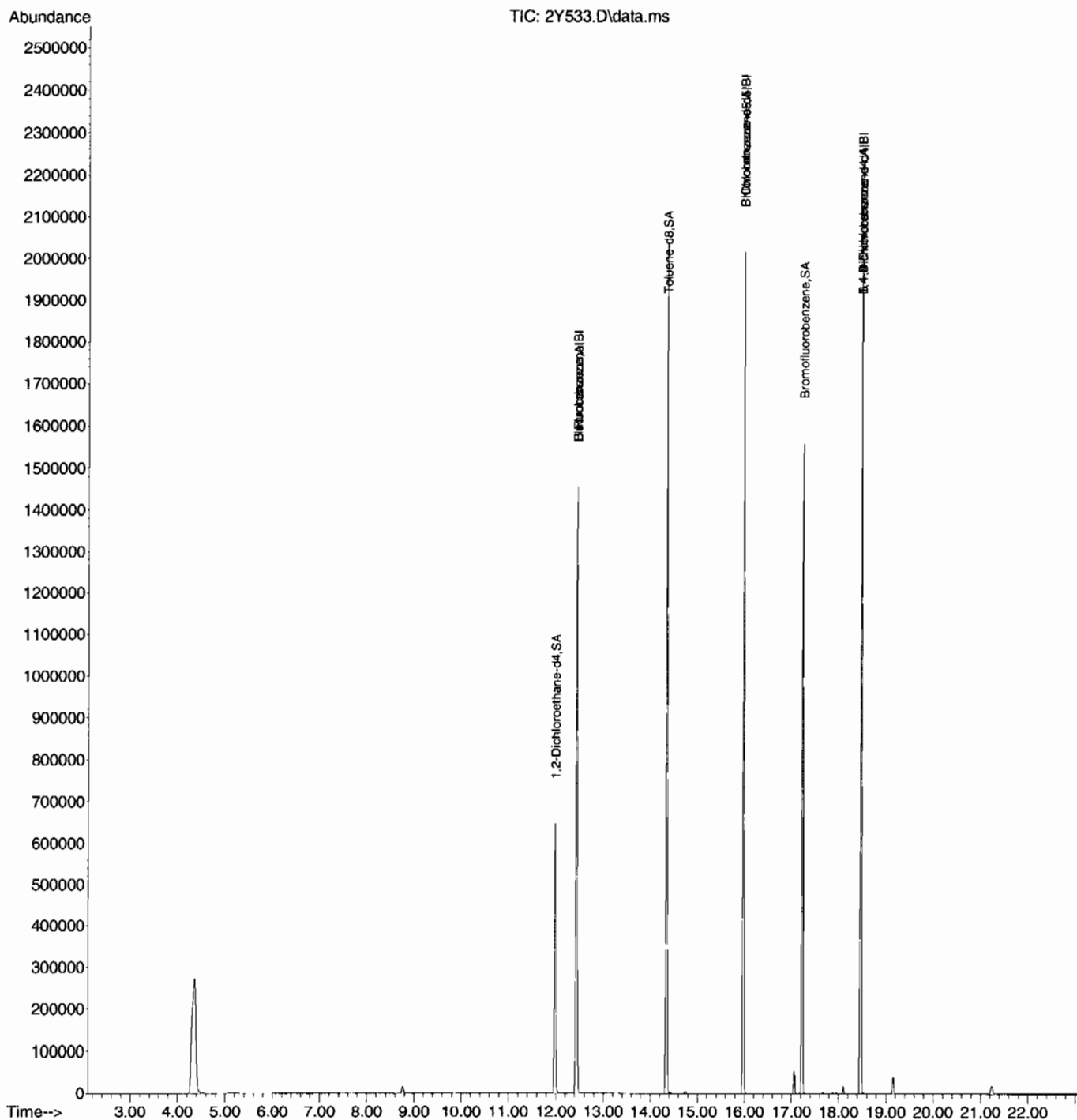
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	0.000	10.907	0.000		0	N.D.	
96) Methacrylonitrile	0.000	11.144	0.000		0	N.D.	
97) Tetrahydrofuran	11.286	11.275	0.908	42	446	N.D.	
98) Isobutyl alcohol	11.974	11.856	0.963	41	125	N.D.	
99) Methyl tert-amyl ether	0.000	12.211	0.000		0	N.D.	
100) Methyl methacrylate	0.000	13.243	0.000		0	N.D.	
101) 1,4-Dioxane	0.000	13.314	0.000		0	N.D.	
102) 2-Nitropropane	0.000	13.729	0.000		0	N.D.	
104) Ethyl methacrylate	0.000	14.678	0.000		0	N.D.	
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	0.000	17.073	0.000		0m	N.D.	d
108) Cyclohexanone	17.050	17.156	0.924	42	308	N.D.	
109) trans-1,4-Dichloro-2-b...	17.370	17.370	0.941	53	152	N.D.	
110) Pentachloroethane	0.000	18.058	0.000		0	N.D.	
111) Benzyl chloride	18.615	18.603	1.008	91	425	N.D.	
112) bis(2-Chloroisopropyl)...	0.000	19.018	0.000		0	N.D.	

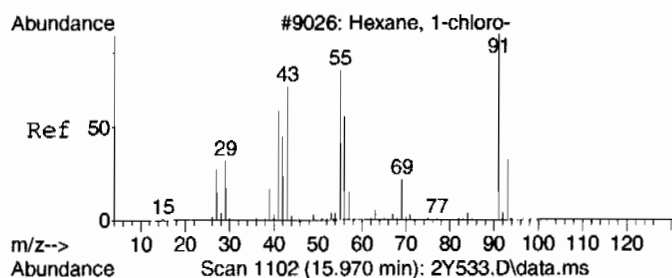
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y533.D
Acq On : 12 Feb 2010 10:12 pm
Operator : CDS1
InstName : VOA2
Sample : |246434002|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 33 Sample Multiplier: 1

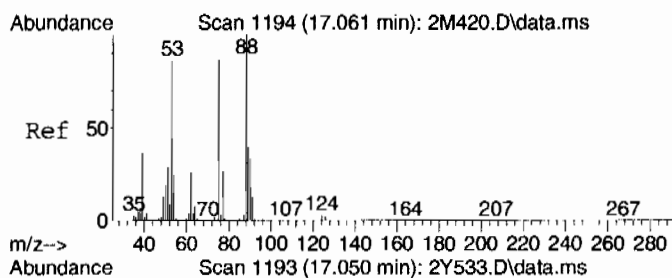
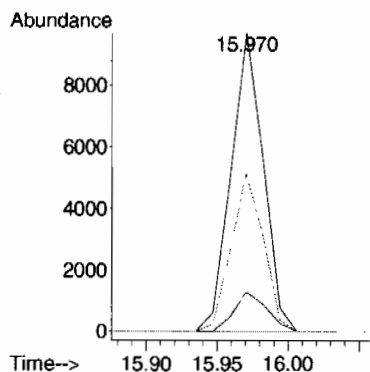
Quant Time: Feb 15 07:40:33 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE





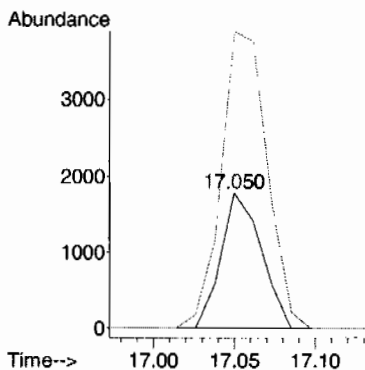
#106 BEFORE analyst DELETION
1-Chlorohexane
Concen: 2.38 ug/L
RT: 15.970 min Scan# 1102
Delta R.T. 0.059 min
Lab File: 2Y533.D
Acq: 12 Feb 2010 10:12 pm

Tgt Ion	Ratio	Lower	Upper
55	100		
91	13.6	66.2	126.2#
56	53.2	26.7	86.7



#107 BEFORE analyst DELETION
cis-1,4-Dichloro-2-butene
Concen: 1.28 ug/L
RT: 17.050 min Scan# 1193
Delta R.T. -0.023 min
Lab File: 2Y533.D
Acq: 12 Feb 2010 10:12 pm

Tgt Ion	Ratio	Lower	Upper
53	100		
88	0.0	81.8	141.8#
77	248.5	0.0	51.3#



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y533.D
Acq On : 12 Feb 2010 10:12 pm
Operator : CDS1
Sample : |246434002|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 33 Sample Multiplier: 1

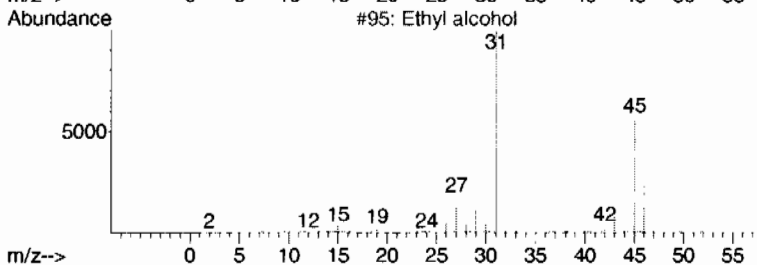
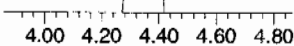
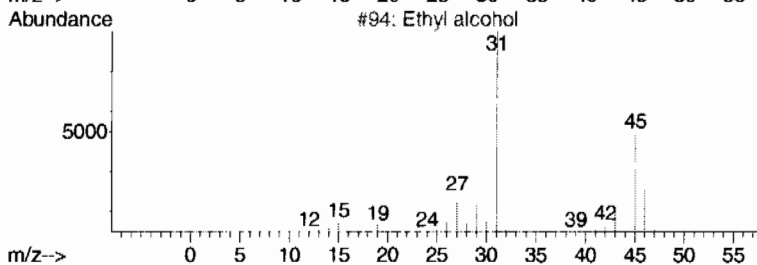
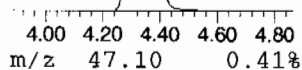
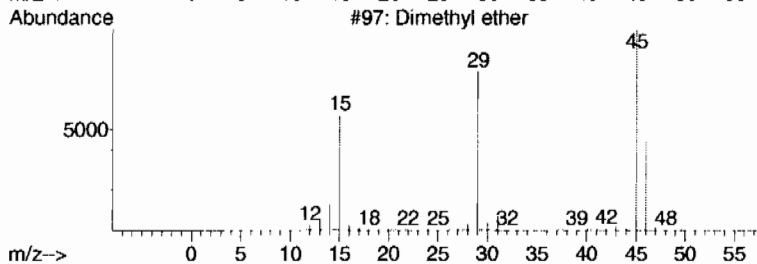
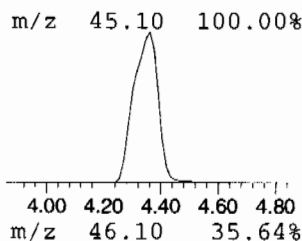
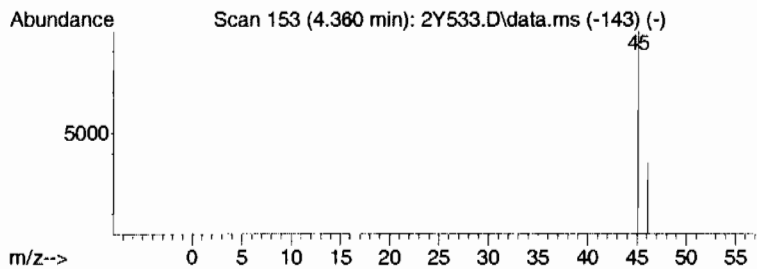
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.360	28.58 ug/L	1628840	Fluorobenzene	12.437

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dimethyl ether	46	C2H6O	000115-10-6	5
2		Ethyl alcohol	46	C2H6O	000064-17-5	4
3		Ethyl alcohol	46	C2H6O	000064-17-5	4
4		Ethyl alcohol	46	C2H6O	000064-17-5	4
5		Formic acid	46	CH2O2	000064-18-6	3



Tentatively Identified Compound (LSC) summary
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y533.D
Acq On : 12 Feb 2010 10:12 pm
Operator : CDS1
Sample : |246434002|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 33 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown	4.360	28.6	ug/L	1628840	1	12.437	2849170	50.0

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434003

Client ID: RE15-10-8356
 Batch ID: 952586
 Run Date: 02/12/2010 22:41
 Prep Date: 02/12/2010 11:06
 Data File: 021210V2.b\2Y534.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 14.7
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.17	ug/kg	0.398	1.17
74-87-3	Chloromethane	U	1.17	ug/kg	0.352	1.17
75-01-4	Vinyl chloride	U	1.17	ug/kg	0.352	1.17
74-83-9	Bromomethane	U	1.17	ug/kg	0.352	1.17
75-00-3	Chloroethane	U	1.17	ug/kg	0.352	1.17
75-69-4	Trichlorofluoromethane	U	1.17	ug/kg	0.352	1.17
67-64-1	Acetone		7.71	ug/kg	1.95	5.86
75-35-4	1,1-Dichloroethylene	U	1.17	ug/kg	0.352	1.17
74-88-4	Iodomethane	U	5.86	ug/kg	1.88	5.86
75-09-2	Methylene chloride	U	5.86	ug/kg	2.34	5.86
75-15-0	Carbon disulfide	U	5.86	ug/kg	1.46	5.86
156-60-5	trans-1,2-Dichloroethylene	U	1.17	ug/kg	0.352	1.17
75-34-3	1,1-Dichloroethane	U	1.17	ug/kg	0.352	1.17
78-93-3	2-Butanone	U	5.86	ug/kg	1.76	5.86
156-59-2	cis-1,2-Dichloroethylene	U	1.17	ug/kg	0.352	1.17
594-20-7	2,2-Dichloropropane	U	1.17	ug/kg	0.352	1.17
67-66-3	Chloroform	U	1.17	ug/kg	0.352	1.17
74-97-5	Bromochloromethane	U	1.17	ug/kg	0.387	1.17
71-55-6	1,1,1-Trichloroethane	U	1.17	ug/kg	0.352	1.17
563-58-6	1,1-Dichloropropene	U	1.17	ug/kg	0.352	1.17
56-23-5	Carbon tetrachloride	U	1.17	ug/kg	0.352	1.17
107-06-2	1,2-Dichloroethane	U	1.17	ug/kg	0.352	1.17
71-43-2	Benzene	U	1.17	ug/kg	0.352	1.17
79-01-6	Trichloroethylene	U	1.17	ug/kg	0.387	1.17
78-87-5	1,2-Dichloropropane	U	1.17	ug/kg	0.352	1.17
75-27-4	Bromodichloromethane	U	1.17	ug/kg	0.352	1.17
74-95-3	Dibromomethane	U	1.17	ug/kg	0.352	1.17
108-10-1	4-Methyl-2-pentanone	U	5.86	ug/kg	1.46	5.86
10061-01-5	cis-1,3-Dichloropropylene	U	1.17	ug/kg	0.352	1.17
108-88-3	Toluene		3.83	ug/kg	0.352	1.17
10061-02-6	trans-1,3-Dichloropropylene	U	1.17	ug/kg	0.352	1.17
79-00-5	1,1,2-Trichloroethane	U	1.17	ug/kg	0.352	1.17
591-78-6	2-Hexanone	U	5.86	ug/kg	1.76	5.86
142-28-9	1,3-Dichloropropane	U	1.17	ug/kg	0.352	1.17
127-18-4	Tetrachloroethylene	U	1.17	ug/kg	0.352	1.17
124-48-1	Dibromochloromethane	U	1.17	ug/kg	0.352	1.17
106-93-4	1,2-Dibromoethane	U	1.17	ug/kg	0.352	1.17
108-90-7	Chlorobenzene	U	1.17	ug/kg	0.352	1.17

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434003	Date Received: 02/06/2010 09:15	%Moisture: 14.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8356	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/12/2010 22:41	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:06	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y534.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.17	ug/kg	0.352	1.17
179601-23-1	m,p-Xylenes	J	0.422	ug/kg	0.352	2.34
95-47-6	o-Xylene	U	1.17	ug/kg	0.352	1.17
100-42-5	Styrene	U	1.17	ug/kg	0.352	1.17
75-25-2	Bromoform	U	1.17	ug/kg	0.352	1.17
79-34-5	1,1,2,2-Tetrachloroethane	U	1.17	ug/kg	0.352	1.17
96-18-4	1,2,3-Trichloropropane	U	1.17	ug/kg	0.352	1.17
108-86-1	Bromobenzene	U	1.17	ug/kg	0.352	1.17
103-65-1	n-Propylbenzene	U	1.17	ug/kg	0.352	1.17
95-49-8	2-Chlorotoluene	U	1.17	ug/kg	0.352	1.17
98-82-8	Isopropylbenzene	U	1.17	ug/kg	0.352	1.17
108-67-8	1,3,5-Trimethylbenzene	U	1.17	ug/kg	0.352	1.17
106-43-4	4-Chlorotoluene	U	1.17	ug/kg	0.352	1.17
98-06-6	tert-Butylbenzene	U	1.17	ug/kg	0.352	1.17
95-63-6	1,2,4-Trimethylbenzene	U	1.17	ug/kg	0.352	1.17
135-98-8	sec-Butylbenzene	U	1.17	ug/kg	0.352	1.17
99-87-6	4-Isopropyltoluene		2.95	ug/kg	0.352	1.17
541-73-1	1,3-Dichlorobenzene	U	1.17	ug/kg	0.352	1.17
106-46-7	1,4-Dichlorobenzene	U	1.17	ug/kg	0.352	1.17
104-51-8	n-Butylbenzene	U	1.17	ug/kg	0.352	1.17
96-12-8	1,2-Dibromo-3-chloropropane	U	1.17	ug/kg	0.352	1.17
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.86	ug/kg	1.88	5.86
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.17	ug/kg	0.352	1.17
95-50-1	1,2-Dichlorobenzene	U	1.17	ug/kg	0.352	1.17

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	47.9	ug/kg	0	J
	unknown hydrocarbon	17.06	83.2	ug/kg	0	J
	unknown hydrocarbon	17.38	6.01	ug/kg	0	J
	unknown aromatic	17.7	11.9	ug/kg	0	J
	unknown hydrocarbon	17.79	19.1	ug/kg	0	J
	unknown hydrocarbon	18.11	25.8	ug/kg	0	J

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y534.D
Acq On : 12 Feb 2010 10:41 pm
Operator : CDS1
InstName : VOA2
Sample : |246434003|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Feb 15 07:41:30 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev(Min)
1) Fluorobenzene	12.437	12.437	1.000	96	1082879	50.00	ug/L	0.00
41) Chlorobenzene-d5	15.971	15.970	1.000	117	743655	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	359559	50.00	ug/L	0.00
82) B Fluorobenzene	12.437	12.437	1.000	96	1082604	50.00	ug/L	0.00
103) B Chlorobenzene-d5	15.971	15.971	1.000	117	743887	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	359734	50.00	ug/L	0.00
System Monitoring Compounds								Dev(Min)
29) 1,2-Dichloroethane-d4	11.986	11.986	0.964	65	520586	51.17	ug/L	0.00
Spiked Amount 50.000	Range 66	- 134	Recovery	=	102.34%			
43) Toluene-d8	14.346	14.346	0.898	98	1034744	52.04	ug/L	0.00
Spiked Amount 50.000	Range 71	- 128	Recovery	=	104.08%			
61) Bromofluorobenzene	17.228	17.227	0.933	95	432349	56.03	ug/L	0.00
Spiked Amount 50.000	Range 65	- 130	Recovery	=	112.06%			
Target Compounds								QValue
2) Dichlorodifluoromethane	0.000	4.702	0.000		0	N.D.		
3) Chloromethane	0.000	4.999	0.000		0	N.D.		
4) Vinyl chloride	5.252	5.266	0.422	62	873	N.D.		
5) Bromomethane	0.000	5.980	0.000		0	N.D.		
6) Chloroethane	0.000	6.223	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000	6.839	0.000		0	N.D.		
8) Ethyl ether	0.000	7.409	0.000		0	N.D.		
9) Acetone	7.966	7.930	0.641	43	28644	6.58	ug/L	93
10) 1,1-Dichloroethylene	7.895	7.883	0.635	61	1371	N.D.		
11) Iodomethane	0.000	8.167	0.000		0	N.D.		
12) Acetonitrile	8.488	8.452	0.682	41	120	N.D.		
13) Methyl acetate	8.618	8.571	0.693	43	1155	N.D.		
14) Carbon disulfide	8.310	8.322	0.668	76	843	N.D.		
15) Methylene chloride	8.772	8.772	0.705	84	9967	N.D.		
16) tert-Butyl methyl ether	0.000	9.282	0.000		0	N.D.		
17) trans-1,2-Dichloroethy...	0.000	9.270	0.000		0	N.D.		
18) Vinyl acetate	0.000	10.017	0.000		0	N.D.		
19) 1,1-Dichloroethane	0.000	9.958	0.000		0	N.D.		
20) 2-Butanone	10.860	10.836	0.873	43	1863	N.D.		
21) cis-1,2-Dichloroethylene	0.000	10.848	0.000		0	N.D.		
22) 2,2-Dichloropropane	0.000	10.871	0.000		0	N.D.		
23) Bromochloromethane	0.000	11.203	0.000		0	N.D.		
24) Chloroform	11.310	11.298	0.909	83	378	N.D.		
25) 1,1,1-Trichloroethane	0.000	11.606	0.000		0	N.D.		
26) Cyclohexane	11.701	11.713	0.941	56	1371	N.D.		
27) 1,1-Dichloropropene	0.000	11.820	0.000		0	N.D.		
28) Carbon tetrachloride	0.000	11.844	0.000		0	N.D.		
30) 1,2-Dichloroethane	0.000	12.093	0.000		0	N.D.		
31) Benzene	12.105	12.093	0.973	78	939	N.D.		
32) Cyclohexene	0.000	12.247	0.000		0	N.D.		
33) n-Butyl alcohol	0.000	12.697	0.000		0	N.D.		
34) Trichloroethylene	0.000	12.899	0.000		0	N.D.		
35) 1,2-Dichloropropane	0.000	13.172	0.000		0	N.D.		
36) Methylcyclohexane	0.000	13.184	0.000		0	N.D.		
37) Dibromomethane	0.000	13.314	0.000		0	N.D.		

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y534.D
Acq On : 12 Feb 2010 10:41 pm
Operator : CDS1
InstName : VOA2
Sample : |246434003|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Feb 15 07:41:30 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
38) Bromodichloromethane	0.000	13.480	0.000		0	N.D.		
39) 2-Chloroethylvinyl ether	0.000	13.800	0.000		0	N.D.		
40) cis-1,3-Dichloropropylene	0.000	14.002	0.000		0	N.D.		
42) 4-Methyl-2-pentanone	0.000	14.144	0.000		0	N.D.		
44) Toluene	14.429	14.429	0.903	91	58982	3.27 ug/L		98
45) trans-1,3-Dichloroprop...	0.000	14.618	0.000		0	N.D.		
46) 1,1,2-Trichloroethane	0.000	14.844	0.000		0	N.D.		
47) 2-Hexanone	15.081	15.069	0.944	43	142	N.D.		
48) 1,3-Dichloropropane	0.000	15.045	0.000		0	N.D.		
49) Tetrachloroethylene	0.000	15.069	0.000		0	N.D.		
50) Dibromochloromethane	0.000	15.318	0.000		0	N.D.		
51) 1,2-Dibromoethane	0.000	15.472	0.000		0	N.D.		
52) Chlorobenzene	16.006	16.006	1.002	112	379	N.D.		
53) 1,1,1,2-Tetrachloroethane	0.000	16.077	0.000		0	N.D.		
54) Ethylbenzene	16.101	16.101	1.008	91	1683	N.D.		
55) m,p-Xylenes	16.208	16.219	1.015	106	2916	0.36 ug/L		87
56) o-Xylene	16.658	16.658	1.043	106	1576	N.D.		
57) Styrene	16.658	16.658	1.043	104	857	N.D.		
59) Bromoform	0.000	16.895	0.000		0	N.D.		
60) Isopropylbenzene	0.000	17.038	0.000		0m	N.D. d		
62) 1,1,2,2-Tetrachloroethane	0.000	17.310	0.000		0	N.D.		
63) 1,2,3-Trichloropropane	0.000	17.393	0.000		0	N.D.		
64) Bromobenzene	17.429	17.429	0.944	156	122	N.D.		
65) n-Propylbenzene	0.000	17.476	0.000		0	N.D.		
66) 1,3,5-Trimethylbenzene	17.643	17.642	0.956	105	552	N.D.		
67) 2-Chlorotoluene	17.714	17.607	0.960	126	107	N.D.		
68) 4-Chlorotoluene	0.000	17.714	0.000		0m	N.D. d		
69) tert-Butylbenzene	18.046	18.010	0.978	134	116	N.D.		
70) 1,2,4-Trimethylbenzene	0.000	18.057	0.000		0m	N.D. d		
71) sec-Butylbenzene	0.000	18.235	0.000		0m	N.D. d		
72) 4-Isopropyltoluene	18.366	18.366	0.995	119	41649	2.52 ug/L #		71
73) 1,3-Dichlorobenzene	18.401	18.401	0.997	146	469	N.D.		
74) 1,4-Dichlorobenzene	18.496	18.496	1.002	146	789	N.D.		
75) n-Butylbenzene	18.805	18.805	1.019	91	819	N.D.		
76) 1,2-Dichlorobenzene	18.900	18.899	1.024	146	366	N.D.		
77) 1,2-Dibromo-3-chloropr...	0.000	19.718	0.000		0	N.D.		
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	565	N.D.		
79) Hexachlorobutadiene	0.000	20.868	0.000		0	N.D.		
80) Naphthalene	21.034	21.022	1.139	128	1571	N.D.		
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156	180	149	N.D.		
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.		
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.		
85) Acrolein	0.000	7.646	0.000		0	N.D.		
86) Trichlorotrifluoroethane	0.000	7.930	0.000		0	N.D.		
87) Isopropyl Alcohol	8.227	8.191	0.662	45	3765	N.D.		
88) Allyl chloride	8.488	8.559	0.682	41	120	N.D.		
89) tert-Butyl Alcohol	8.950	8.938	0.720	59	467	N.D.		
90) Acrylonitrile	0.000	9.164	0.000		0	N.D.		
91) Isopropyl ether	0.000	10.077	0.000		0	N.D.		
92) 2-Chloro-1,3-butadiene	0.000	10.124	0.000		0	N.D.		
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.		
94) Ethyl acetate	10.860	10.919	0.873	43	1863	N.D.		

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y534.D
Acq On : 12 Feb 2010 10:41 pm
Operator : CDS1
InstName : VOA2
Sample : |246434003|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Feb 15 07:41:30 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

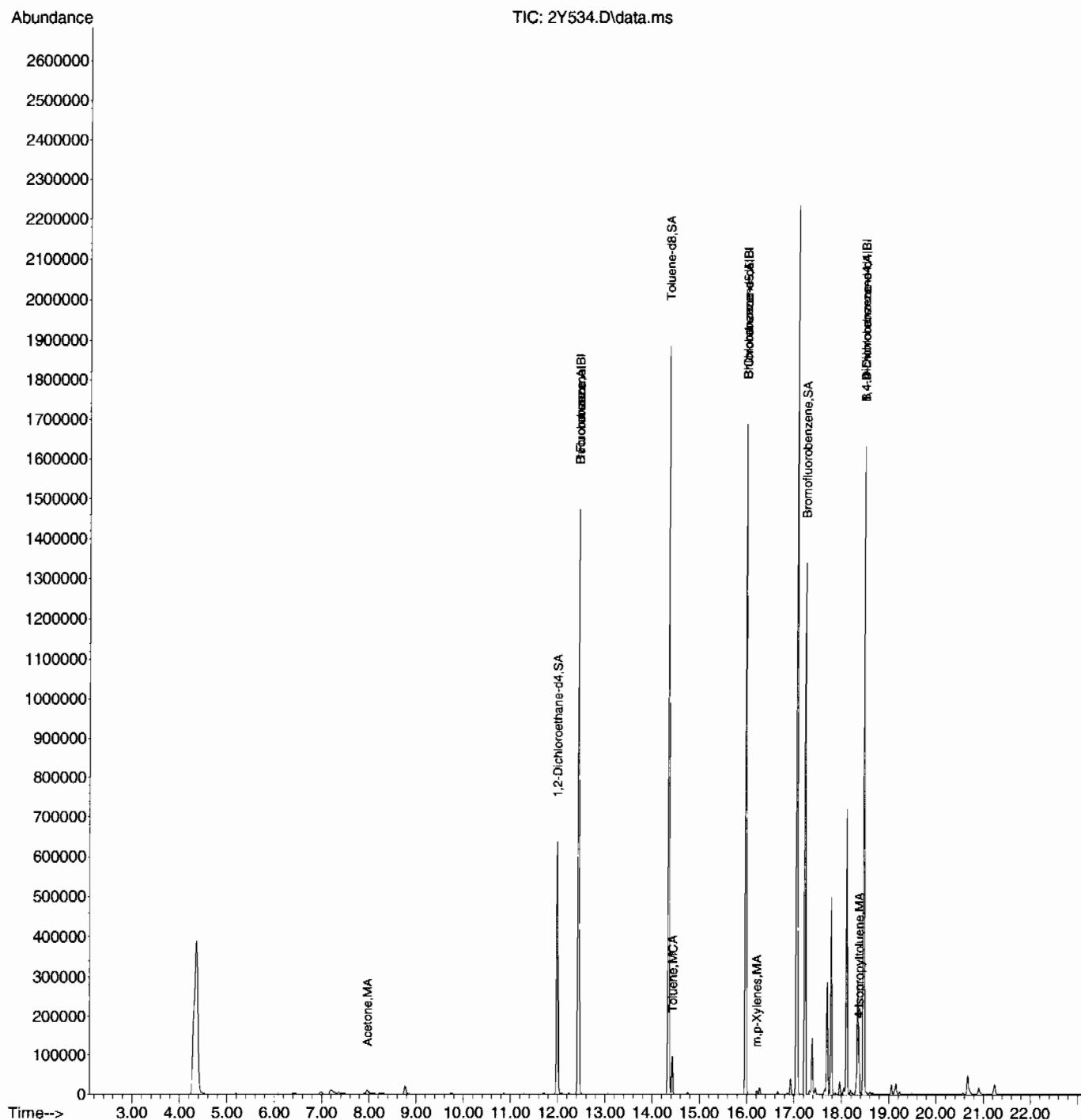
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	0.000	10.907	0.000		0	N.D.	
96) Methacrylonitrile	0.000	11.144	0.000		0	N.D.	
97) Tetrahydrofuran	11.298	11.275	0.908	42	333	N.D.	
98) Isobutyl alcohol	11.856	11.856	0.953	41	359	N.D.	
99) Methyl tert-amyl ether	0.000	12.211	0.000		0	N.D.	
100) Methyl methacrylate	0.000	13.243	0.000		0	N.D.	
101) 1,4-Dioxane	0.000	13.314	0.000		0	N.D.	
102) 2-Nitropropane	0.000	13.729	0.000		0	N.D.	
104) Ethyl methacrylate	0.000	14.678	0.000		0	N.D.	
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	0.000	17.073	0.000		0m	N.D.	d
108) Cyclohexanone	0.000	17.156	0.000		0m	N.D.	d
109) trans-1,4-Dichloro-2-b...	0.000	17.370	0.000		0m	N.D.	d
110) Pentachloroethane	0.000	18.058	0.000		0	N.D.	
111) Benzyl chloride	18.603	18.603	1.008	91	1283	N.D.	
112) bis(2-Chloroisopropyl)...	19.149	19.018	1.037	45	1467	N.D.	

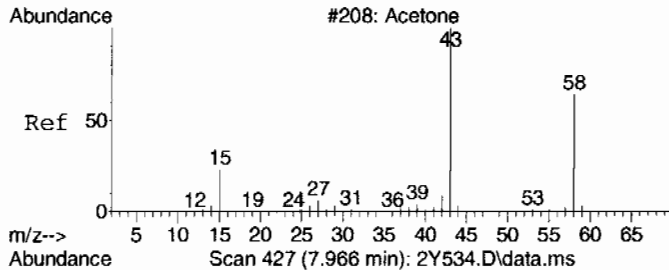
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y534.D
Acq On : 12 Feb 2010 10:41 pm
Operator : CDS1
InstName : VOA2
Sample : |246434003|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 34 Sample Multiplier: 1

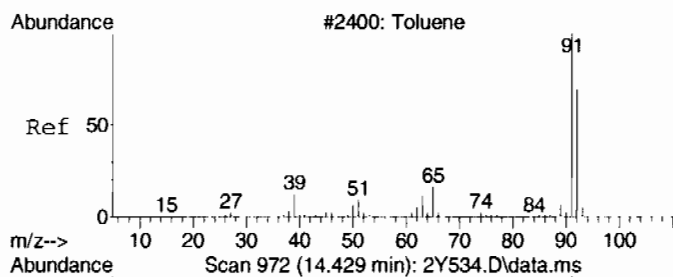
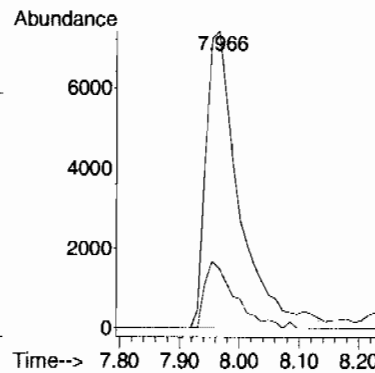
Quant Time: Feb 15 07:41:30 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE





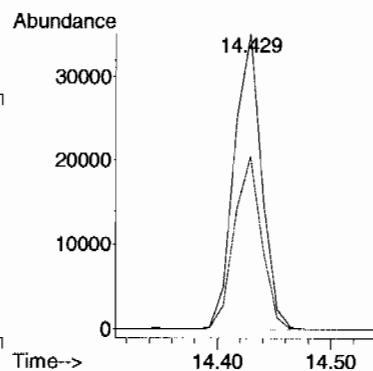
#9
Acetone
Concen: 6.58 ug/L
RT: 7.966 min Scan# 427
Delta R.T. 0.036 min
Lab File: 2Y534.D
Acq: 12 Feb 2010 10:41 pm

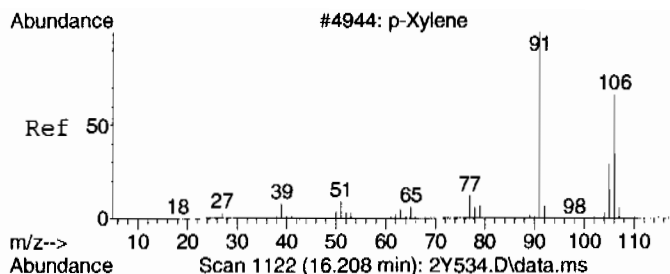
Tgt Ion	Ratio	Lower	Upper
43	100		
58	20.6	0.0	54.1



#44
Toluene
Concen: 3.27 ug/L
RT: 14.429 min Scan# 972
Delta R.T. -0.000 min
Lab File: 2Y534.D
Acq: 12 Feb 2010 10:41 pm

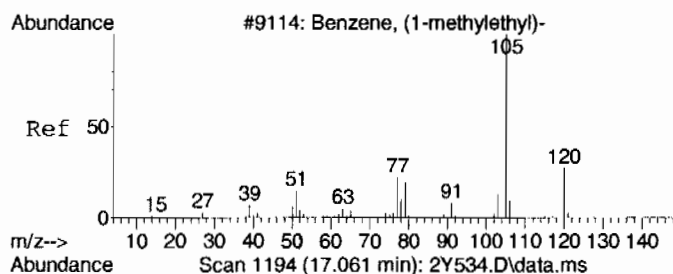
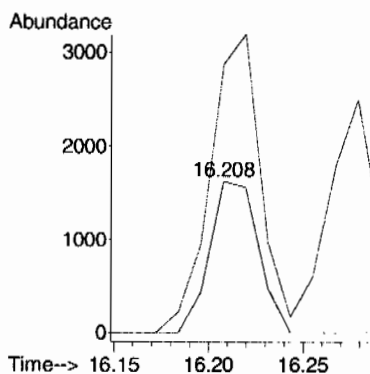
Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.2	30.1	90.1





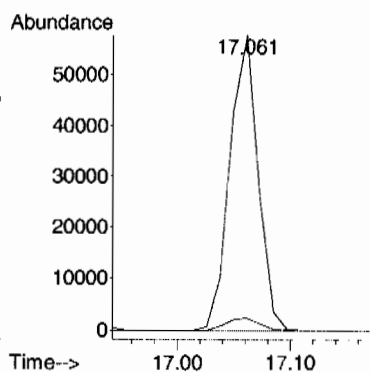
#55
m,p-Xylenes
Concen: 0.36 ug/L
RT: 16.208 min Scan# 1122
Delta R.T. -0.011 min
Lab File: 2Y534.D
Acq: 12 Feb 2010 10:41 pm

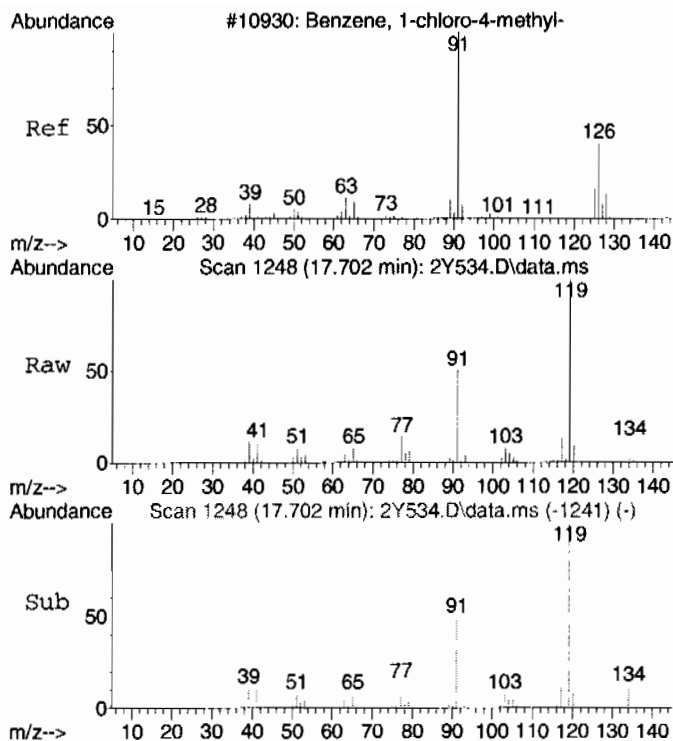
Tgt Ion:106 Resp: 2916
Ion Ratio Lower Upper
106 100
91 204.0 195.1 255.1



#60 BEFORE analyst DELETION
Isopropylbenzene
Concen: 5.39 ug/L
RT: 17.061 min Scan# 1194
Delta R.T. 0.023 min
Lab File: 2Y534.D
Acq: 12 Feb 2010 10:41 pm

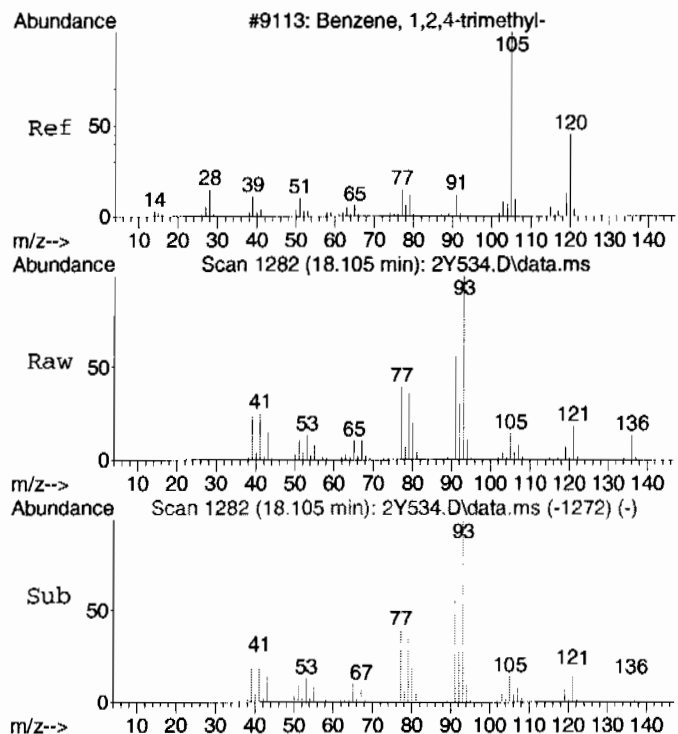
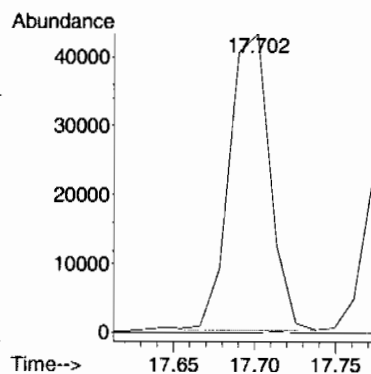
Tgt Ion:105 Resp: 99818
Ion Ratio Lower Upper
105 100
120 4.7 0.0 54.3





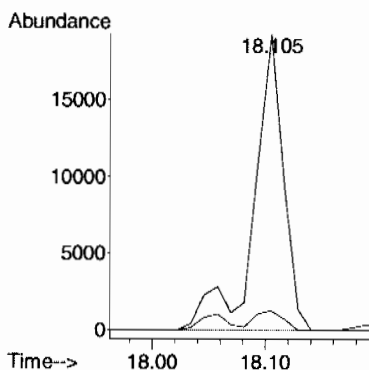
#68 BEFORE analyst DELETION
4-Chlorotoluene
Concen: 5.06 ug/L
RT: 17.702 min Scan# 1248
Delta R.T. -0.012 min
Lab File: 2Y534.D
Acq: 12 Feb 2010 10:41 pm

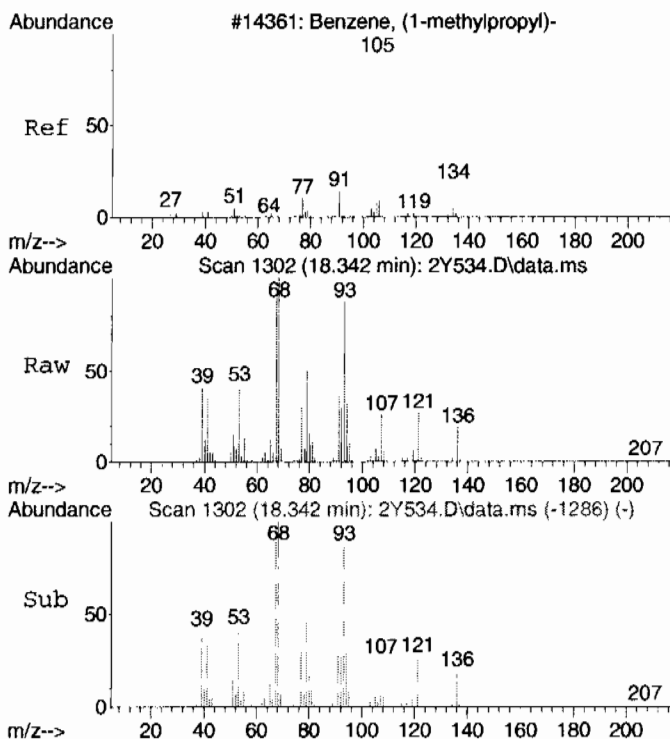
Tgt Ion: 91 Resp: 75479
Ion Ratio Lower Upper
91 100
126 0.1 0.0 58.6



#70 BEFORE analyst DELETION
1,2,4-Trimethylbenzene
Concen: 2.07 ug/L
RT: 18.105 min Scan# 1282
Delta R.T. 0.048 min
Lab File: 2Y534.D
Acq: 12 Feb 2010 10:41 pm

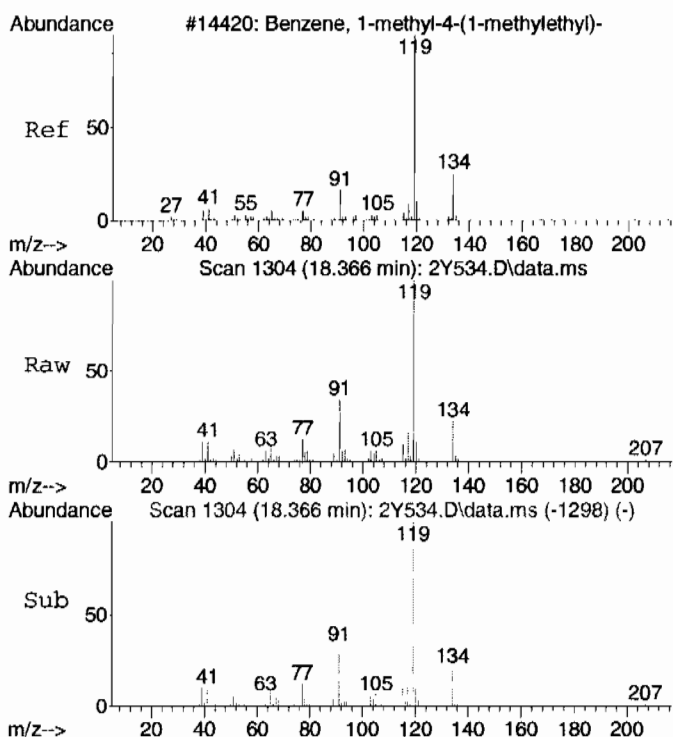
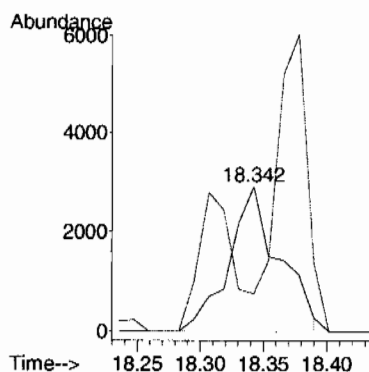
Tgt Ion: 105 Resp: 35031
Ion Ratio Lower Upper
105 100
120 5.5 11.0 71.0#





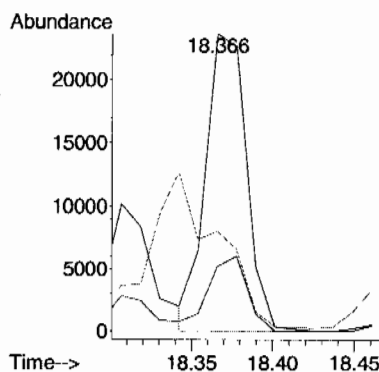
#71 BEFORE analyst DELETION
sec-Butylbenzene
Concen: 0.39 ug/L
RT: 18.342 min Scan# 1302
Delta R.T. 0.107 min
Lab File: 2Y534.D
Acq: 12 Feb 2010 10:41 pm

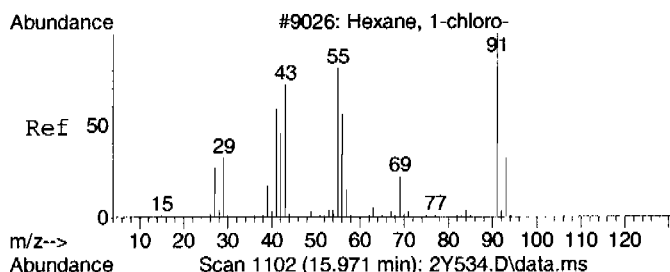
Tgt Ion:105 Resp: 7990
Ion Ratio Lower Upper
105 100
134 98.1 0.0 48.3#



#72
4-Isopropyltoluene
Concen: 2.52 ug/L
RT: 18.366 min Scan# 1304
Delta R.T. -0.000 min
Lab File: 2Y534.D
Acq: 12 Feb 2010 10:41 pm

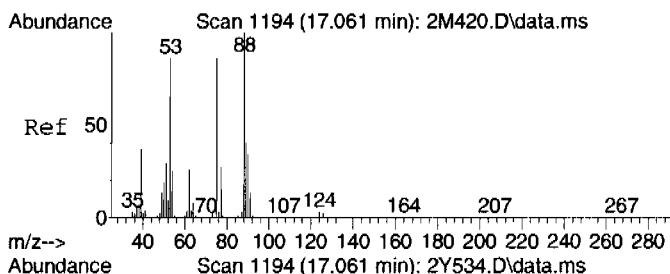
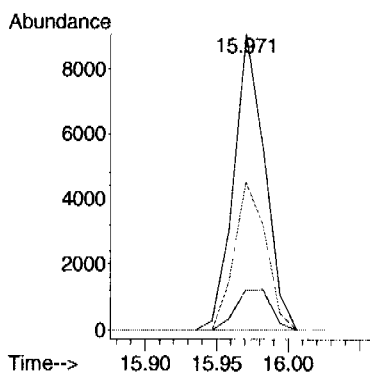
Tgt Ion:119 Resp: 41649
Ion Ratio Lower Upper
119 100
134 24.0 0.0 54.1
91 0.0 0.0 58.1





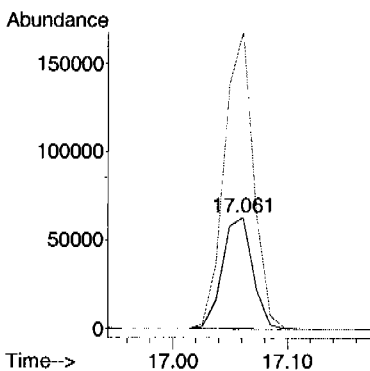
#106 BEFORE analyst DELETION
1-Chlorohexane
Concen: 2.67 ug/L
RT: 15.971 min Scan# 1102
Delta R.T. 0.060 min
Lab File: 2Y534.D
Acq: 12 Feb 2010 10:41 pm

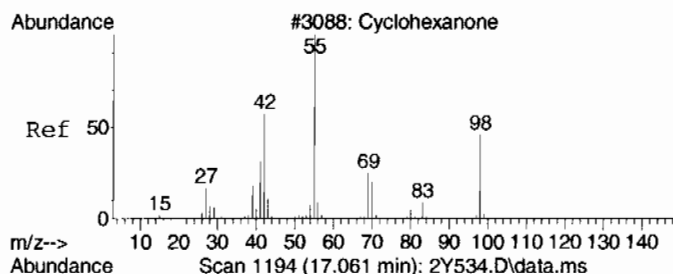
Tgt Ion	Ratio	Lower	Upper
55	100		
91	15.8	66.2	126.2#
56	50.9	26.7	86.7



#107 BEFORE analyst DELETION
cis-1,4-Dichloro-2-butene
Concen: 60.56 ug/L
RT: 17.061 min Scan# 1194
Delta R.T. -0.012 min
Lab File: 2Y534.D
Acq: 12 Feb 2010 10:41 pm

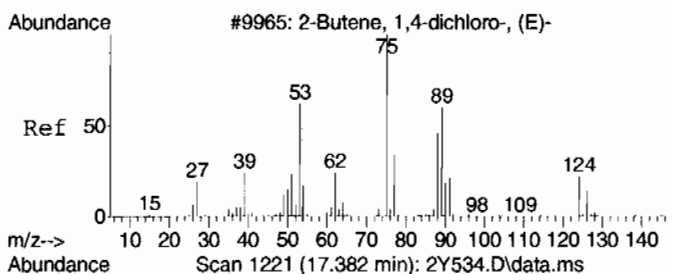
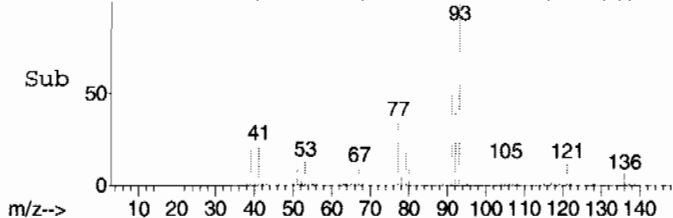
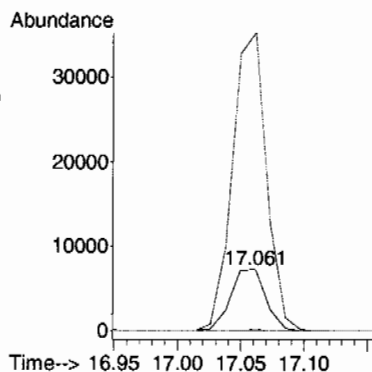
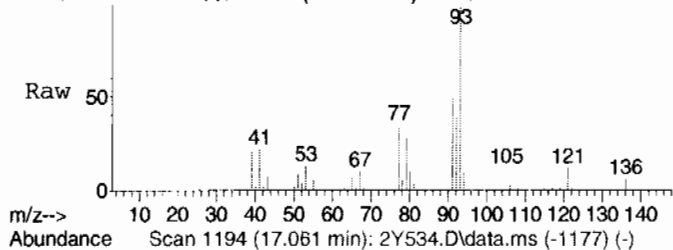
Tgt Ion	Ratio	Lower	Upper
53	100		
88	0.2	81.8	141.8#
77	257.7	0.0	51.3#





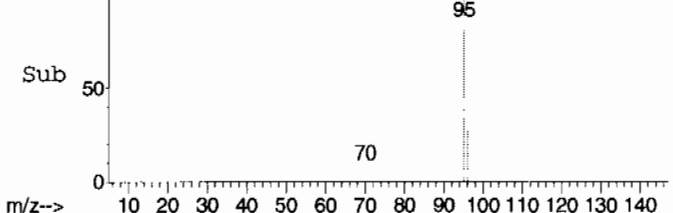
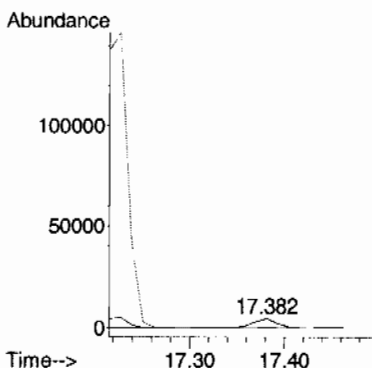
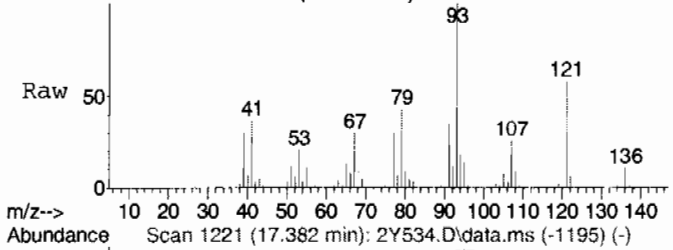
#108 BEFORE analyst DELETION
Cyclohexanone
Concen: 21.99 ug/L
RT: 17.061 min Scan# 1194
Delta R.T. -0.095 min
Lab File: 2Y534.D
Acq: 12 Feb 2010 10:41 pm

Tgt Ion	Ratio	Lower	Upper
42	100		
55	468.1	108.0	168.0#
98	1.0	16.2	76.2#



#109 BEFORE analyst DELETION
trans-1,4-Dichloro-2-butene
Concen: 4.54 ug/L
RT: 17.382 min Scan# 1221
Delta R.T. 0.012 min
Lab File: 2Y534.D
Acq: 12 Feb 2010 10:41 pm

Tgt Ion	Ratio	Lower	Upper
53	100		
88	0.0	22.0	82.0#
75	1.6	51.9	111.9#



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y534.D
Acq On : 12 Feb 2010 10:41 pm
Operator : CDS1
Sample : |246434003|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 34 Sample Multiplier: 1

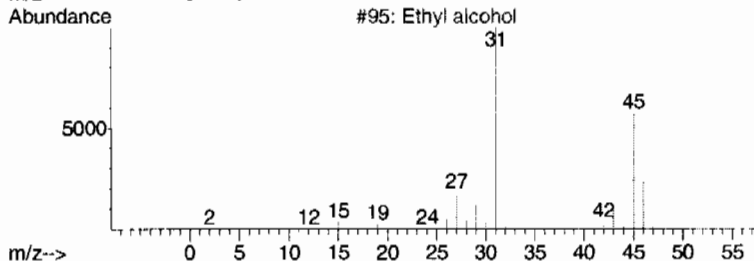
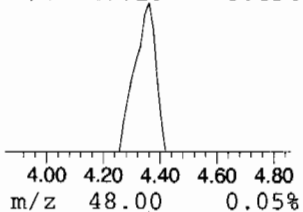
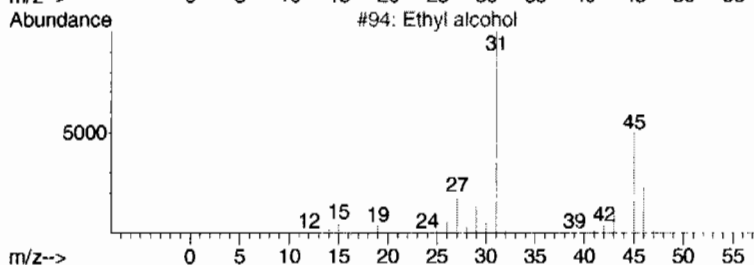
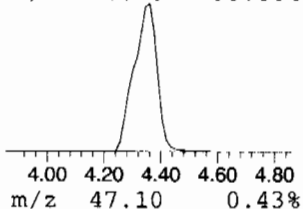
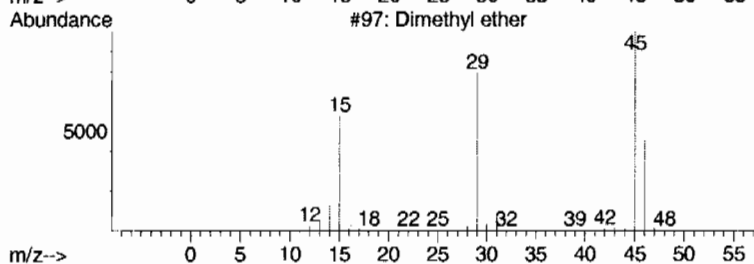
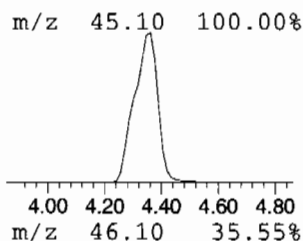
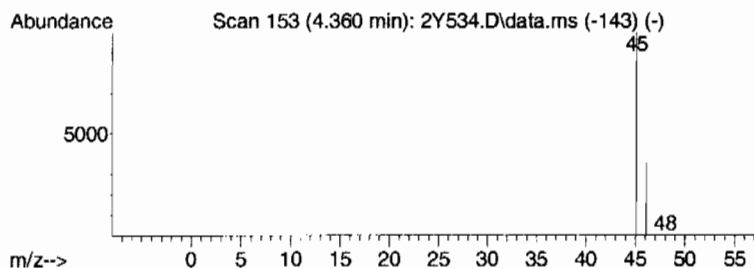
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Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 1 unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.360	40.85 ug/L	2225870	Fluorobenzene	12.437

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Dimethyl ether	46	C2H6O	000115-10-6	5
2			Ethyl alcohol	46	C2H6O	000064-17-5	4
3			Ethyl alcohol	46	C2H6O	000064-17-5	4
4			Ethyl alcohol	46	C2H6O	000064-17-5	4
5			Formic acid	46	CH2O2	000064-18-6	3



Library Search Compound Report
GEL Laboratories, LLC

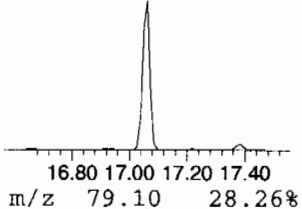
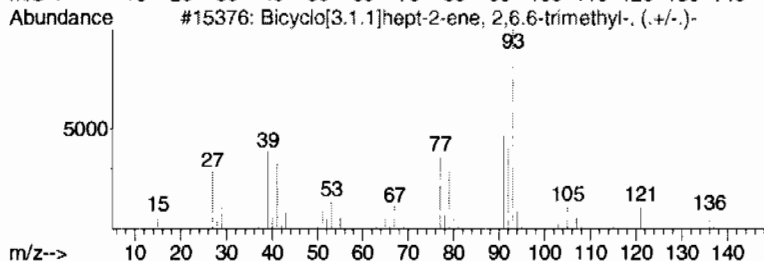
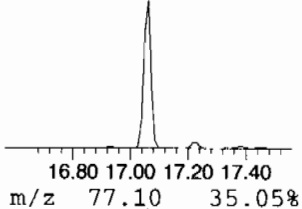
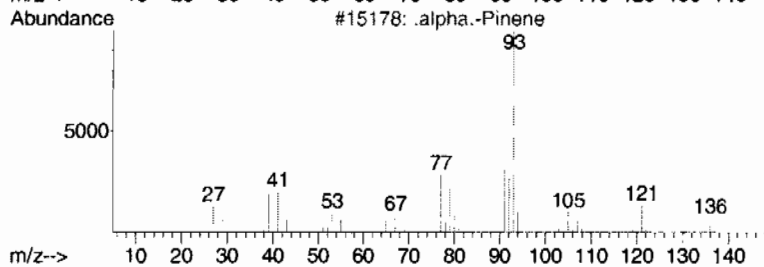
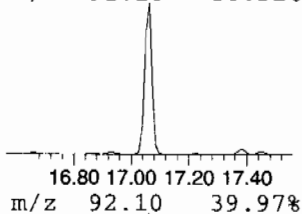
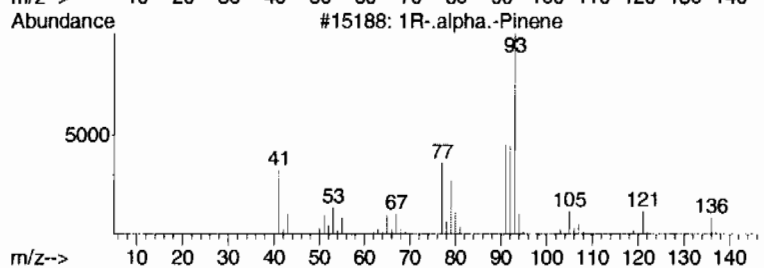
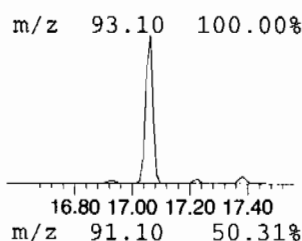
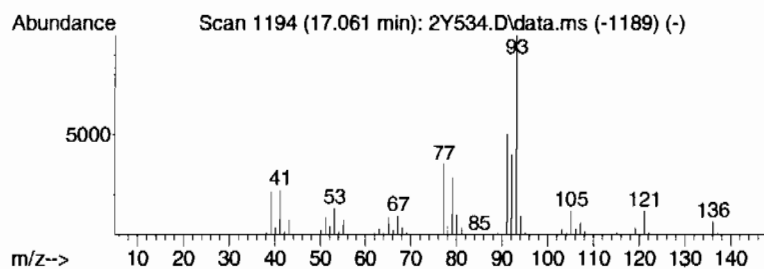
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Data File : 2Y534.D
Acq On : 12 Feb 2010 10:41 pm
Operator : CDS1
Sample : |246434003|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 34 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 2 unknown hydrocarbon Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD			R.T.
17.061	71.00 ug/L	4007120	B Chlorobenzene-d5			15.970
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		1R-.alpha.-Pinene	136	C10H16	007785-70-8	97
2		.alpha.-Pinene	136	C10H16	000080-56-8	96
3		Bicyclo[3.1.1]hept-2-ene, 2,6,6-...	136	C10H16	002437-95-8	95
4		Bicyclo[3.1.1]hept-2-ene, 3,6,6-...	136	C10H16	004889-83-2	91
5		.alpha.-Pinene	136	C10H16	000080-56-8	90



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y534.D
Acq On : 12 Feb 2010 10:41 pm
Operator : CDS1
Sample : |246434003|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 34 Sample Multiplier: 1

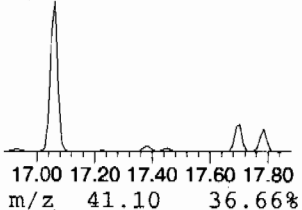
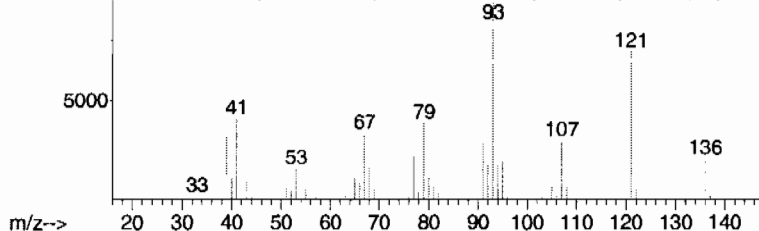
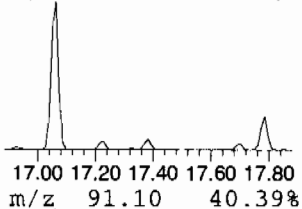
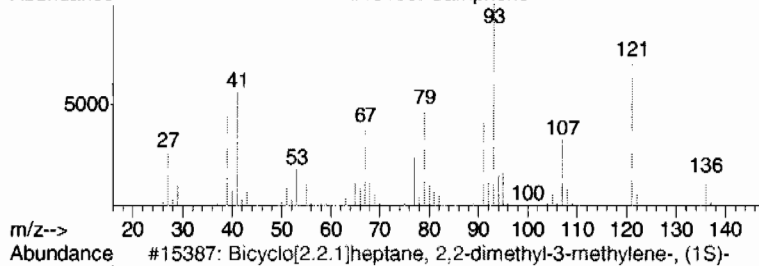
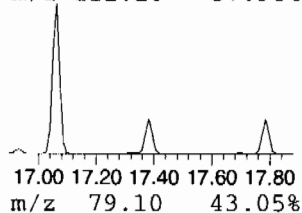
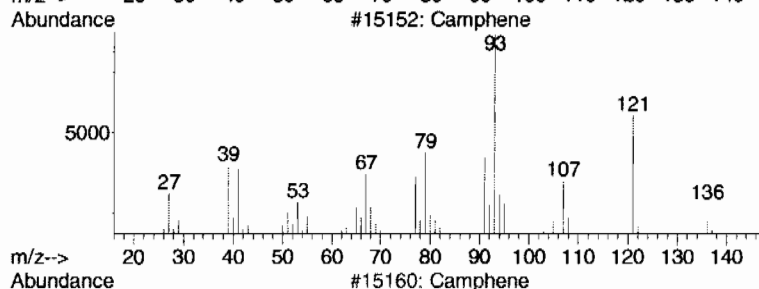
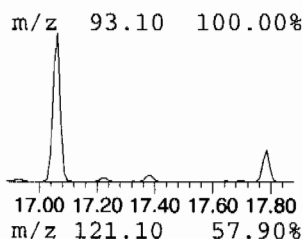
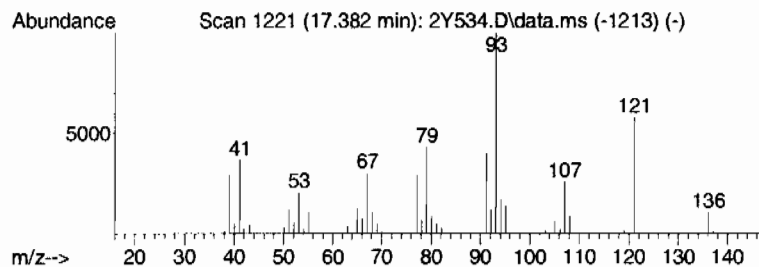
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 3 unknown hydrocarbon Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.382	5.13 ug/L	266872	1,4-Dichlorobenzene-d4	18.461

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Camphene	136	C10H16	000079-92-5	97
2		Camphene	136	C10H16	000079-92-5	94
3		Bicyclo[2.2.1]heptane, 2,2-dimet...	136	C10H16	005794-04-7	93
4		1,3,6-Heptatriene, 2,5,5-trimethyl-	136	C10H16	029548-02-5	87
5		Bicyclo[4.1.0]hept-2-ene, 3,7,7-...	136	C10H16	000554-61-0	86



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y534.D
Acq On : 12 Feb 2010 10:41 pm
Operator : CDS1
Sample : |246434003|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 34 Sample Multiplier: 1

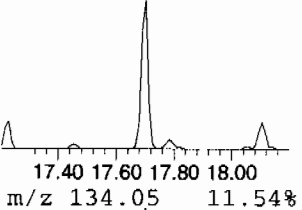
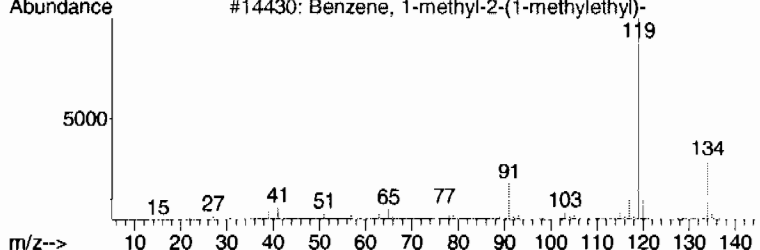
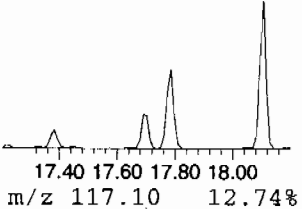
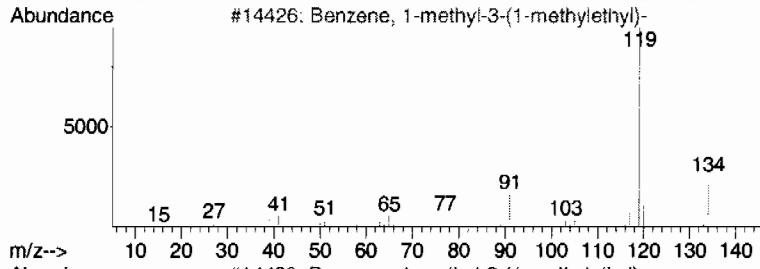
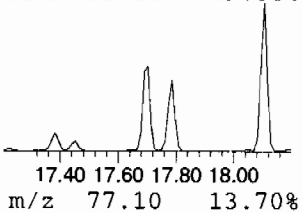
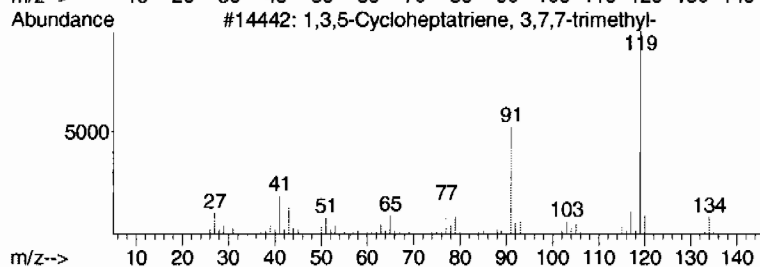
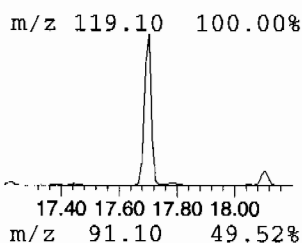
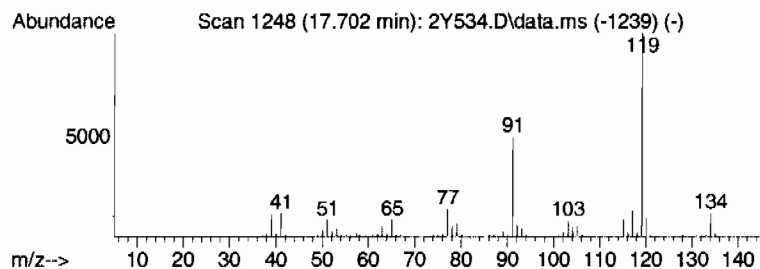
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 4 unknown aromatic Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.702	10.18 ug/L	529453	1,4-Dichlorobenzene-d4	18.461

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3,5-Cycloheptatriene, 3,7,7-tr...	134	C10H14	003479-89-8	95
2	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94
3	Benzene, 1-methyl-2-(1-methyleth...	134	C10H14	000527-84-4	94
4	Benzene, 1-methyl-4-(1-methyleth...	134	C10H14	000099-87-6	91
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	91



Library Search Compound Report
GEL Laboratories, LLC

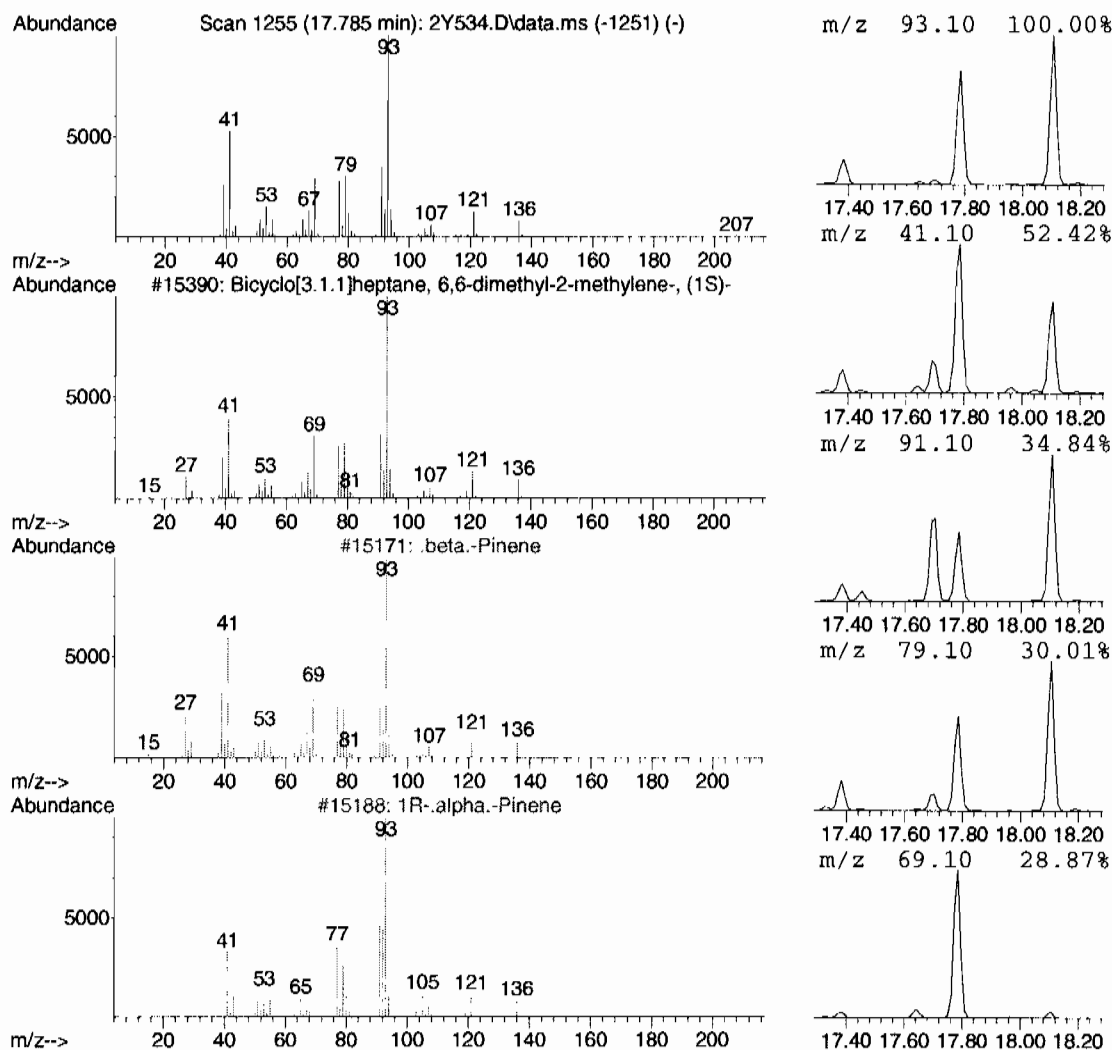
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Data File : 2Y534.D
Acq On : 12 Feb 2010 10:41 pm
Operator : CDS1
Sample : |246434003|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 34 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 5 unknown hydrocarbon Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD			R.T.
17.785	16.27 ug/L	845735	1,4-Dichlorobenzene-d4			18.461
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Bicyclo[3.1.1]heptane, 6,6-dimet...	136	C10H16	018172-67-3	97
2		.beta.-Pinene	136	C10H16	000127-91-3	96
3		1R-.alpha.-Pinene	136	C10H16	007785-70-8	94
4		.beta.-Pinene	136	C10H16	000127-91-3	94
5		.beta.-Pinene	136	C10H16	000127-91-3	91



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y534.D
Acq On : 12 Feb 2010 10:41 pm
Operator : CDS1
Sample : |246434003|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 34 Sample Multiplier: 1

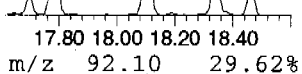
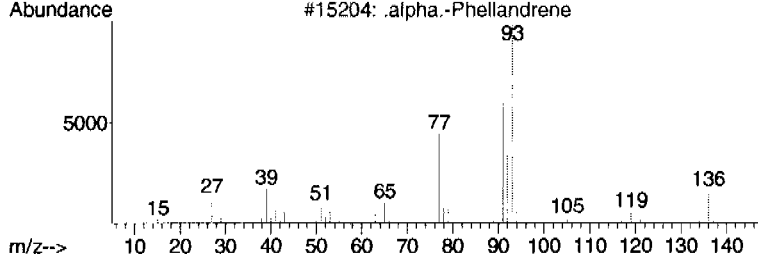
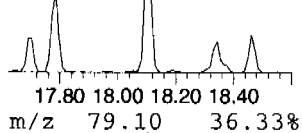
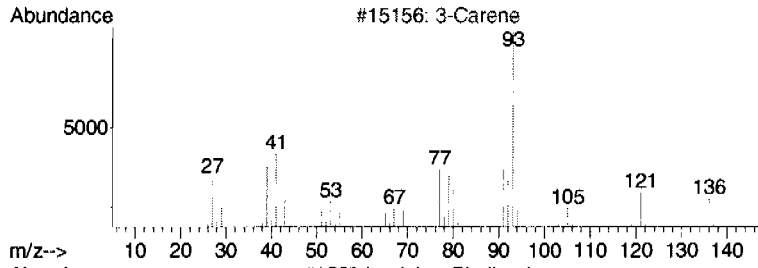
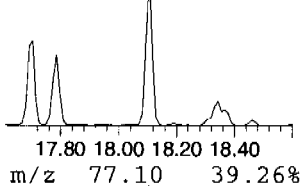
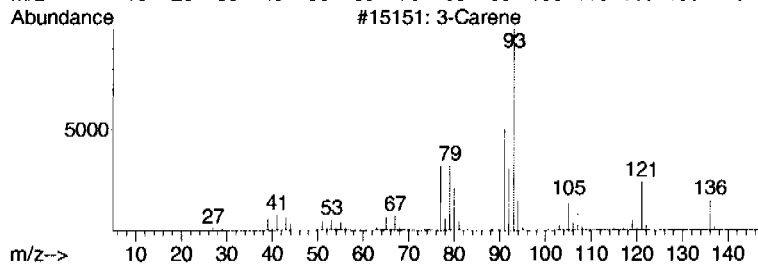
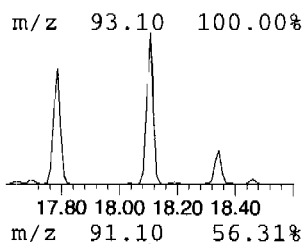
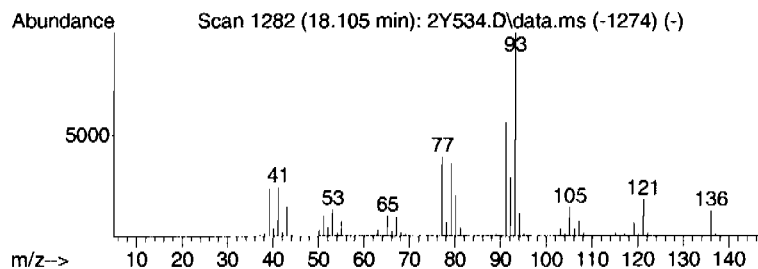
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Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 6 unknown hydrocarbon Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.105	22.02 ug/L	1144840	1,4-Dichlorobenzene-d4	18.461

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Carene	136	C10H16	013466-78-9	97
2	3-Carene	136	C10H16	013466-78-9	94
3	.alpha.-Phellandrene	136	C10H16	000099-83-2	93
4	4-Carene	136	C10H16	1000150-36-1	93
5	1,4-Cyclohexadiene, 1-methyl-4-(...	136	C10H16	000099-85-4	93



Tentatively Identified Compound (LSC) summary
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y534.D
Acq On : 12 Feb 2010 10:41 pm
Operator : CDS1
Sample : |246434003|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 34 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown	4.360	40.9	ug/L	2225870	1	12.437	2724730	50.0
unknown hydroca...	17.061	71.0	ug/L	4007120	4	15.970	2821830	50.0
unknown hydroca...	17.382	5.1	ug/L	266872	5	18.461	2599270	50.0
unknown aromatic	17.702	10.2	ug/L	529453	5	18.461	2599270	50.0
unknown hydroca...	17.785	16.3	ug/L	845735	5	18.461	2599270	50.0
unknown hydroca...	18.105	22.0	ug/L	1144840	5	18.461	2599270	50.0

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434004
 Client ID: RE15-10-8353
 Batch ID: 952586
 Run Date: 02/12/2010 23:10
 Prep Date: 02/12/2010 11:07
 Data File: 021210V2.b\2Y535.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 13
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.15	ug/kg	0.391	1.15
74-87-3	Chloromethane	U	1.15	ug/kg	0.345	1.15
75-01-4	Vinyl chloride	U	1.15	ug/kg	0.345	1.15
74-83-9	Bromomethane	U	1.15	ug/kg	0.345	1.15
75-00-3	Chloroethane	U	1.15	ug/kg	0.345	1.15
75-69-4	Trichlorofluoromethane	U	1.15	ug/kg	0.345	1.15
67-64-1	Acetone	U	5.75	ug/kg	1.91	5.75
75-35-4	1,1-Dichloroethylene	U	1.15	ug/kg	0.345	1.15
74-88-4	Iodomethane	U	5.75	ug/kg	1.84	5.75
75-09-2	Methylene chloride	U	5.75	ug/kg	2.30	5.75
75-15-0	Carbon disulfide	U	5.75	ug/kg	1.44	5.75
156-60-5	trans-1,2-Dichloroethylene	U	1.15	ug/kg	0.345	1.15
75-34-3	1,1-Dichloroethane	U	1.15	ug/kg	0.345	1.15
78-93-3	2-Butanone	U	5.75	ug/kg	1.72	5.75
156-59-2	cis-1,2-Dichloroethylene	U	1.15	ug/kg	0.345	1.15
594-20-7	2,2-Dichloropropane	U	1.15	ug/kg	0.345	1.15
67-66-3	Chloroform	U	1.15	ug/kg	0.345	1.15
74-97-5	Bromochloromethane	U	1.15	ug/kg	0.379	1.15
71-55-6	1,1,1-Trichloroethane	U	1.15	ug/kg	0.345	1.15
563-58-6	1,1-Dichloropropene	U	1.15	ug/kg	0.345	1.15
56-23-5	Carbon tetrachloride	U	1.15	ug/kg	0.345	1.15
107-06-2	1,2-Dichloroethane	U	1.15	ug/kg	0.345	1.15
71-43-2	Benzene	U	1.15	ug/kg	0.345	1.15
79-01-6	Trichloroethylene	U	1.15	ug/kg	0.379	1.15
78-87-5	1,2-Dichloropropane	U	1.15	ug/kg	0.345	1.15
75-27-4	Bromodichloromethane	U	1.15	ug/kg	0.345	1.15
74-95-3	Dibromomethane	U	1.15	ug/kg	0.345	1.15
108-10-1	4-Methyl-2-pentanone	U	5.75	ug/kg	1.44	5.75
10061-01-5	cis-1,3-Dichloropropylene	U	1.15	ug/kg	0.345	1.15
108-88-3	Toluene	U	1.15	ug/kg	0.345	1.15
10061-02-6	trans-1,3-Dichloropropylene	U	1.15	ug/kg	0.345	1.15
79-00-5	1,1,2-Trichloroethane	U	1.15	ug/kg	0.345	1.15
591-78-6	2-Hexanone	U	5.75	ug/kg	1.72	5.75
142-28-9	1,3-Dichloropropane	U	1.15	ug/kg	0.345	1.15
127-18-4	Tetrachloroethylene	U	1.15	ug/kg	0.345	1.15
124-48-1	Dibromochloromethane	U	1.15	ug/kg	0.345	1.15
106-93-4	1,2-Dibromoethane	U	1.15	ug/kg	0.345	1.15
108-90-7	Chlorobenzene	U	1.15	ug/kg	0.345	1.15

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434004
 Client ID: RE15-10-8353
 Batch ID: 952586
 Run Date: 02/12/2010 23:10
 Prep Date: 02/12/2010 11:07
 Data File: 021210V2.b\2Y535.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 13
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.15	ug/kg	0.345	1.15
179601-23-1	m,p-Xylenes	U	2.30	ug/kg	0.345	2.30
95-47-6	o-Xylene	U	1.15	ug/kg	0.345	1.15
100-42-5	Styrene	U	1.15	ug/kg	0.345	1.15
75-25-2	Bromoform	U	1.15	ug/kg	0.345	1.15
79-34-5	1,1,2,2-Tetrachloroethane	U	1.15	ug/kg	0.345	1.15
96-18-4	1,2,3-Trichloropropane	U	1.15	ug/kg	0.345	1.15
108-86-1	Bromobenzene	U	1.15	ug/kg	0.345	1.15
103-65-1	n-Propylbenzene	U	1.15	ug/kg	0.345	1.15
95-49-8	2-Chlorotoluene	U	1.15	ug/kg	0.345	1.15
98-82-8	Isopropylbenzene	U	1.15	ug/kg	0.345	1.15
108-67-8	1,3,5-Trimethylbenzene	U	1.15	ug/kg	0.345	1.15
106-43-4	4-Chlorotoluene	U	1.15	ug/kg	0.345	1.15
98-06-6	tert-Butylbenzene	U	1.15	ug/kg	0.345	1.15
95-63-6	1,2,4-Trimethylbenzene	U	1.15	ug/kg	0.345	1.15
135-98-8	sec-Butylbenzene	U	1.15	ug/kg	0.345	1.15
99-87-6	4-Isopropyltoluene	U	1.15	ug/kg	0.345	1.15
541-73-1	1,3-Dichlorobenzene	U	1.15	ug/kg	0.345	1.15
106-46-7	1,4-Dichlorobenzene	U	1.15	ug/kg	0.345	1.15
104-51-8	n-Butylbenzene	U	1.15	ug/kg	0.345	1.15
96-12-8	1,2-Dibromo-3-chloropropane	U	1.15	ug/kg	0.345	1.15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.75	ug/kg	1.84	5.75
630-20-6	1,1,1,2-Tetrachloroethane	U	1.15	ug/kg	0.345	1.15
95-50-1	1,2-Dichlorobenzene	U	1.15	ug/kg	0.345	1.15

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	30.5	ug/kg	0	J
	unknown siloxane	19.15	14.7	ug/kg	0	J

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y535.D
Acq On : 12 Feb 2010 11:10 pm
Operator : CDS1
InstName : VOA2
Sample : |246434004|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Feb 15 07:42:25 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev(Min)
1) Fluorobenzene	12.425	12.437	1.000	96	1158251	50.00	ug/L	-0.01
41) Chlorobenzene-d5	15.970	15.970	1.000	117	873562	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	509127	50.00	ug/L	0.00
82) B Fluorobenzene	12.425	12.437	1.000	96	1158190	50.00	ug/L	-0.01
103) B Chlorobenzene-d5	15.970	15.971	1.000	117	873829	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	509364	50.00	ug/L	0.00
System Monitoring Compounds								Dev(Min)
29) 1,2-Dichloroethane-d4	11.974	11.986	0.964	65	565019	51.92	ug/L	-0.01
Spiked Amount	50.000	Range	66 - 134	Recovery	= 103.84%			
43) Toluene-d8	14.346	14.346	0.898	98	1136421	48.66	ug/L	0.00
Spiked Amount	50.000	Range	71 - 128	Recovery	= 97.32%			
61) Bromofluorobenzene	17.227	17.227	0.933	95	552993	50.61	ug/L	0.00
Spiked Amount	50.000	Range	65 - 130	Recovery	= 101.22%			
Target Compounds	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	QValue
2) Dichlorodifluoromethane	0.000	4.702	0.000		0	N.D.		
3) Chloromethane	4.999	4.999	0.402	50	154	N.D.		
4) Vinyl chloride	5.251	5.266	0.423	62	732	N.D.		
5) Bromomethane	0.000	5.980	0.000		0	N.D.		
6) Chloroethane	0.000	6.223	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000	6.839	0.000		0	N.D.		
8) Ethyl ether	0.000	7.409	0.000		0	N.D.		
9) Acetone	8.001	7.930	0.644	43	1794	N.D.		
10) 1,1-Dichloroethylene	0.000	7.883	0.000		0	N.D.		
11) Iodomethane	0.000	8.167	0.000		0	N.D.		
12) Acetonitrile	0.000	8.452	0.000		0	N.D.		
13) Methyl acetate	0.000	8.571	0.000		0	N.D.		
14) Carbon disulfide	8.310	8.322	0.669	76	812	N.D.		
15) Methylene chloride	8.760	8.772	0.705	84	8300	N.D.		
16) tert-Butyl methyl ether	0.000	9.282	0.000		0	N.D.		
17) trans-1,2-Dichloroethy...	0.000	9.270	0.000		0	N.D.		
18) Vinyl acetate	0.000	10.017	0.000		0	N.D.		
19) 1,1-Dichloroethane	0.000	9.958	0.000		0	N.D.		
20) 2-Butanone	0.000	10.836	0.000		0	N.D.		
21) cis-1,2-Dichloroethylene	0.000	10.848	0.000		0	N.D.		
22) 2,2-Dichloropropane	0.000	10.871	0.000		0	N.D.		
23) Bromochloromethane	0.000	11.203	0.000		0	N.D.		
24) Chloroform	11.298	11.298	0.909	83	121	N.D.		
25) 1,1,1-Trichloroethane	0.000	11.606	0.000		0	N.D.		
26) Cyclohexane	0.000	11.713	0.000		0	N.D.		
27) 1,1-Dichloropropene	0.000	11.820	0.000		0	N.D.		
28) Carbon tetrachloride	0.000	11.844	0.000		0	N.D.		
30) 1,2-Dichloroethane	0.000	12.093	0.000		0	N.D.		
31) Benzene	0.000	12.093	0.000		0	N.D.		
32) Cyclohexene	0.000	12.247	0.000		0	N.D.		
33) n-Butyl alcohol	0.000	12.697	0.000		0	N.D.		
34) Trichloroethylene	12.911	12.899	1.039	95	117	N.D.		
35) 1,2-Dichloropropane	0.000	13.172	0.000		0	N.D.		
36) Methylcyclohexane	0.000	13.184	0.000		0	N.D.		
37) Dibromomethane	0.000	13.314	0.000		0	N.D.		

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y535.D
Acq On : 12 Feb 2010 11:10 pm
Operator : CDS1
InstName : VOA2
Sample : |246434004|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Feb 15 07:42:25 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
38) Bromodichloromethane	0.000	13.480	0.000		0	N.D.	
39) 2-Chloroethylvinyl ether	0.000	13.800	0.000		0	N.D.	
40) cis-1,3-Dichloropropylene	0.000	14.002	0.000		0	N.D.	
42) 4-Methyl-2-pentanone	0.000	14.144	0.000		0	N.D.	
44) Toluene	14.417	14.429	0.903	91	423	N.D.	
45) trans-1,3-Dichloroprop...	0.000	14.618	0.000		0	N.D.	
46) 1,1,2-Trichloroethane	0.000	14.844	0.000		0	N.D.	
47) 2-Hexanone	15.081	15.069	0.944	43	457	N.D.	
48) 1,3-Dichloropropane	0.000	15.045	0.000		0	N.D.	
49) Tetrachloroethylene	0.000	15.069	0.000		0	N.D.	
50) Dibromochloromethane	0.000	15.318	0.000		0	N.D.	
51) 1,2-Dibromoethane	0.000	15.472	0.000		0	N.D.	
52) Chlorobenzene	16.006	16.006	1.002	112	308	N.D.	
53) 1,1,1,2-Tetrachloroethane	0.000	16.077	0.000		0	N.D.	
54) Ethylbenzene	16.089	16.101	1.007	91	3304	N.D.	
55) m,p-Xylenes	16.208	16.219	1.015	106	379	N.D.	
56) o-Xylene	0.000	16.658	0.000		0	N.D.	
57) Styrene	16.658	16.658	1.043	104	506	N.D.	
59) Bromoform	0.000	16.895	0.000		0	N.D.	
60) Isopropylbenzene	17.049	17.038	0.924	105	1019	N.D.	
62) 1,1,2,2-Tetrachloroethane	0.000	17.310	0.000		0	N.D.	
63) 1,2,3-Trichloropropane	0.000	17.393	0.000		0	N.D.	
64) Bromobenzene	0.000	17.429	0.000		0	N.D.	
65) n-Propylbenzene	0.000	17.476	0.000		0	N.D.	
66) 1,3,5-Trimethylbenzene	17.702	17.642	0.959	105	117	N.D.	
67) 2-Chlorotoluene	0.000	17.607	0.000		0	N.D.	
68) 4-Chlorotoluene	17.714	17.714	0.960	91	1799	N.D.	
69) tert-Butylbenzene	0.000	18.010	0.000		0	N.D.	
70) 1,2,4-Trimethylbenzene	0.000	18.057	0.000		0	N.D.	
71) sec-Butylbenzene	18.200	18.235	0.986	105	524	N.D.	
72) 4-Isopropyltoluene	18.378	18.366	0.996	119	2167	N.D.	
73) 1,3-Dichlorobenzene	18.401	18.401	0.997	146	428	N.D.	
74) 1,4-Dichlorobenzene	18.484	18.496	1.001	146	869	N.D.	
75) n-Butylbenzene	18.805	18.805	1.019	91	2573	N.D.	
76) 1,2-Dichlorobenzene	18.899	18.899	1.024	146	359	N.D.	
77) 1,2-Dibromo-3-chloropr...	0.000	19.718	0.000		0	N.D.	
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	475	N.D.	
79) Hexachlorobutadiene	0.000	20.868	0.000		0	N.D.	
80) Naphthalene	21.022	21.022	1.139	128	1292	N.D.	
81) 1,2,3-Trichlorobenzene	21.354	21.342	1.157	180	352	N.D.	
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.	
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.	
85) Acrolein	0.000	7.646	0.000		0	N.D.	
86) Trichlorotrifluoroethane	0.000	7.930	0.000		0	N.D.	
87) Isopropyl Alcohol	8.073	8.191	0.650	45	134	N.D.	
88) Allyl chloride	0.000	8.559	0.000		0	N.D.	
89) tert-Butyl Alcohol	0.000	8.938	0.000		0	N.D.	
90) Acrylonitrile	0.000	9.164	0.000		0	N.D.	
91) Isopropyl ether	0.000	10.077	0.000		0	N.D.	
92) 2-Chloro-1,3-butadiene	0.000	10.124	0.000		0	N.D.	
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.	
94) Ethyl acetate	0.000	10.919	0.000		0	N.D.	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y535.D
Acq On : 12 Feb 2010 11:10 pm
Operator : CDS1
InstName : VOA2
Sample : |246434004|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Feb 15 07:42:25 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

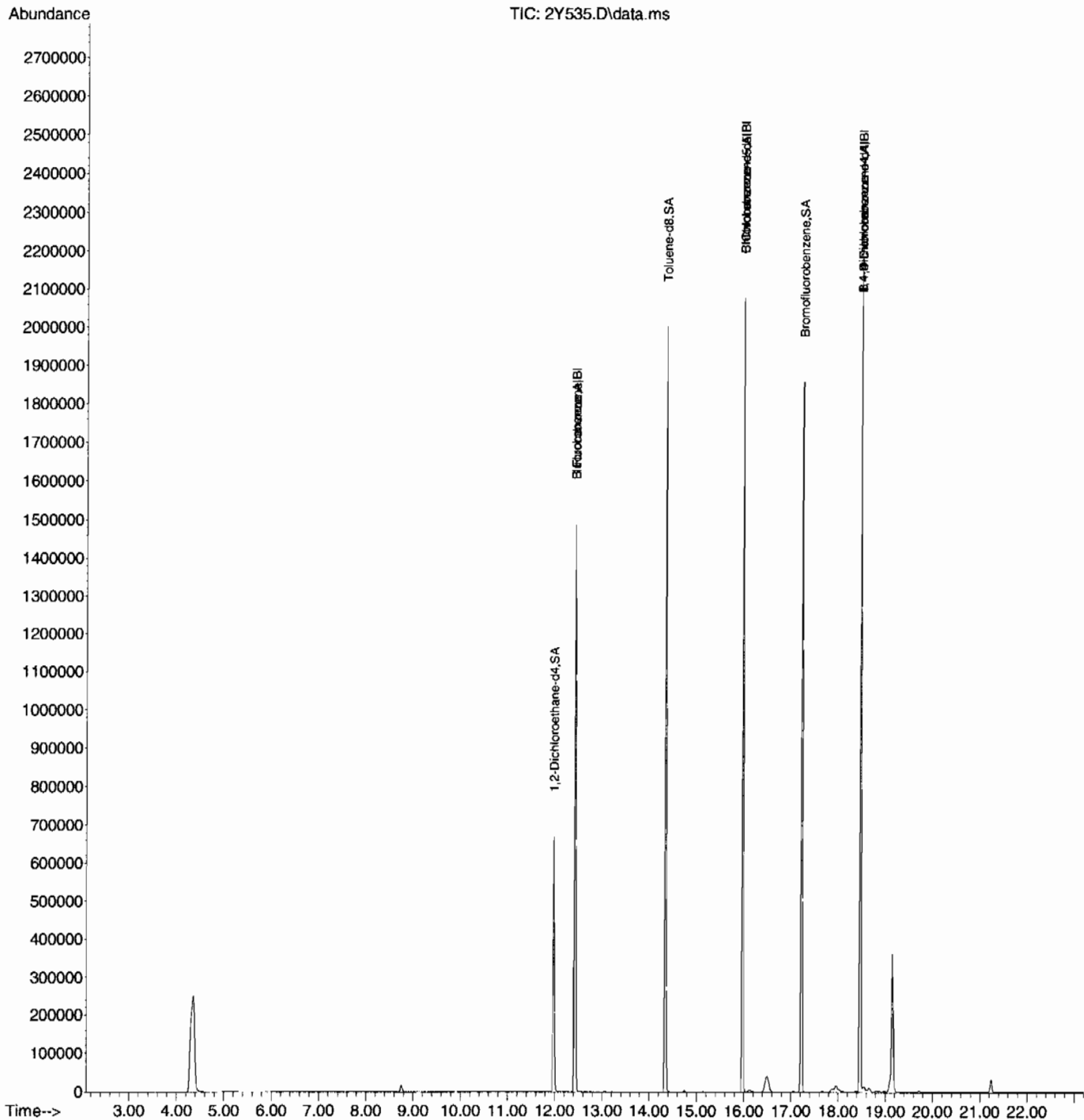
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	0.000	10.907	0.000		0	N.D.	
96) Methacrylonitrile	0.000	11.144	0.000		0	N.D.	
97) Tetrahydrofuran	11.286	11.275	0.908	42	366	N.D.	
98) Isobutyl alcohol	0.000	11.856	0.000		0	N.D.	
99) Methyl tert-amyl ether	0.000	12.211	0.000		0	N.D.	
100) Methyl methacrylate	0.000	13.243	0.000		0	N.D.	
101) 1,4-Dioxane	0.000	13.314	0.000		0	N.D.	
102) 2-Nitropropane	0.000	13.729	0.000		0	N.D.	
104) Ethyl methacrylate	0.000	14.678	0.000		0	N.D.	
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	17.061	17.073	0.924	53	374	N.D.	
108) Cyclohexanone	0.000	17.156	0.000		0	N.D.	
109) trans-1,4-Dichloro-2-b...	17.370	17.370	0.941	53	116	N.D.	
110) Pentachloroethane	0.000	18.058	0.000		0	N.D.	
111) Benzyl chloride	18.461	18.603	1.000	91	1918	N.D.	
112) bis(2-Chloroisopropyl)...	0.000	19.018	0.000		0m	N.D.	d

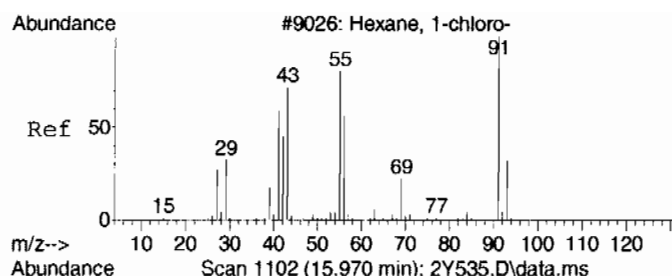
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y535.D
Acq On : 12 Feb 2010 11:10 pm
Operator : CDS1
InstName : VOA2
Sample : |246434004|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 35 Sample Multiplier: 1

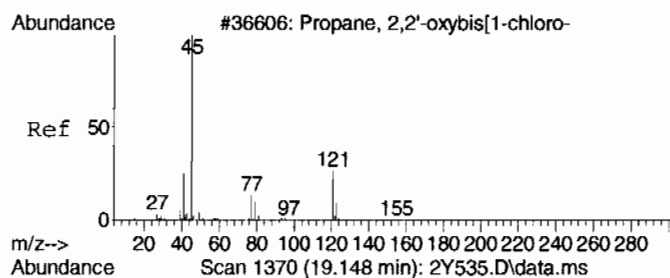
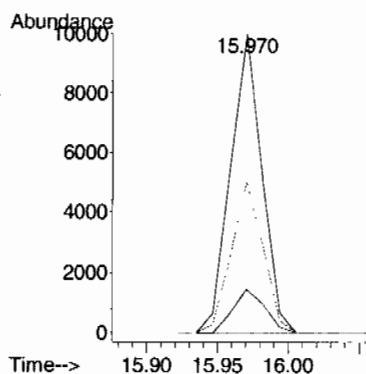
Quant Time: Feb 15 07:42:25 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE





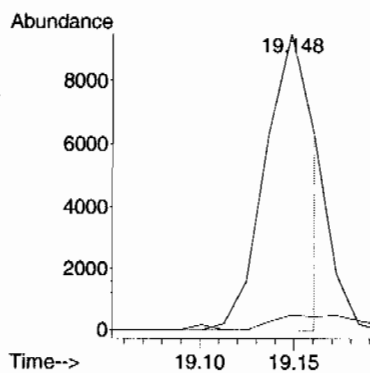
#106 BEFORE analyst DELETION
1-Chlorohexane
Concen: 2.14 ug/L
RT: 15.970 min Scan# 1102
Delta R.T. 0.059 min
Lab File: 2Y535.D
Acq: 12 Feb 2010 11:10 pm

Tgt Ion	Ratio	Lower	Upper
55	100		
91	15.1	66.2	126.2#
56	51.2	26.7	86.7



#112 BEFORE analyst DELETION
bis(2-Chloroisopropyl)ether
Concen: 4.15 ug/L
RT: 19.148 min Scan# 1370
Delta R.T. 0.130 min
Lab File: 2Y535.D
Acq: 12 Feb 2010 11:10 pm

Tgt Ion	Ratio	Lower	Upper
45	100		
121	0.7	0.0	50.1



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y535.D
Acq On : 12 Feb 2010 11:10 pm
Operator : CDS1
Sample : |246434004|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 35 Sample Multiplier: 1

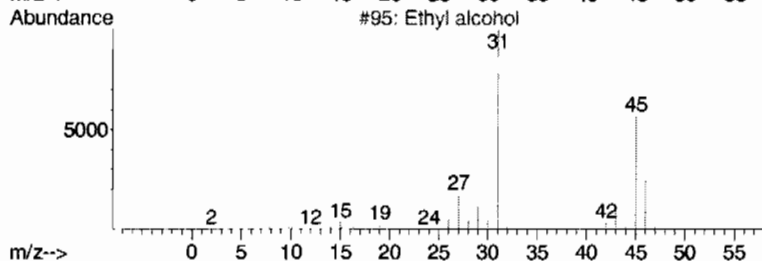
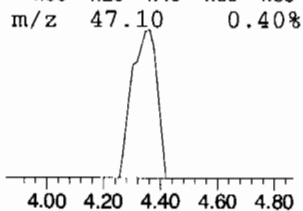
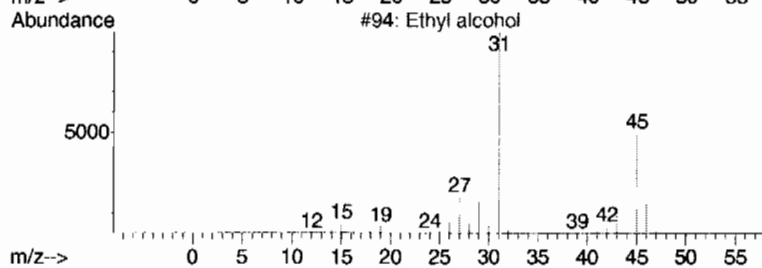
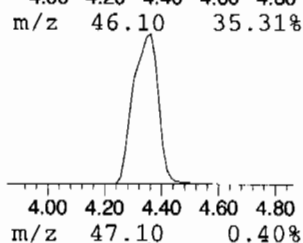
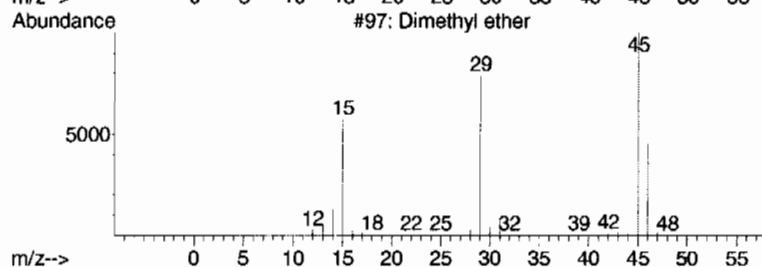
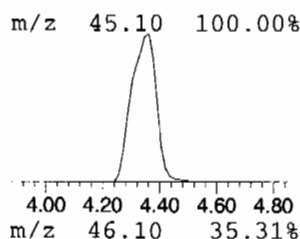
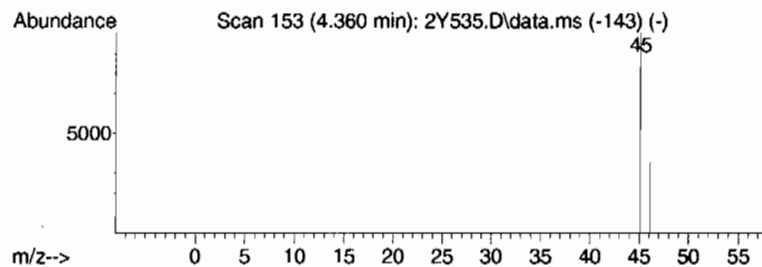
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.360	26.54 ug/L	1534400	Fluorobenzene	12.425

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dimethyl ether	46	C2H6O	000115-10-6	5
2	Ethyl alcohol	46	C2H6O	000064-17-5	4
3	Ethyl alcohol	46	C2H6O	000064-17-5	4
4	Ethyl alcohol	46	C2H6O	000064-17-5	4
5	Formic acid	46	CH2O2	000064-18-6	3



Library Search Compound Report
GEL Laboratories, LLC

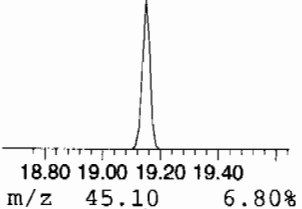
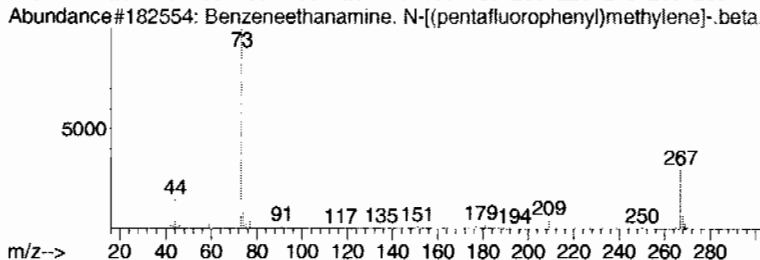
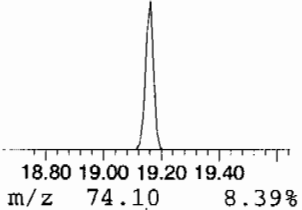
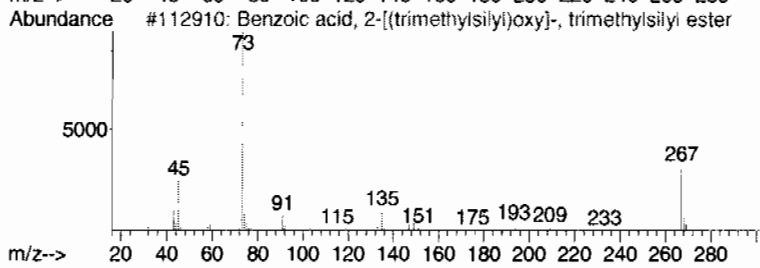
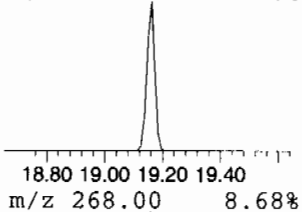
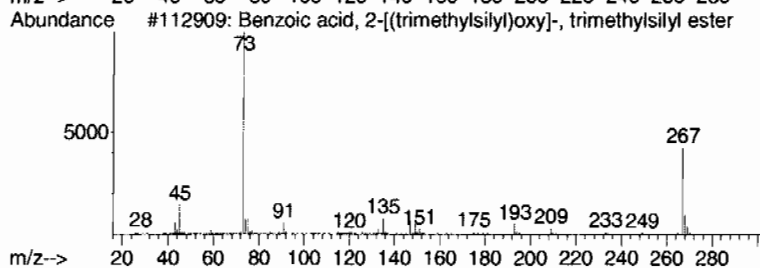
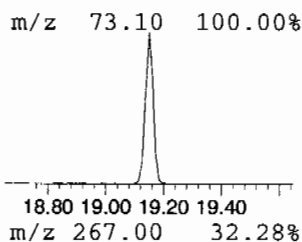
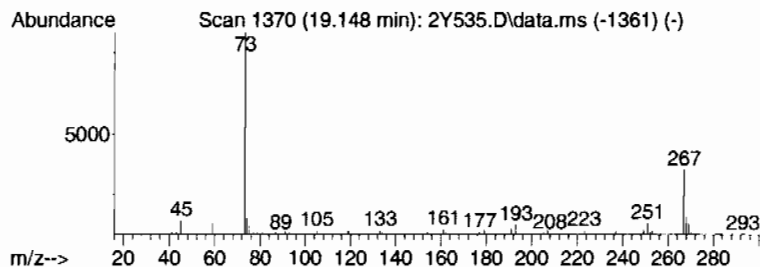
Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y535.D
Acq On : 12 Feb 2010 11:10 pm
Operator : CDS1
Sample : |246434004|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 35 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 2 unknown siloxane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD			R.T.
19.148	12.82 ug/L	927815	B 1,4-Dichlorobenzene-d4			18.461
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzoic acid, 2-[(trimethylsilyl)oxy]-, trimethylsilyl ester	282	C13H22O3Si2	003789-85-3	45
2		Benzoic acid, 2-[(trimethylsilyl)oxy]-, trimethylsilyl ester	282	C13H22O3Si2	003789-85-3	45
3		Benzenethanamine, N-[(pentafluorophenyl)methylene]-, beta-, trimethylsilyl ester	475	C21H26F5NO2Si2	055429-85-1	40
4		Benzoic acid, 2-[(trimethylsilyl)oxy]-, trimethylsilyl ester	282	C13H22O3Si2	003789-85-3	36
5		Silane, (2-ethyl-3,3-dimethyl-4-oxocyclopent-1-en-1-yl)dimethyl-	208	C13H24Si	095798-13-3	10



Tentatively Identified Compound (LSC) summary
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y535.D
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Operator : CDS1
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Misc : LANL 5G - SOIL
ALS Vial : 35 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown	4.360	26.5	ug/L	1534400	1	12.425	2890220	50.0
unknown siloxane	19.148	12.8	ug/L	927815	6	18.461	3617820	50.0

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434005
 Client ID: RE15-10-8352
 Batch ID: 952586
 Run Date: 02/12/2010 23:39
 Prep Date: 02/12/2010 11:08
 Data File: 021210V2.b\2Y536.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.1
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 23
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.30	ug/kg	0.442	1.30
74-87-3	Chloromethane	U	1.30	ug/kg	0.390	1.30
75-01-4	Vinyl chloride	U	1.30	ug/kg	0.390	1.30
74-83-9	Bromomethane	U	1.30	ug/kg	0.390	1.30
75-00-3	Chloroethane	U	1.30	ug/kg	0.390	1.30
75-69-4	Trichlorofluoromethane	U	1.30	ug/kg	0.390	1.30
67-64-1	Acetone	U	6.50	ug/kg	2.16	6.50
75-35-4	1,1-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
74-88-4	Iodomethane	U	6.50	ug/kg	2.08	6.50
75-09-2	Methylene chloride	U	6.50	ug/kg	2.60	6.50
75-15-0	Carbon disulfide	U	6.50	ug/kg	1.62	6.50
156-60-5	trans-1,2-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
75-34-3	1,1-Dichloroethane	U	1.30	ug/kg	0.390	1.30
78-93-3	2-Butanone	U	6.50	ug/kg	1.95	6.50
156-59-2	cis-1,2-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
594-20-7	2,2-Dichloropropane	U	1.30	ug/kg	0.390	1.30
67-66-3	Chloroform	U	1.30	ug/kg	0.390	1.30
74-97-5	Bromochloromethane	U	1.30	ug/kg	0.429	1.30
71-55-6	1,1,1-Trichloroethane	U	1.30	ug/kg	0.390	1.30
563-58-6	1,1-Dichloropropene	U	1.30	ug/kg	0.390	1.30
56-23-5	Carbon tetrachloride	U	1.30	ug/kg	0.390	1.30
107-06-2	1,2-Dichloroethane	U	1.30	ug/kg	0.390	1.30
71-43-2	Benzene	U	1.30	ug/kg	0.390	1.30
79-01-6	Trichloroethylene	U	1.30	ug/kg	0.429	1.30
78-87-5	1,2-Dichloropropane	U	1.30	ug/kg	0.390	1.30
75-27-4	Bromodichloromethane	U	1.30	ug/kg	0.390	1.30
74-95-3	Dibromomethane	U	1.30	ug/kg	0.390	1.30
108-10-1	4-Methyl-2-pentanone	U	6.50	ug/kg	1.62	6.50
10061-01-5	cis-1,3-Dichloropropylene	U	1.30	ug/kg	0.390	1.30
108-88-3	Toluene	U	1.30	ug/kg	0.390	1.30
10061-02-6	trans-1,3-Dichloropropylene	U	1.30	ug/kg	0.390	1.30
79-00-5	1,1,2-Trichloroethane	U	1.30	ug/kg	0.390	1.30
591-78-6	2-Hexanone	U	6.50	ug/kg	1.95	6.50
142-28-9	1,3-Dichloropropane	U	1.30	ug/kg	0.390	1.30
127-18-4	Tetrachloroethylene	U	1.30	ug/kg	0.390	1.30
124-48-1	Dibromochloromethane	U	1.30	ug/kg	0.390	1.30
106-93-4	1,2-Dibromoethane	U	1.30	ug/kg	0.390	1.30
108-90-7	Chlorobenzene	U	1.30	ug/kg	0.390	1.30

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434005
 Client ID: RE15-10-8352
 Batch ID: 952586
 Run Date: 02/12/2010 23:39
 Prep Date: 02/12/2010 11:08
 Data File: 021210V2.b\2Y536.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.1
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 23
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.30	ug/kg	0.390	1.30
179601-23-1	m,p-Xylenes	U	2.60	ug/kg	0.390	2.60
95-47-6	o-Xylene	U	1.30	ug/kg	0.390	1.30
100-42-5	Styrene	U	1.30	ug/kg	0.390	1.30
75-25-2	Bromoform	U	1.30	ug/kg	0.390	1.30
79-34-5	1,1,2,2-Tetrachloroethane	U	1.30	ug/kg	0.390	1.30
96-18-4	1,2,3-Trichloropropane	U	1.30	ug/kg	0.390	1.30
108-86-1	Bromobenzene	U	1.30	ug/kg	0.390	1.30
103-65-1	n-Propylbenzene	U	1.30	ug/kg	0.390	1.30
95-49-8	2-Chlorotoluene	U	1.30	ug/kg	0.390	1.30
98-82-8	Isopropylbenzene	U	1.30	ug/kg	0.390	1.30
108-67-8	1,3,5-Trimethylbenzene	U	1.30	ug/kg	0.390	1.30
106-43-4	4-Chlorotoluene	U	1.30	ug/kg	0.390	1.30
98-06-6	tert-Butylbenzene	U	1.30	ug/kg	0.390	1.30
95-63-6	1,2,4-Trimethylbenzene	U	1.30	ug/kg	0.390	1.30
135-98-8	sec-Butylbenzene	U	1.30	ug/kg	0.390	1.30
99-87-6	4-Isopropyltoluene	U	1.30	ug/kg	0.390	1.30
541-73-1	1,3-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30
106-46-7	1,4-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30
104-51-8	n-Butylbenzene	U	1.30	ug/kg	0.390	1.30
96-12-8	1,2-Dibromo-3-chloropropane	U	1.30	ug/kg	0.390	1.30
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.50	ug/kg	2.08	6.50
630-20-6	1,1,1,2-Tetrachloroethane	U	1.30	ug/kg	0.390	1.30
95-50-1	1,2-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.35	24	ug/kg	0	J

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y536.D
Acq On : 12 Feb 2010 11:39 pm
Operator : CDS1
InstName : VOA2
Sample : |246434005|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Feb 15 07:42:47 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev(Min)
1) Fluorobenzene	12.425	12.437	1.000	96	1167316	50.00	ug/L	-0.01
41) Chlorobenzene-d5	15.971	15.970	1.000	117	869308	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	483702	50.00	ug/L	0.00
82) B Fluorobenzene	12.425	12.437	1.000	96	1167055	50.00	ug/L	-0.01
103) B Chlorobenzene-d5	15.971	15.971	1.000	117	869419	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	483820	50.00	ug/L	0.00
System Monitoring Compounds								Dev(Min)
29) 1,2-Dichloroethane-d4	11.974	11.986	0.964	65	559567	51.02	ug/L	-0.01
Spiked Amount	50.000	Range	66 - 134	Recovery	= 102.04%			
43) Toluene-d8	14.346	14.346	0.898	98	1144938	49.26	ug/L	0.00
Spiked Amount	50.000	Range	71 - 128	Recovery	= 98.52%			
61) Bromofluorobenzene	17.216	17.227	0.933	95	531355	51.19	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 130	Recovery	= 102.38%			
Target Compounds	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	QValue
2) Dichlorodifluoromethane	0.000	4.702	0.000		0	N.D.		
3) Chloromethane	4.984	4.999	0.401	50	135	N.D.		
4) Vinyl chloride	5.252	5.266	0.423	62	698	N.D.		
5) Bromomethane	0.000	5.980	0.000		0	N.D.		
6) Chloroethane	0.000	6.223	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000	6.839	0.000		0	N.D.		
8) Ethyl ether	0.000	7.409	0.000		0	N.D.		
9) Acetone	8.014	7.930	0.645	43	1451	N.D.		
10) 1,1-Dichloroethylene	7.883	7.883	0.634	61	593	N.D.		
11) Iodomethane	0.000	8.167	0.000		0	N.D.		
12) Acetonitrile	0.000	8.452	0.000		0	N.D.		
13) Methyl acetate	0.000	8.571	0.000		0	N.D.		
14) Carbon disulfide	8.298	8.322	0.668	76	790	N.D.		
15) Methylene chloride	8.761	8.772	0.705	84	7134	N.D.		
16) tert-Butyl methyl ether	0.000	9.282	0.000		0	N.D.		
17) trans-1,2-Dichloroethy...	0.000	9.270	0.000		0	N.D.		
18) Vinyl acetate	0.000	10.017	0.000		0	N.D.		
19) 1,1-Dichloroethane	0.000	9.958	0.000		0	N.D.		
20) 2-Butanone	0.000	10.836	0.000		0	N.D.		
21) cis-1,2-Dichloroethylene	0.000	10.848	0.000		0	N.D.		
22) 2,2-Dichloropropane	0.000	10.871	0.000		0	N.D.		
23) Bromochloromethane	0.000	11.203	0.000		0	N.D.		
24) Chloroform	11.286	11.298	0.908	83	149	N.D.		
25) 1,1,1-Trichloroethane	0.000	11.606	0.000		0	N.D.		
26) Cyclohexane	11.701	11.713	0.942	56	137	N.D.		
27) 1,1-Dichloropropene	0.000	11.820	0.000		0	N.D.		
28) Carbon tetrachloride	0.000	11.844	0.000		0	N.D.		
30) 1,2-Dichloroethane	0.000	12.093	0.000		0	N.D.		
31) Benzene	12.093	12.093	0.973	78	291	N.D.		
32) Cyclohexene	0.000	12.247	0.000		0	N.D.		
33) n-Butyl alcohol	0.000	12.697	0.000		0	N.D.		
34) Trichloroethylene	0.000	12.899	0.000		0	N.D.		
35) 1,2-Dichloropropane	0.000	13.172	0.000		0	N.D.		
36) Methylcyclohexane	0.000	13.184	0.000		0	N.D.		
37) Dibromomethane	0.000	13.314	0.000		0	N.D.		

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y536.D
Acq On : 12 Feb 2010 11:39 pm
Operator : CDS1
InstName : VOA2
Sample : |246434005|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Feb 15 07:42:47 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
38) Bromodichloromethane	0.000	13.480	0.000		0	N.D.	
39) 2-Chloroethylvinyl ether	0.000	13.800	0.000		0	N.D.	
40) cis-1,3-Dichloropropylene	0.000	14.002	0.000		0	N.D.	
42) 4-Methyl-2-pentanone	0.000	14.144	0.000		0	N.D.	
44) Toluene	14.417	14.429	0.903	91	1440	N.D.	
45) trans-1,3-Dichloroprop...	0.000	14.618	0.000		0	N.D.	
46) 1,1,2-Trichloroethane	0.000	14.844	0.000		0	N.D.	
47) 2-Hexanone	0.000	15.069	0.000		0	N.D.	
48) 1,3-Dichloropropane	0.000	15.045	0.000		0	N.D.	
49) Tetrachloroethylene	0.000	15.069	0.000		0	N.D.	
50) Dibromochloromethane	0.000	15.318	0.000		0	N.D.	
51) 1,2-Dibromoethane	0.000	15.472	0.000		0	N.D.	
52) Chlorobenzene	16.006	16.006	1.002	112	170	N.D.	
53) 1,1,1,2-Tetrachloroethane	0.000	16.077	0.000		0	N.D.	
54) Ethylbenzene	16.220	16.101	1.016	91	993	N.D.	
55) m,p-Xylenes	16.220	16.219	1.016	106	245	N.D.	
56) o-Xylene	0.000	16.658	0.000		0	N.D.	
57) Styrene	16.658	16.658	1.043	104	255	N.D.	
59) Bromoform	0.000	16.895	0.000		0	N.D.	
60) Isopropylbenzene	17.050	17.038	0.924	105	359	N.D.	
62) 1,1,2,2-Tetrachloroethane	0.000	17.310	0.000		0	N.D.	
63) 1,2,3-Trichloropropane	0.000	17.393	0.000		0	N.D.	
64) Bromobenzene	0.000	17.429	0.000		0	N.D.	
65) n-Propylbenzene	17.477	17.476	0.947	91	582	N.D.	
66) 1,3,5-Trimethylbenzene	17.643	17.642	0.956	105	127	N.D.	
67) 2-Chlorotoluene	0.000	17.607	0.000		0	N.D.	
68) 4-Chlorotoluene	17.714	17.714	0.960	91	782	N.D.	
69) tert-Butylbenzene	0.000	18.010	0.000		0	N.D.	
70) 1,2,4-Trimethylbenzene	18.046	18.057	0.978	105	282	N.D.	
71) sec-Butylbenzene	0.000	18.235	0.000		0	N.D.	
72) 4-Isopropyltoluene	18.366	18.366	0.995	119	563	N.D.	
73) 1,3-Dichlorobenzene	18.402	18.401	0.997	146	496	N.D.	
74) 1,4-Dichlorobenzene	18.496	18.496	1.002	146	736	N.D.	
75) n-Butylbenzene	18.805	18.805	1.019	91	239	N.D.	
76) 1,2-Dichlorobenzene	18.900	18.899	1.024	146	308	N.D.	
77) 1,2-Dibromo-3-chloropr...	0.000	19.718	0.000		0	N.D.	
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	322	N.D.	
79) Hexachlorobutadiene	0.000	20.868	0.000		0	N.D.	
80) Naphthalene	21.022	21.022	1.139	128	1165	N.D.	
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156	180	135	N.D.	
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.	
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.	
85) Acrolein	0.000	7.646	0.000		0	N.D.	
86) Trichlorotrifluoroethane	0.000	7.930	0.000		0	N.D.	
87) Isopropyl Alcohol	8.073	8.191	0.650	45	420	N.D.	
88) Allyl chloride	0.000	8.559	0.000		0	N.D.	
89) tert-Butyl Alcohol	8.950	8.938	0.720	59	149	N.D.	
90) Acrylonitrile	0.000	9.164	0.000		0	N.D.	
91) Isopropyl ether	0.000	10.077	0.000		0	N.D.	
92) 2-Chloro-1,3-butadiene	0.000	10.124	0.000		0	N.D.	
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.	
94) Ethyl acetate	0.000	10.919	0.000		0	N.D.	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y536.D
Acq On : 12 Feb 2010 11:39 pm
Operator : CDS1
InstName : VOA2
Sample : |246434005|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Feb 15 07:42:47 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

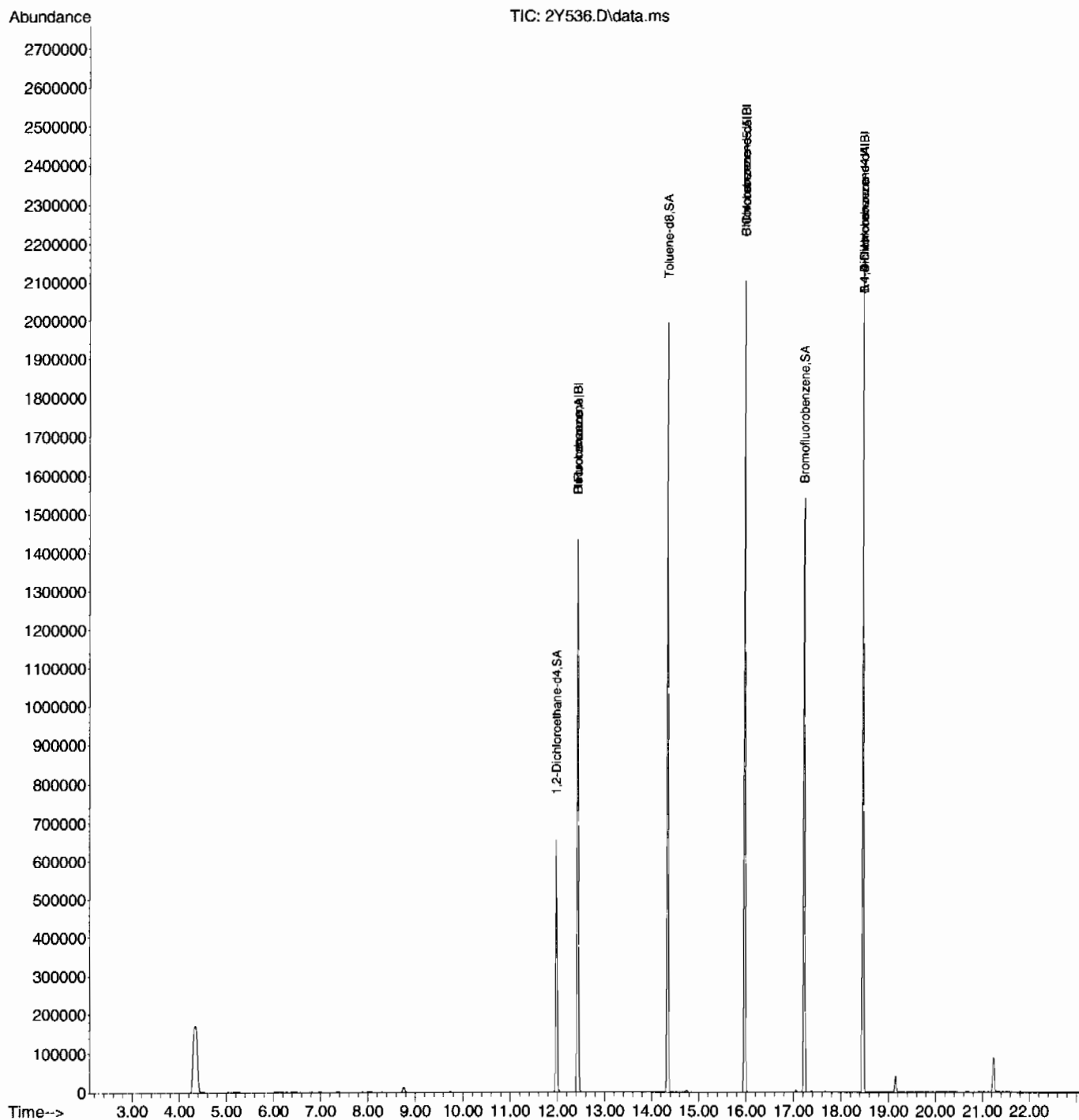
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	0.000	10.907	0.000		0	N.D.	
96) Methacrylonitrile	0.000	11.144	0.000		0	N.D.	
97) Tetrahydrofuran	11.286	11.275	0.908	42	393	N.D.	
98) Isobutyl alcohol	11.974	11.856	0.964	41	135	N.D.	
99) Methyl tert-amyl ether	0.000	12.211	0.000		0	N.D.	
100) Methyl methacrylate	0.000	13.243	0.000		0	N.D.	
101) 1,4-Dioxane	0.000	13.314	0.000		0	N.D.	
102) 2-Nitropropane	0.000	13.729	0.000		0	N.D.	
104) Ethyl methacrylate	0.000	14.678	0.000		0	N.D.	
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	17.050	17.073	0.924	53	297	N.D.	
108) Cyclohexanone	0.000	17.156	0.000		0	N.D.	
109) trans-1,4-Dichloro-2-b...	17.370	17.370	0.941	53	107	N.D.	
110) Pentachloroethane	0.000	18.058	0.000		0	N.D.	
111) Benzyl chloride	18.603	18.603	1.008	91	263	N.D.	
112) bis(2-Chloroisopropyl)...	19.149	19.018	1.037	45	2343	N.D.	

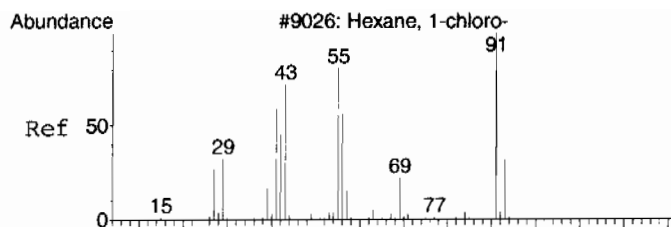
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y536.D
Acq On : 12 Feb 2010 11:39 pm
Operator : CDS1
InstName : VOA2
Sample : |246434005|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 36 Sample Multiplier: 1

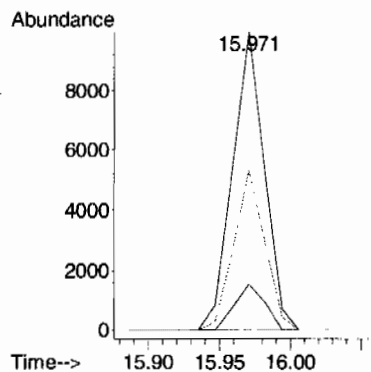
Quant Time: Feb 15 07:42:47 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE





#106 BEFORE analyst DELETION
1-Chlorohexane
Concen: 2.29 ug/L
RT: 15.971 min Scan# 1102
Delta R.T. 0.060 min
Lab File: 2Y536.D
Acq: 12 Feb 2010 11:39 pm

Tgt Ion: 55 Resp: 15561
Ion Ratio Lower Upper
55 100
91 14.7 66.2 126.2#
56 52.4 26.7 86.7



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y536.D
Acq On : 12 Feb 2010 11:39 pm
Operator : CDS1
Sample : |246434005|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 36 Sample Multiplier: 1

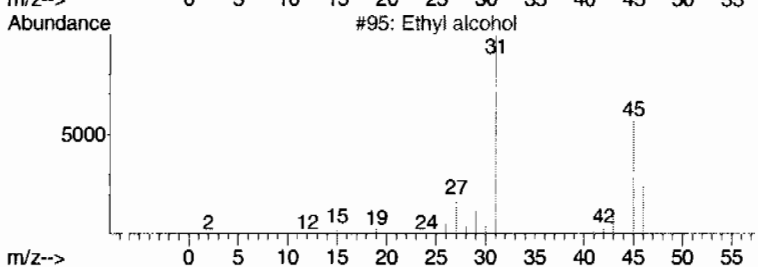
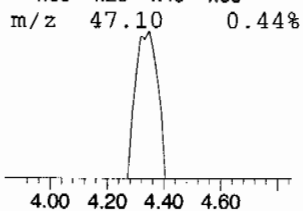
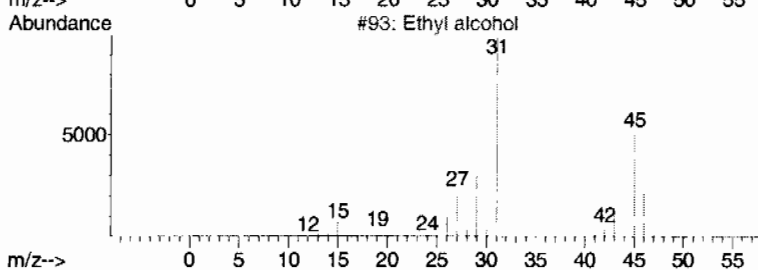
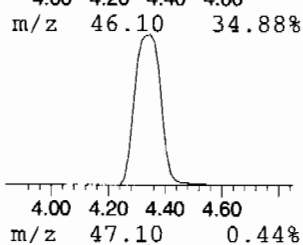
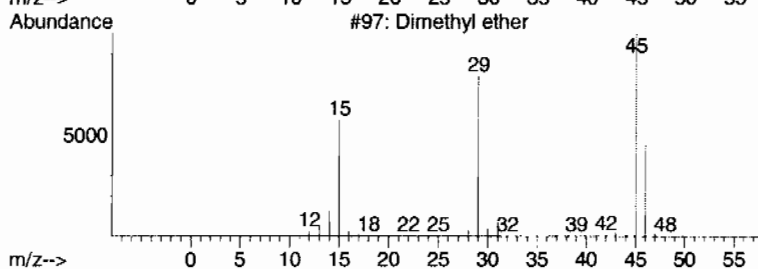
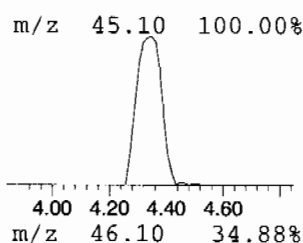
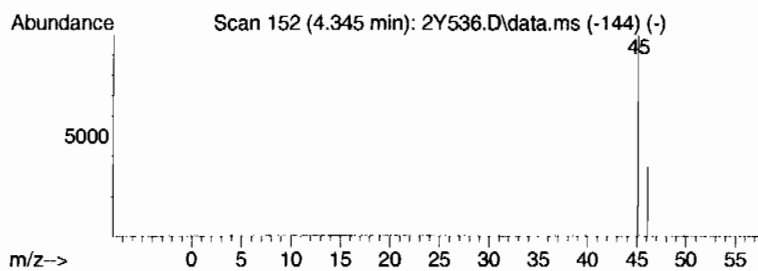
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.345	18.50 ug/L	1072190	Fluorobenzene	12.425

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dimethyl ether	46	C2H6O	000115-10-6	5
2	Ethyl alcohol	46	C2H6O	000064-17-5	4
3	Ethyl alcohol	46	C2H6O	000064-17-5	4
4	Ethyl alcohol	46	C2H6O	000064-17-5	4
5	Formic acid	46	CH2O2	000064-18-6	3



Tentatively Identified Compound (LSC) summary
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y536.D
Acq On : 12 Feb 2010 11:39 pm
Operator : CDS1
Sample : |246434005|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 36 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown	4.345	18.5	ug/L	1072190	1	12.425	2897330	50.0

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434006
 Client ID: RE15-10-8355
 Batch ID: 952586
 Run Date: 02/13/2010 00:08
 Prep Date: 02/12/2010 11:09
 Data File: 021210V2.b\2Y537.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 12.7
 Project: I.ANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.15	ug/kg	0.389	1.15
74-87-3	Chloromethane	U	1.15	ug/kg	0.344	1.15
75-01-4	Vinyl chloride	U	1.15	ug/kg	0.344	1.15
74-83-9	Bromomethane	U	1.15	ug/kg	0.344	1.15
75-00-3	Chloroethane	U	1.15	ug/kg	0.344	1.15
75-69-4	Trichlorofluoromethane	U	1.15	ug/kg	0.344	1.15
67-64-1	Acetone	U	5.73	ug/kg	1.90	5.73
75-35-4	1,1-Dichloroethylene	U	1.15	ug/kg	0.344	1.15
74-88-4	Iodomethane	U	5.73	ug/kg	1.83	5.73
75-09-2	Methylene chloride	U	5.73	ug/kg	2.29	5.73
75-15-0	Carbon disulfide	U	5.73	ug/kg	1.43	5.73
156-60-5	trans-1,2-Dichloroethylene	U	1.15	ug/kg	0.344	1.15
75-34-3	1,1-Dichloroethane	U	1.15	ug/kg	0.344	1.15
78-93-3	2-Butanone	U	5.73	ug/kg	1.72	5.73
156-59-2	cis-1,2-Dichloroethylene	U	1.15	ug/kg	0.344	1.15
594-20-7	2,2-Dichloropropane	U	1.15	ug/kg	0.344	1.15
67-66-3	Chloroform	U	1.15	ug/kg	0.344	1.15
74-97-5	Bromochloromethane	U	1.15	ug/kg	0.378	1.15
71-55-6	1,1,1-Trichloroethane	U	1.15	ug/kg	0.344	1.15
563-58-6	1,1-Dichloropropene	U	1.15	ug/kg	0.344	1.15
56-23-5	Carbon tetrachloride	U	1.15	ug/kg	0.344	1.15
107-06-2	1,2-Dichloroethane	U	1.15	ug/kg	0.344	1.15
71-43-2	Benzene	U	1.15	ug/kg	0.344	1.15
79-01-6	Trichloroethylene	U	1.15	ug/kg	0.378	1.15
78-87-5	1,2-Dichloropropane	U	1.15	ug/kg	0.344	1.15
75-27-4	Bromodichloromethane	U	1.15	ug/kg	0.344	1.15
74-95-3	Dibromomethane	U	1.15	ug/kg	0.344	1.15
108-10-1	4-Methyl-2-pentanone	U	5.73	ug/kg	1.43	5.73
10061-01-5	cis-1,3-Dichloropropylene	U	1.15	ug/kg	0.344	1.15
108-88-3	Toluene	U	1.15	ug/kg	0.344	1.15
10061-02-6	trans-1,3-Dichloropropylene	U	1.15	ug/kg	0.344	1.15
79-00-5	1,1,2-Trichloroethane	U	1.15	ug/kg	0.344	1.15
591-78-6	2-Hexanone	U	5.73	ug/kg	1.72	5.73
142-28-9	1,3-Dichloropropane	U	1.15	ug/kg	0.344	1.15
127-18-4	Tetrachloroethylene	U	1.15	ug/kg	0.344	1.15
124-48-1	Dibromochloromethane	U	1.15	ug/kg	0.344	1.15
106-93-4	1,2-Dibromoethane	U	1.15	ug/kg	0.344	1.15
108-90-7	Chlorobenzene	U	1.15	ug/kg	0.344	1.15

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434006	Date Received: 02/06/2010 09:15	%Moisture: 12.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8355	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/13/2010 00:08	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:09	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.h\2Y537.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.15	ug/kg	0.344	1.15
179601-23-1	m,p-Xylenes	U	2.29	ug/kg	0.344	2.29
95-47-6	o-Xylene	U	1.15	ug/kg	0.344	1.15
100-42-5	Styrene	U	1.15	ug/kg	0.344	1.15
75-25-2	Bromoform	U	1.15	ug/kg	0.344	1.15
79-34-5	1,1,2,2-Tetrachloroethane	U	1.15	ug/kg	0.344	1.15
96-18-4	1,2,3-Trichloropropane	U	1.15	ug/kg	0.344	1.15
108-86-1	Bromobenzene	U	1.15	ug/kg	0.344	1.15
103-65-1	n-Propylbenzene	U	1.15	ug/kg	0.344	1.15
95-49-8	2-Chlorotoluene	U	1.15	ug/kg	0.344	1.15
98-82-8	Isopropylbenzene	U	1.15	ug/kg	0.344	1.15
108-67-8	1,3,5-Trimethylbenzene	U	1.15	ug/kg	0.344	1.15
106-43-4	4-Chlorotoluene	U	1.15	ug/kg	0.344	1.15
98-06-6	tert-Butylbenzene	U	1.15	ug/kg	0.344	1.15
95-63-6	1,2,4-Trimethylbenzene	U	1.15	ug/kg	0.344	1.15
135-98-8	sec-Butylbenzene	U	1.15	ug/kg	0.344	1.15
99-87-6	4-Isopropyltoluene	U	1.15	ug/kg	0.344	1.15
541-73-1	1,3-Dichlorobenzene	U	1.15	ug/kg	0.344	1.15
106-46-7	1,4-Dichlorobenzene	U	1.15	ug/kg	0.344	1.15
104-51-8	n-Butylbenzene	U	1.15	ug/kg	0.344	1.15
96-12-8	1,2-Dibromo-3-chloropropane	U	1.15	ug/kg	0.344	1.15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.73	ug/kg	1.83	5.73
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.15	ug/kg	0.344	1.15
95-50-1	1,2-Dichlorobenzene	U	1.15	ug/kg	0.344	1.15

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.33	28.6	ug/kg	0	J

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y537.D
Acq On : 13 Feb 2010 12:08 am
Operator : CDS1
InstName : VOA2
Sample : |246434006|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Feb 15 07:43:07 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev(Min)
1) Fluorobenzene	12.437	12.437	1.000	96	1108772	50.00	ug/L	0.00
41) Chlorobenzene-d5	15.970	15.970	1.000	117	839564	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	479990	50.00	ug/L	0.00
82) B Fluorobenzene	12.437	12.437	1.000	96	1108645	50.00	ug/L	0.00
103) B Chlorobenzene-d5	15.970	15.971	1.000	117	839723	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	480191	50.00	ug/L	0.00
System Monitoring Compounds								Dev(Min)
29) 1,2-Dichloroethane-d4	11.974	11.986	0.963	65	567974	54.52	ug/L	-0.01
Spiked Amount 50.000	Range 66	- 134	Recovery	=	109.04%			
43) Toluene-d8	14.346	14.346	0.898	98	1105273	49.24	ug/L	0.00
Spiked Amount 50.000	Range 71	- 128	Recovery	=	98.48%			
61) Bromofluorobenzene	17.228	17.227	0.933	95	529096	51.36	ug/L	0.00
Spiked Amount 50.000	Range 65	- 130	Recovery	=	102.72%			
Target Compounds	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	QValue
2) Dichlorodifluoromethane	0.000	4.702	0.000		0	N.D.		
3) Chloromethane	4.999	4.999	0.402	50	162	N.D.		
4) Vinyl chloride	5.252	5.266	0.422	62	673	N.D.		
5) Bromomethane	0.000	5.980	0.000		0	N.D.		
6) Chloroethane	0.000	6.223	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000	6.839	0.000		0	N.D.		
8) Ethyl ether	0.000	7.409	0.000		0	N.D.		
9) Acetone	7.990	7.930	0.642	43	1018	N.D.		
10) 1,1-Dichloroethylene	0.000	7.883	0.000		0	N.D.		
11) Iodomethane	0.000	8.167	0.000		0	N.D.		
12) Acetonitrile	0.000	8.452	0.000		0	N.D.		
13) Methyl acetate	0.000	8.571	0.000		0	N.D.		
14) Carbon disulfide	8.310	8.322	0.668	76	528	N.D.		
15) Methylene chloride	8.761	8.772	0.704	84	6985	N.D.		
16) tert-Butyl methyl ether	0.000	9.282	0.000		0	N.D.		
17) trans-1,2-Dichloroethy...	0.000	9.270	0.000		0	N.D.		
18) Vinyl acetate	0.000	10.017	0.000		0	N.D.		
19) 1,1-Dichloroethane	0.000	9.958	0.000		0	N.D.		
20) 2-Butanone	10.860	10.836	0.873	43	225	N.D.		
21) cis-1,2-Dichloroethylene	0.000	10.848	0.000		0	N.D.		
22) 2,2-Dichloropropane	0.000	10.871	0.000		0	N.D.		
23) Bromochloromethane	0.000	11.203	0.000		0	N.D.		
24) Chloroform	11.286	11.298	0.908	83	120	N.D.		
25) 1,1,1-Trichloroethane	0.000	11.606	0.000		0	N.D.		
26) Cyclohexane	0.000	11.713	0.000		0	N.D.		
27) 1,1-Dichloropropene	0.000	11.820	0.000		0	N.D.		
28) Carbon tetrachloride	0.000	11.844	0.000		0	N.D.		
30) 1,2-Dichloroethane	0.000	12.093	0.000		0	N.D.		
31) Benzene	12.093	12.093	0.972	78	237	N.D.		
32) Cyclohexene	0.000	12.247	0.000		0	N.D.		
33) n-Butyl alcohol	0.000	12.697	0.000		0	N.D.		
34) Trichloroethylene	0.000	12.899	0.000		0	N.D.		
35) 1,2-Dichloropropane	0.000	13.172	0.000		0	N.D.		
36) Methylcyclohexane	0.000	13.184	0.000		0	N.D.		
37) Dibromomethane	0.000	13.314	0.000		0	N.D.		

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y537.D
Acq On : 13 Feb 2010 12:08 am
Operator : CDS1
InstName : VOA2
Sample : |246434006|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Feb 15 07:43:07 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
38) Bromodichloromethane	0.000	13.480	0.000		0	N.D.	
39) 2-Chloroethylvinyl ether	0.000	13.800	0.000		0	N.D.	
40) cis-1,3-Dichloropropylene	0.000	14.002	0.000		0	N.D.	
42) 4-Methyl-2-pentanone	0.000	14.144	0.000		0	N.D.	
44) Toluene	14.417	14.429	0.903	91	683	N.D.	
45) trans-1,3-Dichloroprop...	0.000	14.618	0.000		0	N.D.	
46) 1,1,2-Trichloroethane	0.000	14.844	0.000		0	N.D.	
47) 2-Hexanone	15.081	15.069	0.944	43	275	N.D.	
48) 1,3-Dichloropropane	0.000	15.045	0.000		0	N.D.	
49) Tetrachloroethylene	0.000	15.069	0.000		0	N.D.	
50) Dibromochloromethane	0.000	15.318	0.000		0	N.D.	
51) 1,2-Dibromoethane	0.000	15.472	0.000		0	N.D.	
52) Chlorobenzene	16.006	16.006	1.002	112	160	N.D.	
53) 1,1,1,2-Tetrachloroethane	0.000	16.077	0.000		0	N.D.	
54) Ethylbenzene	16.220	16.101	1.016	91	654	N.D.	
55) m,p-Xylenes	16.208	16.219	1.015	106	128	N.D.	
56) o-Xylene	0.000	16.658	0.000		0	N.D.	
57) Styrene	16.658	16.658	1.043	104	139	N.D.	
59) Bromoform	0.000	16.895	0.000		0	N.D.	
60) Isopropylbenzene	0.000	17.038	0.000		0	N.D.	
62) 1,1,2,2-Tetrachloroethane	0.000	17.310	0.000		0	N.D.	
63) 1,2,3-Trichloropropane	0.000	17.393	0.000		0	N.D.	
64) Bromobenzene	0.000	17.429	0.000		0	N.D.	
65) n-Propylbenzene	17.465	17.476	0.946	91	252	N.D.	
66) 1,3,5-Trimethylbenzene	0.000	17.642	0.000		0	N.D.	
67) 2-Chlorotoluene	0.000	17.607	0.000		0	N.D.	
68) 4-Chlorotoluene	17.726	17.714	0.960	91	633	N.D.	
69) tert-Butylbenzene	0.000	18.010	0.000		0	N.D.	
70) 1,2,4-Trimethylbenzene	0.000	18.057	0.000		0	N.D.	
71) sec-Butylbenzene	0.000	18.235	0.000		0	N.D.	
72) 4-Isopropyltoluene	0.000	18.366	0.000		0	N.D.	
73) 1,3-Dichlorobenzene	18.413	18.401	0.997	146	372	N.D.	
74) 1,4-Dichlorobenzene	18.485	18.496	1.001	146	691	N.D.	
75) n-Butylbenzene	18.805	18.805	1.019	91	253	N.D.	
76) 1,2-Dichlorobenzene	18.900	18.899	1.024	146	285	N.D.	
77) 1,2-Dibromo-3-chloropr...	0.000	19.718	0.000		0	N.D.	
78) 1,2,4-Trichlorobenzene	20.702	20.690	1.121	180	425	N.D.	
79) Hexachlorobutadiene	0.000	20.868	0.000		0	N.D.	
80) Naphthalene	21.022	21.022	1.139	128	1198	N.D.	
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156	180	226	N.D.	
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.	
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.	
85) Acrolein	0.000	7.646	0.000		0	N.D.	
86) Trichlorotrifluoroethane	0.000	7.930	0.000		0	N.D.	
87) Isopropyl Alcohol	0.000	8.191	0.000		0	N.D.	
88) Allyl chloride	0.000	8.559	0.000		0	N.D.	
89) tert-Butyl Alcohol	0.000	8.938	0.000		0	N.D.	
90) Acrylonitrile	0.000	9.164	0.000		0	N.D.	
91) Isopropyl ether	0.000	10.077	0.000		0	N.D.	
92) 2-Chloro-1,3-butadiene	0.000	10.124	0.000		0	N.D.	
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.	
94) Ethyl acetate	10.860	10.919	0.873	43	225	N.D.	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y537.D
Acq On : 13 Feb 2010 12:08 am
Operator : CDS1
InstName : VOA2
Sample : |246434006|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Feb 15 07:43:07 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

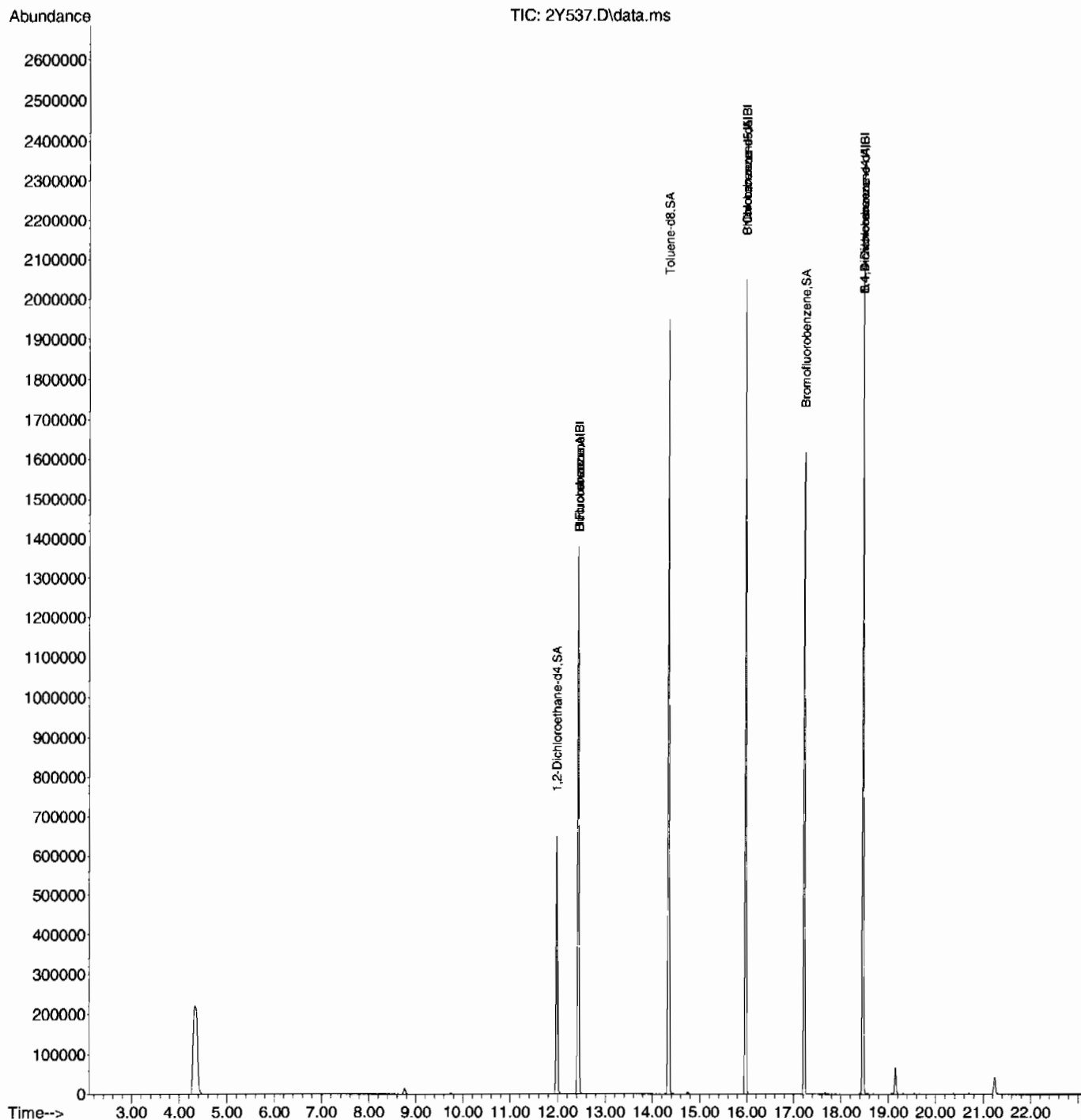
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	0.000	10.907	0.000		0	N.D.	
96) Methacrylonitrile	0.000	11.144	0.000		0	N.D.	
97) Tetrahydrofuran	11.286	11.275	0.908	42	260	N.D.	
98) Isobutyl alcohol	11.974	11.856	0.963	41	107	N.D.	
99) Methyl tert-amyl ether	0.000	12.211	0.000		0	N.D.	
100) Methyl methacrylate	0.000	13.243	0.000		0	N.D.	
101) 1,4-Dioxane	0.000	13.314	0.000		0	N.D.	
102) 2-Nitropropane	0.000	13.729	0.000		0	N.D.	
104) Ethyl methacrylate	0.000	14.678	0.000		0	N.D.	
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	0.000	17.073	0.000		0	N.D.	
108) Cyclohexanone	0.000	17.156	0.000		0	N.D.	
109) trans-1,4-Dichloro-2-b...	0.000	17.370	0.000		0	N.D.	
110) Pentachloroethane	0.000	18.058	0.000		0	N.D.	
111) Benzyl chloride	18.461	18.603	1.000	91	1604	N.D.	
112) bis(2-Chloroisopropyl)...	19.149	19.018	1.037	45	3810	N.D.	

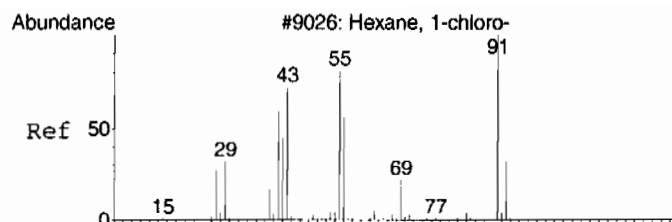
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y537.D
Acq On : 13 Feb 2010 12:08 am
Operator : CDS1
InstName : VOA2
Sample : |246434006|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 37 Sample Multiplier: 1

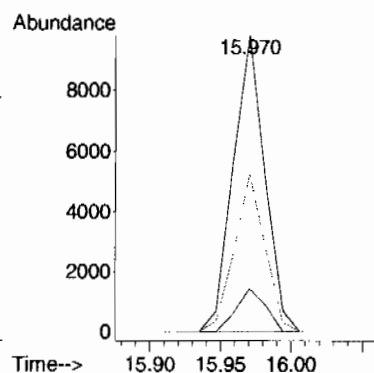
Quant Time: Feb 15 07:43:07 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE





#106 BEFORE analyst DELETION
1-Chlorohexane
Concen: 2.27 ug/L
RT: 15.970 min Scan# 1102
Delta R.T. 0.059 min
Lab File: 2Y537.D
Acq: 13 Feb 2010 12:08 am

Tgt Ion: 55 Resp: 15354
Ion Ratio Lower Upper
55 100
91 13.4 66.2 126.2#
56 51.7 26.7 86.7



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y537.D
Acq On : 13 Feb 2010 12:08 am
Operator : CDS1
Sample : |246434006|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 37 Sample Multiplier: 1

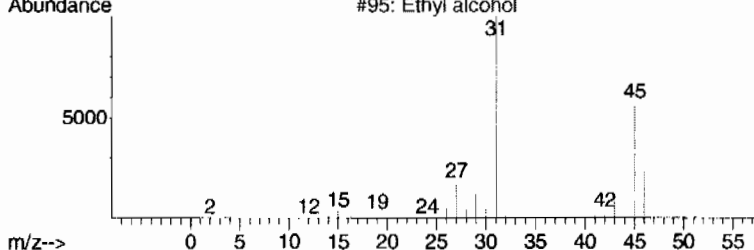
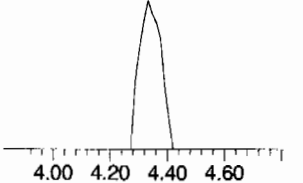
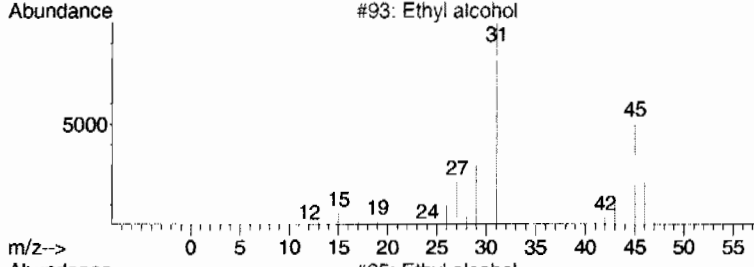
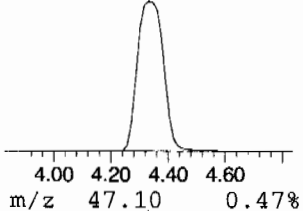
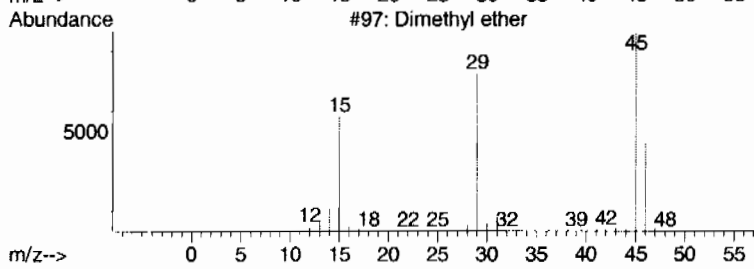
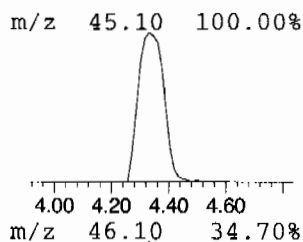
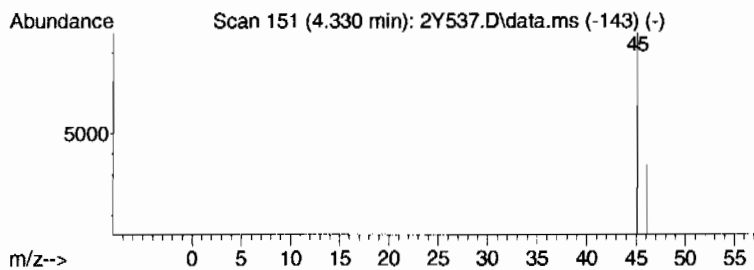
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.330	24.99 ug/L	1391450	Fluorobenzene	12.437

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Dimethyl ether	46	C2H6O	000115-10-6	5
2			Ethyl alcohol	46	C2H6O	000064-17-5	4
3			Ethyl alcohol	46	C2H6O	000064-17-5	4
4			Ethyl alcohol	46	C2H6O	000064-17-5	4
5			Formic acid	46	CH2O2	000064-18-6	3



Tentatively Identified Compound (LSC) summary
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y537.D
Acq On : 13 Feb 2010 12:08 am
Operator : CDS1
Sample : |246434006|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 37 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown	4.330	25.0	ug/L	1391450	1	12.437	2784530	50.0

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434007	Date Received: 02/06/2010 09:15	%Moisture: 15.1
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8351	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.1	Dilution: 1
Run Date: 02/13/2010 00:37	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:10	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y538.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDI/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.18	ug/kg	0.401	1.18
74-87-3	Chloromethane	U	1.18	ug/kg	0.353	1.18
75-01-4	Vinyl chloride	U	1.18	ug/kg	0.353	1.18
74-83-9	Bromomethane	U	1.18	ug/kg	0.353	1.18
75-00-3	Chloroethane	U	1.18	ug/kg	0.353	1.18
75-69-4	Trichlorofluoromethane	U	1.18	ug/kg	0.353	1.18
67-64-1	Acetone	U	5.89	ug/kg	1.96	5.89
75-35-4	1,1-Dichloroethylene	U	1.18	ug/kg	0.353	1.18
74-88-4	Iodomethane	U	5.89	ug/kg	1.89	5.89
75-09-2	Methylene chloride	U	5.89	ug/kg	2.36	5.89
75-15-0	Carbon disulfide	U	5.89	ug/kg	1.47	5.89
156-60-5	trans-1,2-Dichloroethylene	U	1.18	ug/kg	0.353	1.18
75-34-3	1,1-Dichloroethane	U	1.18	ug/kg	0.353	1.18
78-93-3	2-Butanone	U	5.89	ug/kg	1.77	5.89
156-59-2	cis-1,2-Dichloroethylene	U	1.18	ug/kg	0.353	1.18
594-20-7	2,2-Dichloropropane	U	1.18	ug/kg	0.353	1.18
67-66-3	Chloroform	U	1.18	ug/kg	0.353	1.18
74-97-5	Bromochloromethane	U	1.18	ug/kg	0.389	1.18
71-55-6	1,1,1-Trichloroethane	U	1.18	ug/kg	0.353	1.18
563-58-6	1,1-Dichloropropene	U	1.18	ug/kg	0.353	1.18
56-23-5	Carbon tetrachloride	U	1.18	ug/kg	0.353	1.18
107-06-2	1,2-Dichloroethane	U	1.18	ug/kg	0.353	1.18
71-43-2	Benzene	U	1.18	ug/kg	0.353	1.18
79-01-6	Trichloroethylene	U	1.18	ug/kg	0.389	1.18
78-87-5	1,2-Dichloropropane	U	1.18	ug/kg	0.353	1.18
75-27-4	Bromodichloromethane	U	1.18	ug/kg	0.353	1.18
74-95-3	Dibromomethane	U	1.18	ug/kg	0.353	1.18
108-10-1	4-Methyl-2-pentanone	U	5.89	ug/kg	1.47	5.89
10061-01-5	cis-1,3-Dichloropropylene	U	1.18	ug/kg	0.353	1.18
108-88-3	Toluene	U	1.18	ug/kg	0.353	1.18
10061-02-6	trans-1,3-Dichloropropylene	U	1.18	ug/kg	0.353	1.18
79-00-5	1,1,2-Trichloroethane	U	1.18	ug/kg	0.353	1.18
591-78-6	2-Hexanone	U	5.89	ug/kg	1.77	5.89
142-28-9	1,3-Dichloropropane	U	1.18	ug/kg	0.353	1.18
127-18-4	Tetrachloroethylene	U	1.18	ug/kg	0.353	1.18
124-48-1	Dibromochloromethane	U	1.18	ug/kg	0.353	1.18
106-93-4	1,2-Dibromoethane	U	1.18	ug/kg	0.353	1.18
108-90-7	Chlorobenzene	U	1.18	ug/kg	0.353	1.18

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434007	Date Received: 02/06/2010 09:15	%Moisture: 15.1
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8351	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.1	Dilution: 1
Run Date: 02/13/2010 00:37	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:10	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y538.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.18	ug/kg	0.353	1.18
179601-23-1	m,p-Xylenes	U	2.36	ug/kg	0.353	2.36
95-47-6	o-Xylene	U	1.18	ug/kg	0.353	1.18
100-42-5	Styrene	U	1.18	ug/kg	0.353	1.18
75-25-2	Bromoform	U	1.18	ug/kg	0.353	1.18
79-34-5	1,1,2,2-Tetrachloroethane	U	1.18	ug/kg	0.353	1.18
96-18-4	1,2,3-Trichloropropane	U	1.18	ug/kg	0.353	1.18
108-86-1	Bromobenzene	U	1.18	ug/kg	0.353	1.18
103-65-1	n-Propylbenzene	U	1.18	ug/kg	0.353	1.18
95-49-8	2-Chlorotoluene	U	1.18	ug/kg	0.353	1.18
98-82-8	Isopropylbenzene	U	1.18	ug/kg	0.353	1.18
108-67-8	1,3,5-Trimethylbenzene	U	1.18	ug/kg	0.353	1.18
106-43-4	4-Chlorotoluene	U	1.18	ug/kg	0.353	1.18
98-06-6	tert-Butylbenzene	U	1.18	ug/kg	0.353	1.18
95-63-6	1,2,4-Trimethylbenzene	U	1.18	ug/kg	0.353	1.18
135-98-8	sec-Butylbenzene	U	1.18	ug/kg	0.353	1.18
99-87-6	4-Isopropyltoluene	U	1.18	ug/kg	0.353	1.18
541-73-1	1,3-Dichlorobenzene	U	1.18	ug/kg	0.353	1.18
106-46-7	1,4-Dichlorobenzene	U	1.18	ug/kg	0.353	1.18
104-51-8	n-Butylbenzene	U	1.18	ug/kg	0.353	1.18
96-12-8	1,2-Dibromo-3-chloropropane	U	1.18	ug/kg	0.353	1.18
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.89	ug/kg	1.89	5.89
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.18	ug/kg	0.353	1.18
95-50-1	1,2-Dichlorobenzene	U	1.18	ug/kg	0.353	1.18

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	23.6	ug/kg	0	J
005131-66-8	2-Propanol, 1-butoxy-	17.33	13.9	ug/kg	86	NJ

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y538.D
Acq On : 13 Feb 2010 12:37 am
Operator : CDS1
InstName : VOA2
Sample : |246434007|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Feb 15 07:43:32 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev(Min)
1) Fluorobenzene	12.437	12.437	1.000	96	1107681	50.00	ug/L	0.00
41) Chlorobenzene-d5	15.971	15.970	1.000	117	831095	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	491119	50.00	ug/L	0.00
82) B Fluorobenzene	12.437	12.437	1.000	96	1107567	50.00	ug/L	0.00
103) B Chlorobenzene-d5	15.971	15.971	1.000	117	832300	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	491256	50.00	ug/L	0.00
System Monitoring Compounds								Dev(Min)
29) 1,2-Dichloroethane-d4	11.986	11.986	0.964	65	558526	53.67	ug/L	0.00
Spiked Amount 50.000	Range 66	- 134	Recovery	=	107.34%			
43) Toluene-d8	14.346	14.346	0.898	98	1090640	49.08	ug/L	0.00
Spiked Amount 50.000	Range 71	- 128	Recovery	=	98.16%			
61) Bromofluorobenzene	17.228	17.227	0.933	95	518498	49.19	ug/L	0.00
Spiked Amount 50.000	Range 65	- 130	Recovery	=	98.38%			
Target Compounds								QValue
2) Dichlorodifluoromethane	0.000	4.702	0.000		0	N.D.		
3) Chloromethane	5.014	4.999	0.403	50	270	N.D.		
4) Vinyl chloride	5.252	5.266	0.422	62	734	N.D.		
5) Bromomethane	0.000	5.980	0.000		0	N.D.		
6) Chloroethane	0.000	6.223	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000	6.839	0.000		0	N.D.		
8) Ethyl ether	0.000	7.409	0.000		0	N.D.		
9) Acetone	7.990	7.930	0.642	43	3579	N.D.		
10) 1,1-Dichloroethylene	0.000	7.883	0.000		0	N.D.		
11) Iodomethane	0.000	8.167	0.000		0	N.D.		
12) Acetonitrile	0.000	8.452	0.000		0	N.D.		
13) Methyl acetate	8.606	8.571	0.692	43	245	N.D.		
14) Carbon disulfide	8.322	8.322	0.669	76	652	N.D.		
15) Methylene chloride	8.772	8.772	0.705	84	10135	N.D.		
16) tert-Butyl methyl ether	0.000	9.282	0.000		0	N.D.		
17) trans-1,2-Dichloroethy...	0.000	9.270	0.000		0	N.D.		
18) Vinyl acetate	0.000	10.017	0.000		0	N.D.		
19) 1,1-Dichloroethane	0.000	9.958	0.000		0	N.D.		
20) 2-Butanone	10.860	10.836	0.873	43	270	N.D.		
21) cis-1,2-Dichloroethylene	0.000	10.848	0.000		0	N.D.		
22) 2,2-Dichloropropane	0.000	10.871	0.000		0	N.D.		
23) Bromochloromethane	0.000	11.203	0.000		0	N.D.		
24) Chloroform	11.298	11.298	0.908	83	137	N.D.		
25) 1,1,1-Trichloroethane	0.000	11.606	0.000		0	N.D.		
26) Cyclohexane	0.000	11.713	0.000		0	N.D.		
27) 1,1-Dichloropropene	0.000	11.820	0.000		0	N.D.		
28) Carbon tetrachloride	0.000	11.844	0.000		0	N.D.		
30) 1,2-Dichloroethane	0.000	12.093	0.000		0	N.D.		
31) Benzene	12.093	12.093	0.972	78	181	N.D.		
32) Cyclohexene	0.000	12.247	0.000		0	N.D.		
33) n-Butyl alcohol	0.000	12.697	0.000		0	N.D.		
34) Trichloroethylene	0.000	12.899	0.000		0	N.D.		
35) 1,2-Dichloropropane	0.000	13.172	0.000		0	N.D.		
36) Methylcyclohexane	0.000	13.184	0.000		0	N.D.		
37) Dibromomethane	0.000	13.314	0.000		0	N.D.		

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y538.D
Acq On : 13 Feb 2010 12:37 am
Operator : CDS1
InstName : VOA2
Sample : |246434007|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Feb 15 07:43:32 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
38) Bromodichloromethane	0.000	13.480	0.000		0	N.D.	
39) 2-Chloroethylvinyl ether	0.000	13.800	0.000		0	N.D.	
40) cis-1,3-Dichloropropylene	0.000	14.002	0.000		0	N.D.	
42) 4-Methyl-2-pentanone	0.000	14.144	0.000		0	N.D.	
44) Toluene	14.429	14.429	0.903	91	1557	N.D.	
45) trans-1,3-Dichloroprop...	0.000	14.618	0.000		0	N.D.	
46) 1,1,2-Trichloroethane	0.000	14.844	0.000		0	N.D.	
47) 2-Hexanone	15.069	15.069	0.944	43	2850	N.D.	
48) 1,3-Dichloropropane	0.000	15.045	0.000		0	N.D.	
49) Tetrachloroethylene	0.000	15.069	0.000		0	N.D.	
50) Dibromochloromethane	0.000	15.318	0.000		0	N.D.	
51) 1,2-Dibromoethane	0.000	15.472	0.000		0	N.D.	
52) Chlorobenzene	0.000	16.006	0.000		0	N.D.	
53) 1,1,1,2-Tetrachloroethane	16.137	16.077	1.010	131	349	N.D.	
54) Ethylbenzene	0.000	16.101	0.000		0	N.D.	
55) m,p-Xylenes	16.208	16.219	1.015	106	664	N.D.	
56) o-Xylene	0.000	16.658	0.000		0	N.D.	
57) Styrene	16.670	16.658	1.044	104	322	N.D.	
59) Bromoform	0.000	16.895	0.000		0	N.D.	
60) Isopropylbenzene	17.062	17.038	0.924	105	2258	N.D.	
62) 1,1,2,2-Tetrachloroethane	0.000	17.310	0.000		0	N.D.	
63) 1,2,3-Trichloropropane	0.000	17.393	0.000		0	N.D.	
64) Bromobenzene	0.000	17.429	0.000		0	N.D.	
65) n-Propylbenzene	17.477	17.476	0.947	91	659	N.D.	
66) 1,3,5-Trimethylbenzene	17.643	17.642	0.956	105	521	N.D.	
67) 2-Chlorotoluene	17.714	17.607	0.960	126	110	N.D.	
68) 4-Chlorotoluene	17.714	17.714	0.960	91	1093	N.D.	
69) tert-Butylbenzene	18.105	18.010	0.981	134	107	N.D.	
70) 1,2,4-Trimethylbenzene	18.058	18.057	0.978	105	384	N.D.	
71) sec-Butylbenzene	0.000	18.235	0.000		0	N.D.	
72) 4-Isopropyltoluene	18.366	18.366	0.995	119	833	N.D.	
73) 1,3-Dichlorobenzene	18.413	18.401	0.997	146	446	N.D.	
74) 1,4-Dichlorobenzene	18.496	18.496	1.002	146	621	N.D.	
75) n-Butylbenzene	18.805	18.805	1.019	91	162	N.D.	
76) 1,2-Dichlorobenzene	18.911	18.899	1.024	146	241	N.D.	
77) 1,2-Dibromo-3-chloropr...	0.000	19.718	0.000		0	N.D.	
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	339	N.D.	
79) Hexachlorobutadiene	0.000	20.868	0.000		0	N.D.	
80) Naphthalene	21.034	21.022	1.139	128	1316	N.D.	
81) 1,2,3-Trichlorobenzene	0.000	21.342	0.000		0	N.D.	
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.	
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.	
85) Acrolein	0.000	7.646	0.000		0	N.D.	
86) Trichlorotrifluoroethane	0.000	7.930	0.000		0	N.D.	
87) Isopropyl Alcohol	8.085	8.191	0.650	45	812	N.D.	
88) Allyl chloride	0.000	8.559	0.000		0	N.D.	
89) tert-Butyl Alcohol	8.938	8.938	0.719	59	142	N.D.	
90) Acrylonitrile	0.000	9.164	0.000		0	N.D.	
91) Isopropyl ether	0.000	10.077	0.000		0	N.D.	
92) 2-Chloro-1,3-butadiene	0.000	10.124	0.000		0	N.D.	
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.	
94) Ethyl acetate	10.860	10.919	0.873	43	270	N.D.	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y538.D
Acq On : 13 Feb 2010 12:37 am
Operator : CDS1
InstName : VOA2
Sample : |246434007|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Feb 15 07:43:32 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

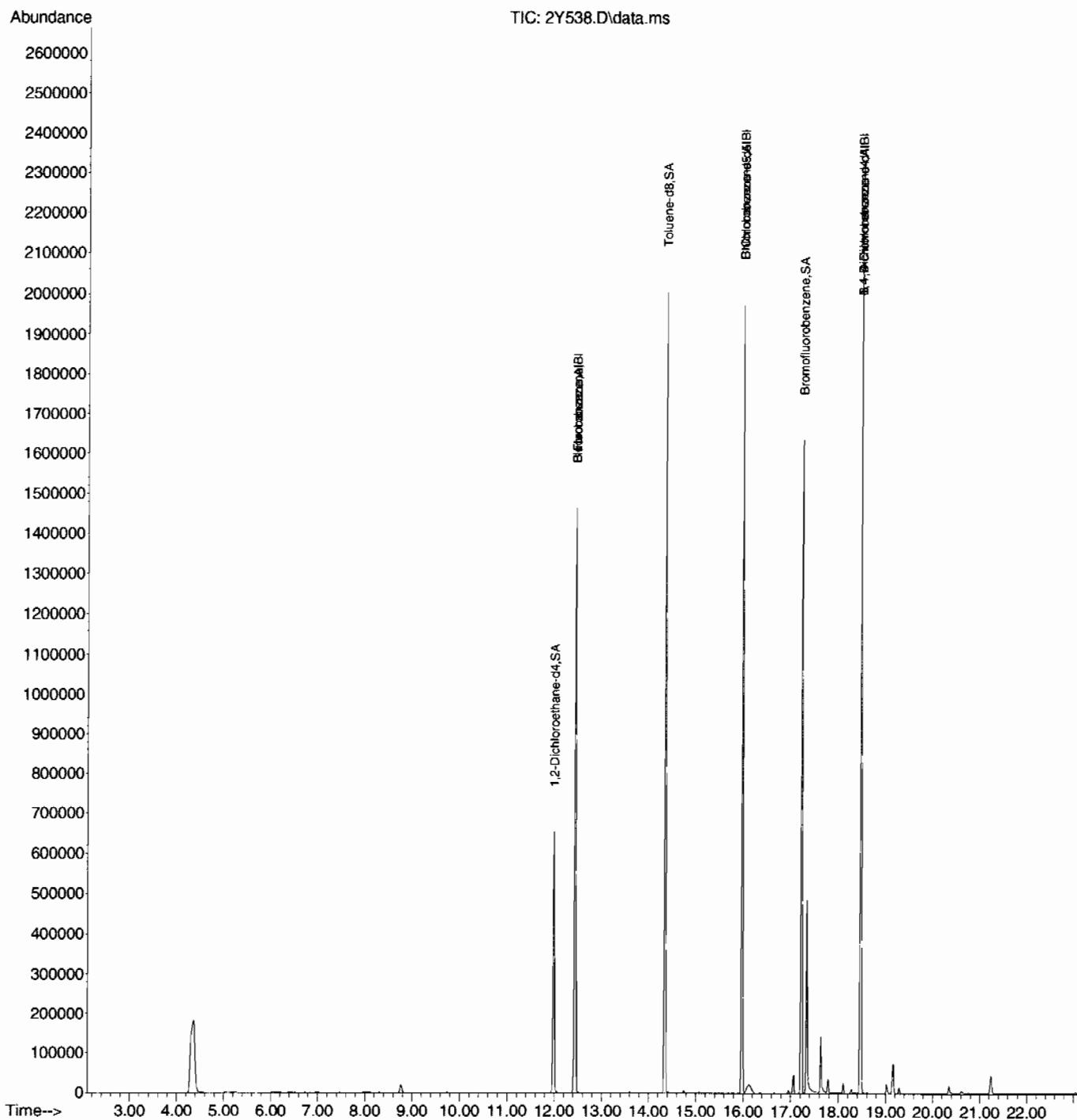
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	0.000	10.907	0.000		0	N.D.	
96) Methacrylonitrile	0.000	11.144	0.000		0	N.D.	
97) Tetrahydrofuran	11.286	11.275	0.908	42	411	N.D.	
98) Isobutyl alcohol	0.000	11.856	0.000		0	N.D.	
99) Methyl tert-amyl ether	0.000	12.211	0.000		0	N.D.	
100) Methyl methacrylate	0.000	13.243	0.000		0	N.D.	
101) 1,4-Dioxane	0.000	13.314	0.000		0	N.D.	
102) 2-Nitropropane	0.000	13.729	0.000		0m	N.D.	d
104) Ethyl methacrylate	0.000	14.678	0.000		0	N.D.	
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	17.062	17.073	0.924	53	2278	N.D.	
108) Cyclohexanone	17.062	17.156	0.924	42	280	N.D.	
109) trans-1,4-Dichloro-2-b...	0.000	17.370	0.000		0m	N.D.	d
110) Pentachloroethane	0.000	18.058	0.000		0	N.D.	
111) Benzyl chloride	18.603	18.603	1.008	91	423	N.D.	
112) bis(2-Chloroisopropyl)...	19.149	19.018	1.037	45	4064	N.D.	

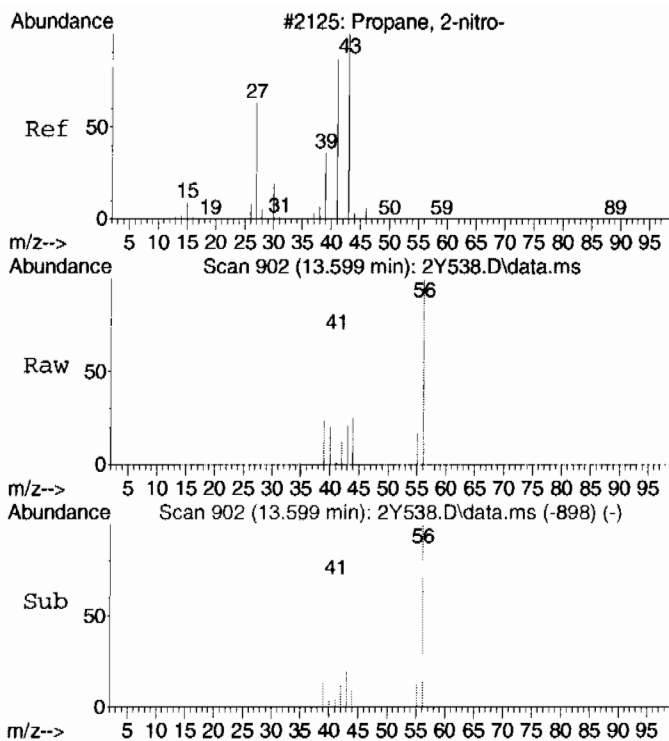
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y538.D
Acq On : 13 Feb 2010 12:37 am
Operator : CDS1
InstName : VOA2
Sample : |246434007|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 38 Sample Multiplier: 1

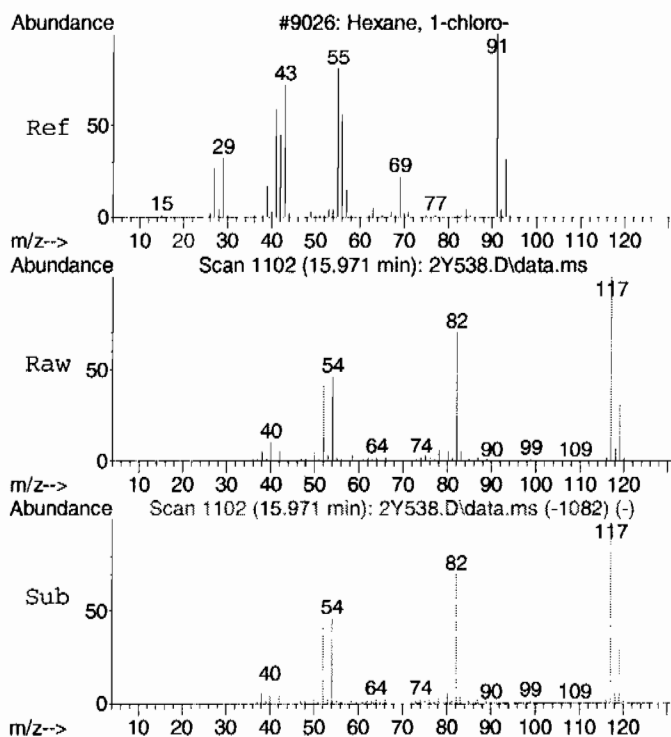
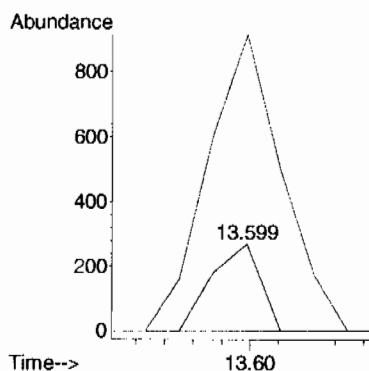
Quant Time: Feb 15 07:43:32 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE





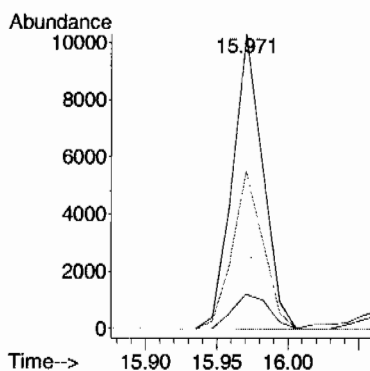
#102 BEFORE analyst DELETION
2-Nitropropane
Concen: 7.23 ug/L
RT: 13.599 min Scan# 902
Delta R.T. -0.130 min
Lab File: 2Y538.D
Acq: 13 Feb 2010 12:37 am

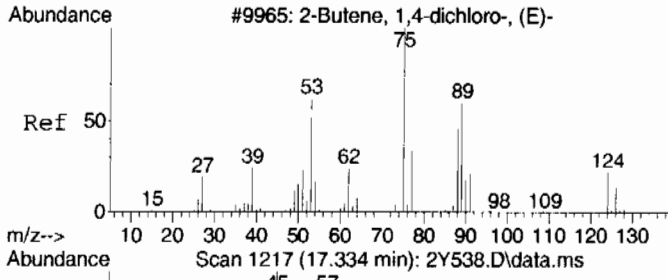
Tgt Ion: 43 Resp: 319
Ion Ratio Lower Upper
43 100
41 488.1 50.8 110.8#



#106 BEFORE analyst DELETION
1-Chlorohexane
Concen: 2.21 ug/L
RT: 15.971 min Scan# 1102
Delta R.T. 0.060 min
Lab File: 2Y538.D
Acq: 13 Feb 2010 12:37 am

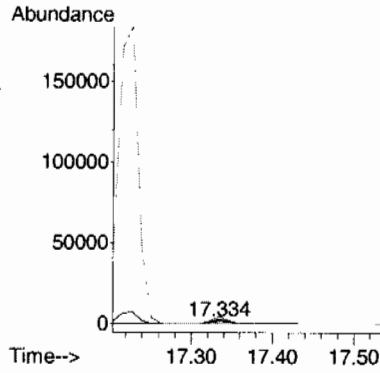
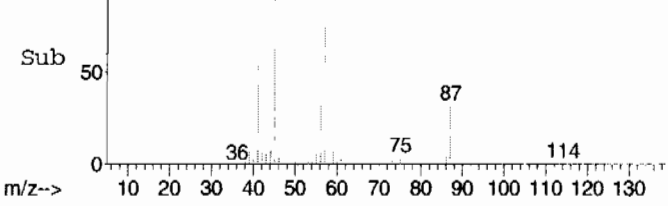
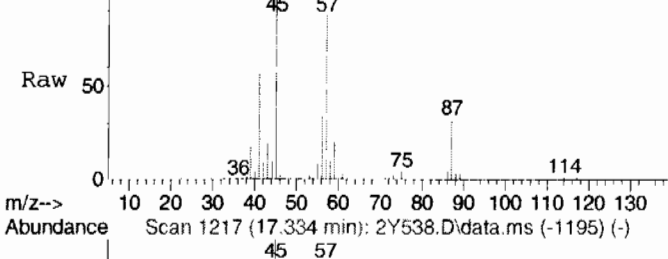
Tgt Ion: 55 Resp: 15289
Ion Ratio Lower Upper
55 100
91 14.1 66.2 126.2#
56 54.1 26.7 86.7





#109 BEFORE analyst DELETION
 trans-1,4-Dichloro-2-butene
 Concen: 1.54 ug/L
 RT: 17.334 min Scan# 1217
 Delta R.T. -0.036 min
 Lab File: 2Y538.D
 Acq: 13 Feb 2010 12:37 am

Tgt Ion: 53 Resp: 3976
 Ion Ratio Lower Upper
 53 100
 88 104.4 22.0 82.0#
 75 163.9 51.9 111.9#



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y538.D
Acq On : 13 Feb 2010 12:37 am
Operator : CDS1
Sample : |246434007|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 38 Sample Multiplier: 1

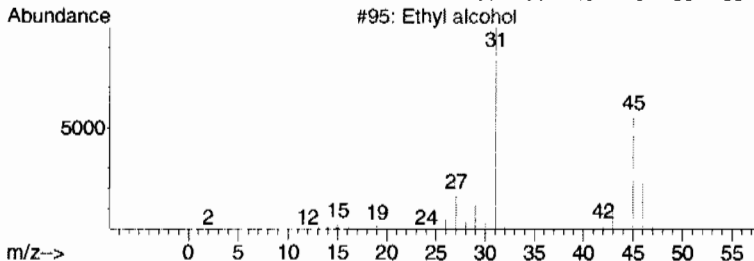
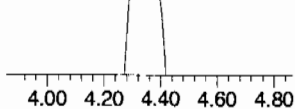
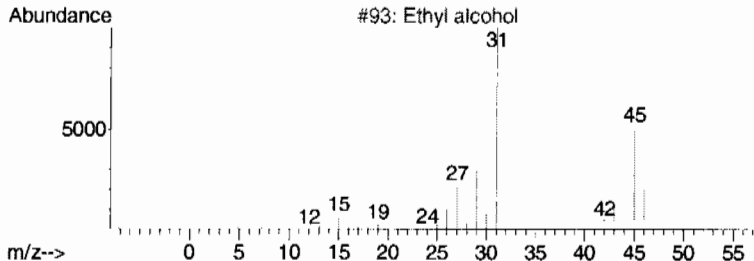
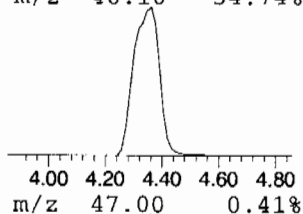
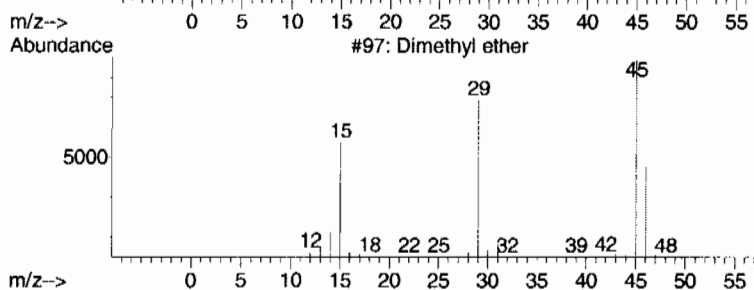
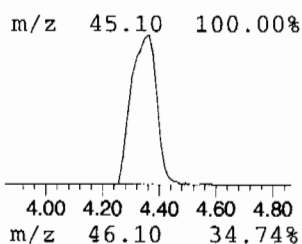
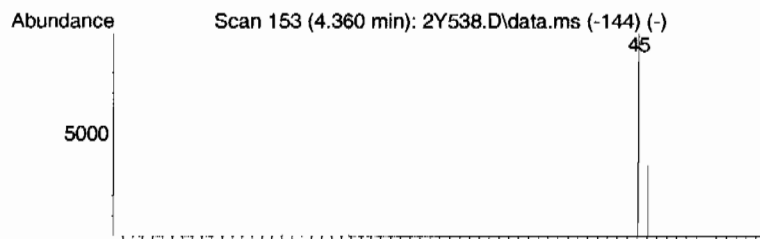
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.360	20.07 ug/L	1146040	Fluorobenzene	12.437

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dimethyl ether	46	C2H6O	000115-10-6	5
2	Ethyl alcohol	46	C2H6O	000064-17-5	4
3	Ethyl alcohol	46	C2H6O	000064-17-5	4
4	Ethyl alcohol	46	C2H6O	000064-17-5	4
5	Formic acid	46	CH2O2	000064-18-6	3



Library Search Compound Report
GEL Laboratories, LLC

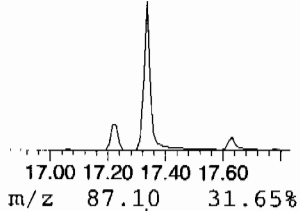
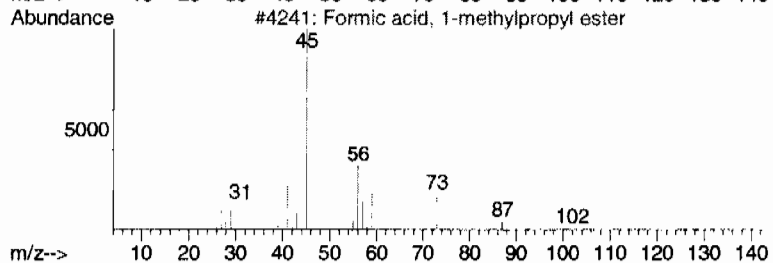
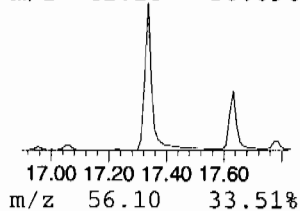
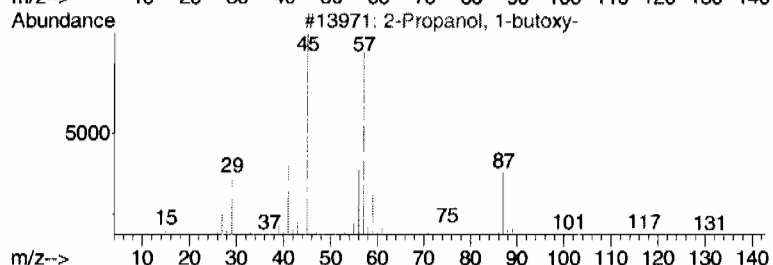
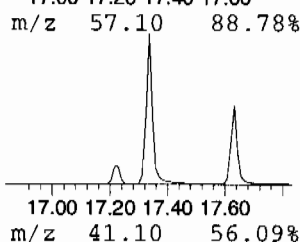
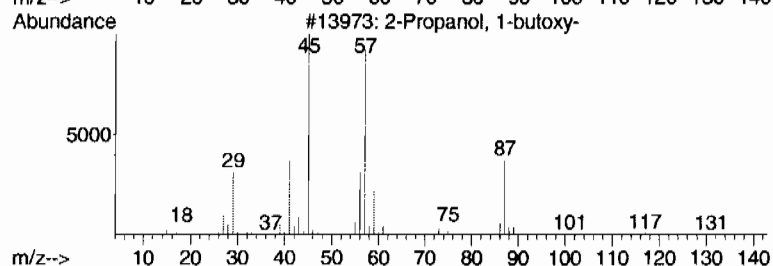
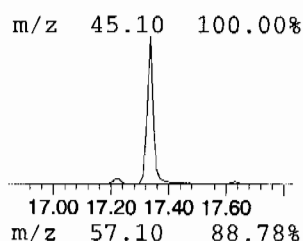
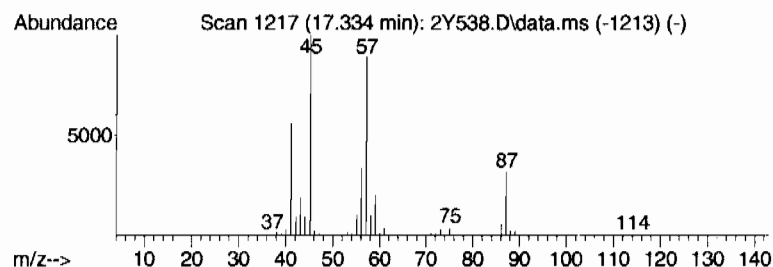
Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y538.D
Acq On : 13 Feb 2010 12:37 am
Operator : CDS1
Sample : |246434007|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 2 2-Propanol, 1-butoxy- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.		
17.334	11.81 ug/L	828154	1,4-Dichlorobenzene-d4	18.461		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		2-Propanol, 1-butoxy-	132	C7H16O2	005131-66-8	86
2		2-Propanol, 1-butoxy-	132	C7H16O2	005131-66-8	86
3		Formic acid, 1-methylpropyl ester	102	C5H10O2	000589-40-2	59
4		3,3-Dimethylbutane-2-ol	102	C6H14O	000464-07-3	53
5		1-Propanol, 2-(1-methylethoxy)-	118	C6H14O2	003944-37-4	42



Tentatively Identified Compound (LSC) summary
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y538.D
Acq On : 13 Feb 2010 12:37 am
Operator : CDS1
Sample : |246434007|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown	4.360	20.1	ug/L	1146040	1	12.437	2854490	50.0
2-Propanol, 1-b...	17.334	11.8	ug/L	828154	5	18.461	3505280	50.0

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434008
 Client ID: RE15-10-8350
 Batch ID: 952586
 Run Date: 02/13/2010 01:06
 Prep Date: 02/12/2010 11:11
 Data File: 021210V2.b\2Y539.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 23.1
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.30	ug/kg	0.442	1.30
74-87-3	Chloromethane	U	1.30	ug/kg	0.390	1.30
75-01-4	Vinyl chloride	U	1.30	ug/kg	0.390	1.30
74-83-9	Bromomethane	U	1.30	ug/kg	0.390	1.30
75-00-3	Chloroethane	U	1.30	ug/kg	0.390	1.30
75-69-4	Trichlorofluoromethane	U	1.30	ug/kg	0.390	1.30
67-64-1	Acetone	U	6.50	ug/kg	2.16	6.50
75-35-4	1,1-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
74-88-4	Iodomethane	U	6.50	ug/kg	2.08	6.50
75-09-2	Methylene chloride	U	6.50	ug/kg	2.60	6.50
75-15-0	Carbon disulfide	U	6.50	ug/kg	1.63	6.50
156-60-5	trans-1,2-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
75-34-3	1,1-Dichloroethane	U	1.30	ug/kg	0.390	1.30
78-93-3	2-Butanone	U	6.50	ug/kg	1.95	6.50
156-59-2	cis-1,2-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
594-20-7	2,2-Dichloropropane	U	1.30	ug/kg	0.390	1.30
67-66-3	Chloroform	U	1.30	ug/kg	0.390	1.30
74-97-5	Bromochloromethane	U	1.30	ug/kg	0.429	1.30
71-55-6	1,1,1-Trichloroethane	U	1.30	ug/kg	0.390	1.30
563-58-6	1,1-Dichloropropene	U	1.30	ug/kg	0.390	1.30
56-23-5	Carbon tetrachloride	U	1.30	ug/kg	0.390	1.30
107-06-2	1,2-Dichloroethane	U	1.30	ug/kg	0.390	1.30
71-43-2	Benzene	U	1.30	ug/kg	0.390	1.30
79-01-6	Trichloroethylene	U	1.30	ug/kg	0.429	1.30
78-87-5	1,2-Dichloropropane	U	1.30	ug/kg	0.390	1.30
75-27-4	Bromodichloromethane	U	1.30	ug/kg	0.390	1.30
74-95-3	Dibromomethane	U	1.30	ug/kg	0.390	1.30
108-10-1	4-Methyl-2-pentanone	U	6.50	ug/kg	1.63	6.50
10061-01-5	cis-1,3-Dichloropropylene	U	1.30	ug/kg	0.390	1.30
108-88-3	Toluene	U	1.30	ug/kg	0.390	1.30
10061-02-6	trans-1,3-Dichloropropylene	U	1.30	ug/kg	0.390	1.30
79-00-5	1,1,2-Trichloroethane	U	1.30	ug/kg	0.390	1.30
591-78-6	2-Hexanone	U	6.50	ug/kg	1.95	6.50
142-28-9	1,3-Dichloropropane	U	1.30	ug/kg	0.390	1.30
127-18-4	Tetrachloroethylene	U	1.30	ug/kg	0.390	1.30
124-48-1	Dibromochloromethane	U	1.30	ug/kg	0.390	1.30
106-93-4	1,2-Dibromoethane	U	1.30	ug/kg	0.390	1.30
108-90-7	Chlorobenzene	U	1.30	ug/kg	0.390	1.30

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434008	Date Received: 02/06/2010 09:15	% Moisture: 23.1
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8350	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.1	Dilution: 1
Run Date: 02/13/2010 01:06	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:11	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b2Y539.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.30	ug/kg	0.390	1.30
179601-23-1	m,p-Xylencs	U	2.60	ug/kg	0.390	2.60
95-47-6	o-Xylene	U	1.30	ug/kg	0.390	1.30
100-42-5	Styrene	U	1.30	ug/kg	0.390	1.30
75-25-2	Bromoform	U	1.30	ug/kg	0.390	1.30
79-34-5	1,1,2,2-Tetrachloroethane	U	1.30	ug/kg	0.390	1.30
96-18-4	1,2,3-Trichloropropane	U	1.30	ug/kg	0.390	1.30
108-86-1	Bromobenzene	U	1.30	ug/kg	0.390	1.30
103-65-1	n-Propylbenzene	U	1.30	ug/kg	0.390	1.30
95-49-8	2-Chlorotoluene	U	1.30	ug/kg	0.390	1.30
98-82-8	Isopropylbenzene	U	1.30	ug/kg	0.390	1.30
108-67-8	1,3,5-Trimethylbenzene	U	1.30	ug/kg	0.390	1.30
106-43-4	4-Chlorotoluene	U	1.30	ug/kg	0.390	1.30
98-06-6	tert-Butylbenzene	U	1.30	ug/kg	0.390	1.30
95-63-6	1,2,4-Trimethylbenzene	U	1.30	ug/kg	0.390	1.30
135-98-8	sec-Butylbenzene	U	1.30	ug/kg	0.390	1.30
99-87-6	4-Isopropyltoluene	U	1.30	ug/kg	0.390	1.30
541-73-1	1,3-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30
106-46-7	1,4-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30
104-51-8	n-Butylbenzene	U	1.30	ug/kg	0.390	1.30
96-12-8	1,2-Dibromo-3-chloropropane	U	1.30	ug/kg	0.390	1.30
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.50	ug/kg	2.08	6.50
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.30	ug/kg	0.390	1.30
95-50-1	1,2-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	26.5	ug/kg	0	J

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y539.D
Acq On : 13 Feb 2010 1:06 am
Operator : CDS1
InstName : VOA2
Sample : |246434008|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Feb 15 07:44:16 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev(Min)
1) Fluorobenzene	12.437	12.437	1.000	96	1082985	50.00	ug/L	0.00
41) Chlorobenzene-d5	15.971	15.970	1.000	117	805462	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	443785	50.00	ug/L	0.00
82) B Fluorobenzene	12.437	12.437	1.000	96	1082787	50.00	ug/L	0.00
103) B Chlorobenzene-d5	15.971	15.971	1.000	117	806236	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	444060	50.00	ug/L	0.00
System Monitoring Compounds								Dev(Min)
29) 1,2-Dichloroethane-d4	11.986	11.986	0.964	65	543532	53.42	ug/L	0.00
Spiked Amount 50.000	Range 66	- 134	Recovery	=	106.84%			
43) Toluene-d8	14.346	14.346	0.898	98	1069061	49.64	ug/L	0.00
Spiked Amount 50.000	Range 71	- 128	Recovery	=	99.28%			
61) Bromofluorobenzene	17.228	17.227	0.933	95	497237	52.21	ug/L	0.00
Spiked Amount 50.000	Range 65	- 130	Recovery	=	104.42%			
Target Compounds								
	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	QValue
2) Dichlorodifluoromethane	0.000	4.702	0.000		0	N.D.		
3) Chloromethane	4.999	4.999	0.402	50	144	N.D.		
4) Vinyl chloride	5.252	5.266	0.422	62	711	N.D.		
5) Bromomethane	0.000	5.980	0.000		0	N.D.		
6) Chloroethane	0.000	6.223	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000	6.839	0.000		0	N.D.		
8) Ethyl ether	0.000	7.409	0.000		0	N.D.		
9) Acetone	8.013	7.930	0.644	43	1729	N.D.		
10) 1,1-Dichloroethylene	0.000	7.883	0.000		0	N.D.		
11) Iodomethane	0.000	8.167	0.000		0	N.D.		
12) Acetonitrile	0.000	8.452	0.000		0	N.D.		
13) Methyl acetate	0.000	8.571	0.000		0	N.D.		
14) Carbon disulfide	8.298	8.322	0.667	76	586	N.D.		
15) Methylene chloride	8.761	8.772	0.704	84	7607	N.D.		
16) tert-Butyl methyl ether	0.000	9.282	0.000		0	N.D.		
17) trans-1,2-Dichloroethy...	0.000	9.270	0.000		0	N.D.		
18) Vinyl acetate	0.000	10.017	0.000		0	N.D.		
19) 1,1-Dichloroethane	0.000	9.958	0.000		0	N.D.		
20) 2-Butanone	10.860	10.836	0.873	43	242	N.D.		
21) cis-1,2-Dichloroethylene	0.000	10.848	0.000		0	N.D.		
22) 2,2-Dichloropropane	0.000	10.871	0.000		0	N.D.		
23) Bromochloromethane	0.000	11.203	0.000		0	N.D.		
24) Chloroform	11.298	11.298	0.908	83	132	N.D.		
25) 1,1,1-Trichloroethane	0.000	11.606	0.000		0	N.D.		
26) Cyclohexane	11.690	11.713	0.940	56	243	N.D.		
27) 1,1-Dichloropropene	0.000	11.820	0.000		0	N.D.		
28) Carbon tetrachloride	0.000	11.844	0.000		0	N.D.		
30) 1,2-Dichloroethane	0.000	12.093	0.000		0	N.D.		
31) Benzene	12.093	12.093	0.972	78	160	N.D.		
32) Cyclohexene	0.000	12.247	0.000		0	N.D.		
33) n-Butyl alcohol	0.000	12.697	0.000		0	N.D.		
34) Trichloroethylene	12.899	12.899	1.037	95	122	N.D.		
35) 1,2-Dichloropropane	0.000	13.172	0.000		0	N.D.		
36) Methylcyclohexane	0.000	13.184	0.000		0	N.D.		
37) Dibromomethane	0.000	13.314	0.000		0	N.D.		

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y539.D
Acq On : 13 Feb 2010 1:06 am
Operator : CDS1
InstName : VOA2
Sample : |246434008|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Feb 15 07:44:16 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
38) Bromodichloromethane	0.000	13.480	0.000		0	N.D.	
39) 2-Chloroethylvinyl ether	0.000	13.800	0.000		0	N.D.	
40) cis-1,3-Dichloropropylene	0.000	14.002	0.000		0	N.D.	
42) 4-Methyl-2-pentanone	0.000	14.144	0.000		0	N.D.	
44) Toluene	14.429	14.429	0.903	91	3090	N.D.	
45) trans-1,3-Dichloroprop...	0.000	14.618	0.000		0	N.D.	
46) 1,1,2-Trichloroethane	0.000	14.844	0.000		0	N.D.	
47) 2-Hexanone	0.000	15.069	0.000		0	N.D.	
48) 1,3-Dichloropropane	0.000	15.045	0.000		0	N.D.	
49) Tetrachloroethylene	0.000	15.069	0.000		0	N.D.	
50) Dibromochloromethane	0.000	15.318	0.000		0	N.D.	
51) 1,2-Dibromoethane	0.000	15.472	0.000		0	N.D.	
52) Chlorobenzene	16.018	16.006	1.003	112	140	N.D.	
53) 1,1,1,2-Tetrachloroethane	0.000	16.077	0.000		0m	N.D.	d
54) Ethylbenzene	0.000	16.101	0.000		0	N.D.	
55) m,p-Xylenes	0.000	16.219	0.000		0	N.D.	
56) o-Xylene	0.000	16.658	0.000		0	N.D.	
57) Styrene	16.658	16.658	1.043	104	263	N.D.	
59) Bromoform	0.000	16.895	0.000		0	N.D.	
60) Isopropylbenzene	17.050	17.038	0.924	105	342	N.D.	
62) 1,1,2,2-Tetrachloroethane	0.000	17.310	0.000		0	N.D.	
63) 1,2,3-Trichloropropane	0.000	17.393	0.000		0	N.D.	
64) Bromobenzene	17.429	17.429	0.944	156	124	N.D.	
65) n-Propylbenzene	17.477	17.476	0.947	91	217	N.D.	
66) 1,3,5-Trimethylbenzene	0.000	17.642	0.000		0	N.D.	
67) 2-Chlorotoluene	0.000	17.607	0.000		0	N.D.	
68) 4-Chlorotoluene	17.714	17.714	0.960	91	886	N.D.	
69) tert-Butylbenzene	0.000	18.010	0.000		0	N.D.	
70) 1,2,4-Trimethylbenzene	18.046	18.057	0.978	105	331	N.D.	
71) sec-Butylbenzene	0.000	18.235	0.000		0	N.D.	
72) 4-Isopropyltoluene	18.366	18.366	0.995	119	489	N.D.	
73) 1,3-Dichlorobenzene	18.402	18.401	0.997	146	132	N.D.	
74) 1,4-Dichlorobenzene	18.496	18.496	1.002	146	729	N.D.	
75) n-Butylbenzene	0.000	18.805	0.000		0	N.D.	
76) 1,2-Dichlorobenzene	18.911	18.899	1.024	146	254	N.D.	
77) 1,2-Dibromo-3-chloropr...	0.000	19.718	0.000		0	N.D.	
78) 1,2,4-Trichlorobenzene	20.702	20.690	1.121	180	280	N.D.	
79) Hexachlorobutadiene	0.000	20.868	0.000		0	N.D.	
80) Naphthalene	21.022	21.022	1.139	128	1159	N.D.	
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156	180	183	N.D.	
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.	
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.	
85) Acrolein	0.000	7.646	0.000		0	N.D.	
86) Trichlorotrifluoroethane	0.000	7.930	0.000		0	N.D.	
87) Isopropyl Alcohol	8.085	8.191	0.650	45	1617	N.D.	
88) Allyl chloride	0.000	8.559	0.000		0	N.D.	
89) tert-Butyl Alcohol	8.938	8.938	0.719	59	138	N.D.	
90) Acrylonitrile	0.000	9.164	0.000		0	N.D.	
91) Isopropyl ether	0.000	10.077	0.000		0	N.D.	
92) 2-Chloro-1,3-butadiene	0.000	10.124	0.000		0	N.D.	
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.	
94) Ethyl acetate	10.860	10.919	0.873	43	242	N.D.	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y539.D
Acq On : 13 Feb 2010 1:06 am
Operator : CDS1
InstName : VOA2
Sample : |246434008|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Feb 15 07:44:16 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics.8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

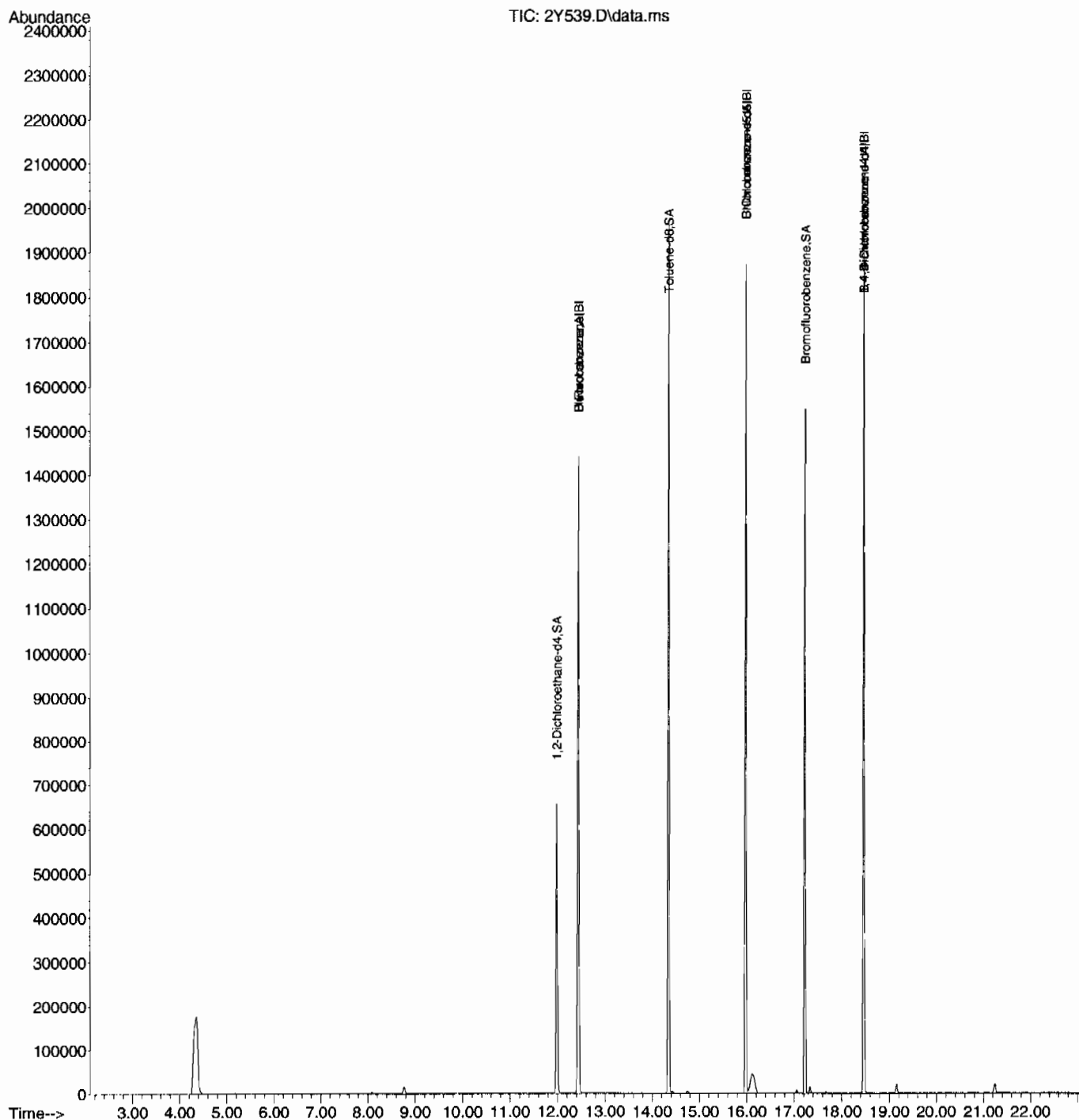
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	0.000	10.907	0.000		0	N.D.	
96) Methacrylonitrile	0.000	11.144	0.000		0	N.D.	
97) Tetrahydrofuran	11.286	11.275	0.908	42	290	N.D.	
98) Isobutyl alcohol	0.000	11.856	0.000		0	N.D.	
99) Methyl tert-amyl ether	0.000	12.211	0.000		0	N.D.	
100) Methyl methacrylate	0.000	13.243	0.000		0	N.D.	
101) 1,4-Dioxane	0.000	13.314	0.000		0	N.D.	
102) 2-Nitropropane	0.000	13.729	0.000		0	N.D.	
104) Ethyl methacrylate	0.000	14.678	0.000		0	N.D.	
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	17.062	17.073	0.924	53	347	N.D.	
108) Cyclohexanone	0.000	17.156	0.000		0	N.D.	
109) trans-1,4-Dichloro-2-b...	17.334	17.370	0.939	53	115	N.D.	
110) Pentachloroethane	0.000	18.058	0.000		0	N.D.	
111) Benzyl chloride	18.615	18.603	1.008	91	271	N.D.	
112) bis(2-Chloroisopropyl)...	19.149	19.018	1.037	45	1332	N.D.	

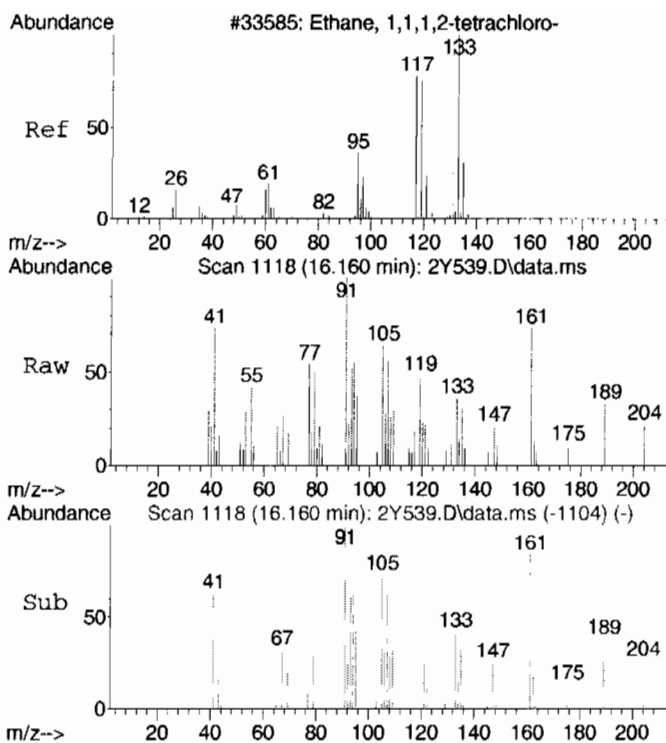
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y539.D
Acq On : 13 Feb 2010 1:06 am
Operator : CDS1
InstName : VOA2
Sample : |246434008|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 39 Sample Multiplier: 1

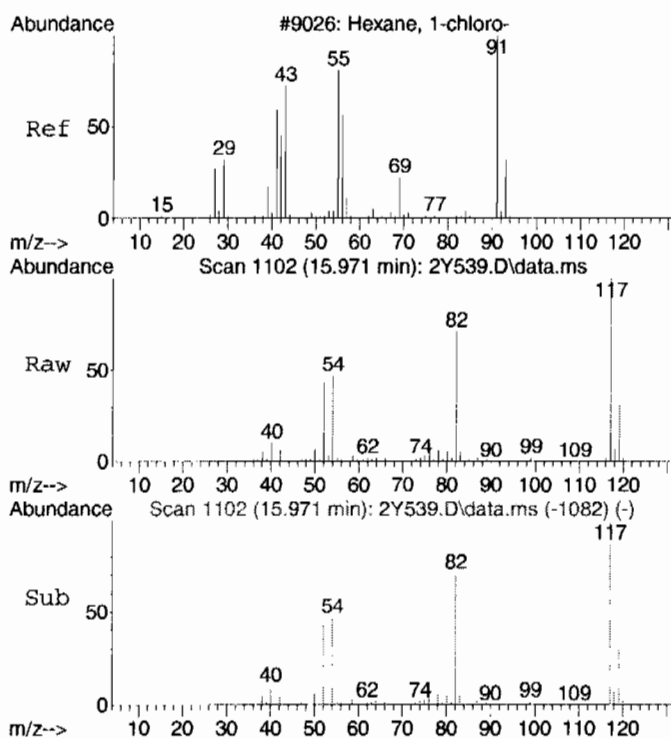
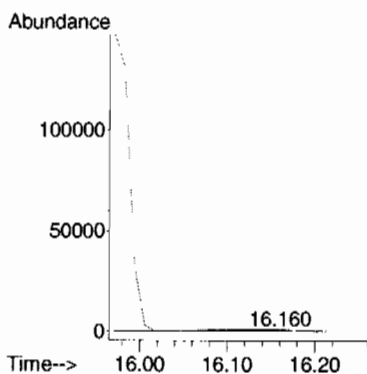
Quant Time: Feb 15 07:44:16 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE





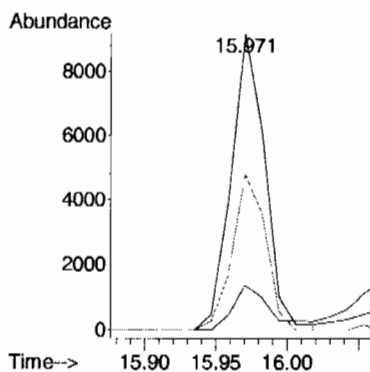
#53 BEFORE analyst DELETION
 1,1,1,2-Tetrachloroethane
 Concen: 0.35 ug/L
 RT: 16.160 min Scan# 1118
 Delta R.T. 0.083 min
 Lab File: 2Y539.D
 Acq: 13 Feb 2010 1:06 am

Tgt Ion	Ratio	Lower	Upper
131	100		
133	412.9	66.1	126.1#
119	0.0	29.4	89.4#



#106 BEFORE analyst DELETION
 1-Chlorohexane
 Concen: 2.39 ug/L
 RT: 15.971 min Scan# 1102
 Delta R.T. 0.060 min
 Lab File: 2Y539.D
 Acq: 13 Feb 2010 1:06 am

Tgt Ion	Ratio	Lower	Upper
55	100		
91	17.2	66.2	126.2#
56	51.8	26.7	86.7



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y539.D
Acq On : 13 Feb 2010 1:06 am
Operator : CDS1
Sample : |246434008|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 39 Sample Multiplier: 1

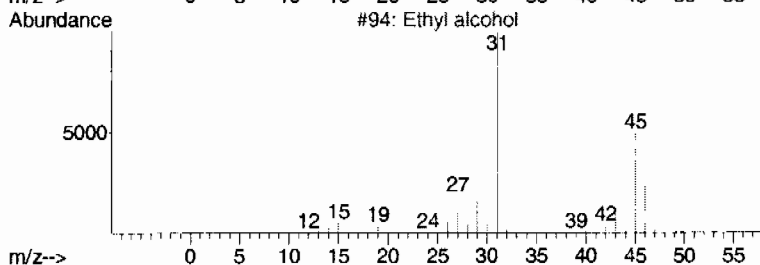
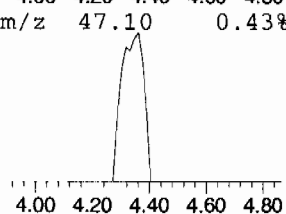
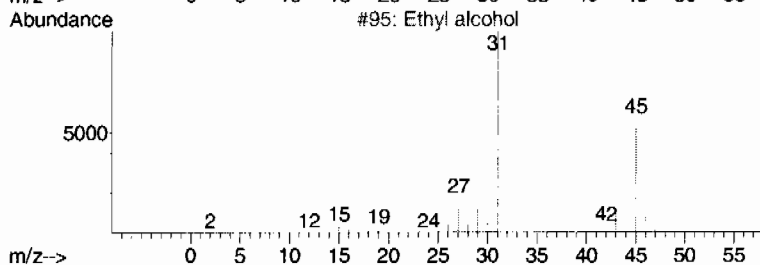
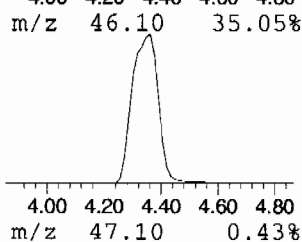
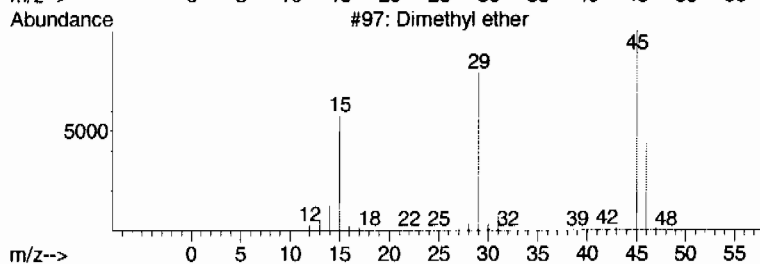
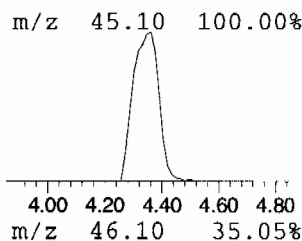
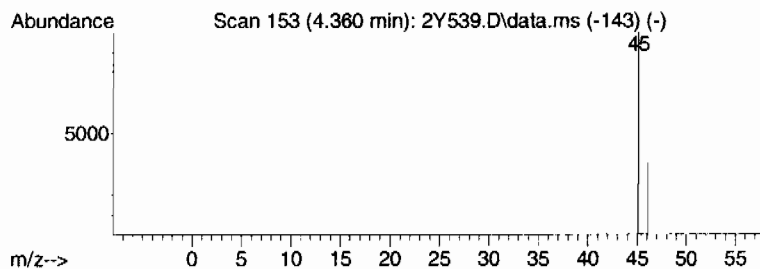
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.360	20.35 ug/L	1112290	Fluorobenzene	12.437

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dimethyl ether	46	C2H6O	000115-10-6	5
2		Ethyl alcohol	46	C2H6O	000064-17-5	4
3		Ethyl alcohol	46	C2H6O	000064-17-5	4
4		Ethyl alcohol	46	C2H6O	000064-17-5	4
5		Formic acid	46	CH2O2	000064-18-6	3



Tentatively Identified Compound (LSC) summary
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y539.D
Acq On : 13 Feb 2010 1:06 am
Operator : CDS1
Sample : |246434008|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown	4.360	20.4	ug/L	1112290	1	12.437	2733370	50.0

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434009	Date Received: 02/06/2010 09:15	%Moisture: 6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8357	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/13/2010 01:35	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:12	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y540.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.06	ug/kg	0.362	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.319	1.06
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.319	1.06
74-83-9	Bromomethane	U	1.06	ug/kg	0.319	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.319	1.06
75-69-4	Trichlorofluoromethane	U	1.06	ug/kg	0.319	1.06
67-64-1	Acetone	U	5.32	ug/kg	1.77	5.32
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.319	1.06
74-88-4	Iodomethane	U	5.32	ug/kg	1.70	5.32
75-09-2	Methylene chloride	U	5.32	ug/kg	2.13	5.32
75-15-0	Carbon disulfide	U	5.32	ug/kg	1.33	5.32
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.319	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.319	1.06
78-93-3	2-Butanone	U	5.32	ug/kg	1.59	5.32
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.319	1.06
594-20-7	2,2-Dichloropropane	U	1.06	ug/kg	0.319	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.319	1.06
74-97-5	Bromochloromethane	U	1.06	ug/kg	0.351	1.06
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.319	1.06
563-58-6	1,1-Dichloropropene	U	1.06	ug/kg	0.319	1.06
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.319	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.319	1.06
71-43-2	Benzene	U	1.06	ug/kg	0.319	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.351	1.06
78-87-5	1,2-Dichloropropane	U	1.06	ug/kg	0.319	1.06
75-27-4	Bromodichloromethane	U	1.06	ug/kg	0.319	1.06
74-95-3	Dibromomethane	U	1.06	ug/kg	0.319	1.06
108-10-1	4-Methyl-2-pentanone	U	5.32	ug/kg	1.33	5.32
10061-01-5	cis-1,3-Dichloropropylene	U	1.06	ug/kg	0.319	1.06
108-88-3	Toluene	U	1.06	ug/kg	0.319	1.06
10061-02-6	trans-1,3-Dichloropropylene	U	1.06	ug/kg	0.319	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.319	1.06
591-78-6	2-Hexanone	U	5.32	ug/kg	1.59	5.32
142-28-9	1,3-Dichloropropane	U	1.06	ug/kg	0.319	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.319	1.06
124-48-1	Dibromochloromethane	U	1.06	ug/kg	0.319	1.06
106-93-4	1,2-Dibromoethane	U	1.06	ug/kg	0.319	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.319	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434009
 Client ID: RE15-10-8357
 Batch ID: 952586
 Run Date: 02/13/2010 01:35
 Prep Date: 02/12/2010 11:12
 Data File: 021210V2.b\2Y540.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.1
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 6
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: I
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.319	1.06
179601-23-1	m,p-Xylenes	U	2.13	ug/kg	0.319	2.13
95-47-6	o-Xylene	U	1.06	ug/kg	0.319	1.06
100-42-5	Styrene	U	1.06	ug/kg	0.319	1.06
75-25-2	Bromoform	U	1.06	ug/kg	0.319	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.319	1.06
96-18-4	1,2,3-Trichloropropane	U	1.06	ug/kg	0.319	1.06
108-86-1	Bromobenzene	U	1.06	ug/kg	0.319	1.06
103-65-1	n-Propylbenzene	U	1.06	ug/kg	0.319	1.06
95-49-8	2-Chlorotoluene	U	1.06	ug/kg	0.319	1.06
98-82-8	Isopropylbenzene	U	1.06	ug/kg	0.319	1.06
108-67-8	1,3,5-Trimethylbenzene	U	1.06	ug/kg	0.319	1.06
106-43-4	4-Chlorotoluene	U	1.06	ug/kg	0.319	1.06
98-06-6	tert-Butylbenzene	U	1.06	ug/kg	0.319	1.06
95-63-6	1,2,4-Trimethylbenzene	U	1.06	ug/kg	0.319	1.06
135-98-8	sec-Butylbenzene	U	1.06	ug/kg	0.319	1.06
99-87-6	4-Isopropyltoluene	U	1.06	ug/kg	0.319	1.06
541-73-1	1,3-Dichlorobenzene	U	1.06	ug/kg	0.319	1.06
106-46-7	1,4-Dichlorobenzene	U	1.06	ug/kg	0.319	1.06
104-51-8	n-Butylbenzene	U	1.06	ug/kg	0.319	1.06
96-12-8	1,2-Dibromo-3-chloropropane	U	1.06	ug/kg	0.319	1.06
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.32	ug/kg	1.70	5.32
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.06	ug/kg	0.319	1.06
95-50-1	1,2-Dichlorobenzene	U	1.06	ug/kg	0.319	1.06

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	21.2	ug/kg	0	J

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y540.D
Acq On : 13 Feb 2010 1:35 am
Operator : CDS1
InstName : VOA2
Sample : |246434009|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Feb 15 07:44:41 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev (Min)
1) Fluorobenzene	12.437	12.437	1.000	96	1095942	50.00	ug/L	0.00
41) Chlorobenzene-d5	15.970	15.970	1.000	117	802644	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	449867	50.00	ug/L	0.00
82) B Fluorobenzene	12.437	12.437	1.000	96	1095860	50.00	ug/L	0.00
103) B Chlorobenzene-d5	15.970	15.971	1.000	117	802600	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	450014	50.00	ug/L	0.00
System Monitoring Compounds								Dev (Min)
29) 1,2-Dichloroethane-d4	11.986	11.986	0.964	65	567962	55.16	ug/L	0.00
Spiked Amount 50.000	Range 66	- 134	Recovery	=	110.32%			
43) Toluene-d8	14.346	14.346	0.898	98	1080681	50.36	ug/L	0.00
Spiked Amount 50.000	Range 71	- 128	Recovery	=	100.72%			
61) Bromofluorobenzene	17.227	17.227	0.933	95	515338	53.38	ug/L	0.00
Spiked Amount 50.000	Range 65	- 130	Recovery	=	106.76%			
Target Compounds								QValue
2) Dichlorodifluoromethane	0.000	4.702	0.000		0	N.D.		
3) Chloromethane	0.000	4.999	0.000		0	N.D.		
4) Vinyl chloride	5.251	5.266	0.422	62	736	N.D.		
5) Bromomethane	0.000	5.980	0.000		0	N.D.		
6) Chloroethane	0.000	6.223	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000	6.839	0.000		0	N.D.		
8) Ethyl ether	0.000	7.409	0.000		0	N.D.		
9) Acetone	7.978	7.930	0.641	43	6067	N.D.		
10) 1,1-Dichloroethylene	0.000	7.883	0.000		0	N.D.		
11) Iodomethane	0.000	8.167	0.000		0	N.D.		
12) Acetonitrile	0.000	8.452	0.000		0	N.D.		
13) Methyl acetate	0.000	8.571	0.000		0	N.D.		
14) Carbon disulfide	8.310	8.322	0.668	76	734	N.D.		
15) Methylene chloride	8.760	8.772	0.704	84	8918	N.D.		
16) tert-Butyl methyl ether	0.000	9.282	0.000		0	N.D.		
17) trans-1,2-Dichloroethy...	0.000	9.270	0.000		0	N.D.		
18) Vinyl acetate	0.000	10.017	0.000		0	N.D.		
19) 1,1-Dichloroethane	0.000	9.958	0.000		0	N.D.		
20) 2-Butanone	10.859	10.836	0.873	43	807	N.D.		
21) cis-1,2-Dichloroethylene	0.000	10.848	0.000		0	N.D.		
22) 2,2-Dichloropropane	0.000	10.871	0.000		0	N.D.		
23) Bromochloromethane	0.000	11.203	0.000		0	N.D.		
24) Chloroform	0.000	11.298	0.000		0	N.D.		
25) 1,1,1-Trichloroethane	0.000	11.606	0.000		0	N.D.		
26) Cyclohexane	0.000	11.713	0.000		0	N.D.		
27) 1,1-Dichloropropene	0.000	11.820	0.000		0	N.D.		
28) Carbon tetrachloride	0.000	11.844	0.000		0	N.D.		
30) 1,2-Dichloroethane	0.000	12.093	0.000		0	N.D.		
31) Benzene	12.093	12.093	0.972	78	281	N.D.		
32) Cyclohexene	0.000	12.247	0.000		0	N.D.		
33) n-Butyl alcohol	0.000	12.697	0.000		0	N.D.		
34) Trichloroethylene	12.887	12.899	1.036	95	253	N.D.		
35) 1,2-Dichloropropane	0.000	13.172	0.000		0	N.D.		
36) Methylcyclohexane	0.000	13.184	0.000		0	N.D.		
37) Dibromomethane	0.000	13.314	0.000		0	N.D.		

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y540.D
Acq On : 13 Feb 2010 1:35 am
Operator : CDS1
InstName : VOA2
Sample : |246434009|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Feb 15 07:44:41 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
38) Bromodichloromethane	0.000	13.480	0.000		0	N.D.	
39) 2-Chloroethylvinyl ether	0.000	13.800	0.000		0	N.D.	
40) cis-1,3-Dichloropropylene	0.000	14.002	0.000		0	N.D.	
42) 4-Methyl-2-pentanone	0.000	14.144	0.000		0	N.D.	
44) Toluene	14.417	14.429	0.903	91	2186	N.D.	
45) trans-1,3-Dichloroprop...	0.000	14.618	0.000		0	N.D.	
46) 1,1,2-Trichloroethane	0.000	14.844	0.000		0	N.D.	
47) 2-Hexanone	0.000	15.069	0.000		0	N.D.	
48) 1,3-Dichloropropane	0.000	15.045	0.000		0	N.D.	
49) Tetrachloroethylene	0.000	15.069	0.000		0	N.D.	
50) Dibromochloromethane	0.000	15.318	0.000		0	N.D.	
51) 1,2-Dibromoethane	0.000	15.472	0.000		0	N.D.	
52) Chlorobenzene	16.006	16.006	1.002	112	247	N.D.	
53) 1,1,1,2-Tetrachloroethane	0.000	16.077	0.000		0	N.D.	
54) Ethylbenzene	16.208	16.101	1.015	91	1271	N.D.	
55) m,p-Xylenes	16.208	16.219	1.015	106	409	N.D.	
56) o-Xylene	0.000	16.658	0.000		0	N.D.	
57) Styrene	16.658	16.658	1.043	104	319	N.D.	
59) Bromoform	0.000	16.895	0.000		0	N.D.	
60) Isopropylbenzene	17.049	17.038	0.924	105	772	N.D.	
62) 1,1,2,2-Tetrachloroethane	0.000	17.310	0.000		0	N.D.	
63) 1,2,3-Trichloropropane	0.000	17.393	0.000		0	N.D.	
64) Bromobenzene	0.000	17.429	0.000		0	N.D.	
65) n-Propylbenzene	17.476	17.476	0.947	91	114	N.D.	
66) 1,3,5-Trimethylbenzene	17.642	17.642	0.956	105	179	N.D.	
67) 2-Chlorotoluene	0.000	17.607	0.000		0	N.D.	
68) 4-Chlorotoluene	17.714	17.714	0.960	91	689	N.D.	
69) tert-Butylbenzene	18.105	18.010	0.981	134	127	N.D.	
70) 1,2,4-Trimethylbenzene	18.057	18.057	0.978	105	329	N.D.	
71) sec-Butylbenzene	0.000	18.235	0.000		0	N.D.	
72) 4-Isopropyltoluene	18.366	18.366	0.995	119	489	N.D.	
73) 1,3-Dichlorobenzene	18.401	18.401	0.997	146	274	N.D.	
74) 1,4-Dichlorobenzene	18.496	18.496	1.002	146	691	N.D.	
75) n-Butylbenzene	0.000	18.805	0.000		0	N.D.	
76) 1,2-Dichlorobenzene	18.899	18.899	1.024	146	181	N.D.	
77) 1,2-Dibromo-3-chloropr...	0.000	19.718	0.000		0	N.D.	
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	475	N.D.	
79) Hexachlorobutadiene	0.000	20.868	0.000		0	N.D.	
80) Naphthalene	21.034	21.022	1.139	128	1184	N.D.	
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156	180	116	N.D.	
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.	
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.	
85) Acrolein	0.000	7.646	0.000		0	N.D.	
86) Trichlorotrifluoroethane	0.000	7.930	0.000		0	N.D.	
87) Isopropyl Alcohol	8.096	8.191	0.651	45	762	N.D.	
88) Allyl chloride	0.000	8.559	0.000		0	N.D.	
89) tert-Butyl Alcohol	8.950	8.938	0.720	59	120	N.D.	
90) Acrylonitrile	0.000	9.164	0.000		0	N.D.	
91) Isopropyl ether	0.000	10.077	0.000		0	N.D.	
92) 2-Chloro-1,3-butadiene	0.000	10.124	0.000		0	N.D.	
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.	
94) Ethyl acetate	10.859	10.919	0.873	43	807	N.D.	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y540.D
Acq On : 13 Feb 2010 1:35 am
Operator : CDS1
InstName : VOA2
Sample : |246434009|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Feb 15 07:44:41 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

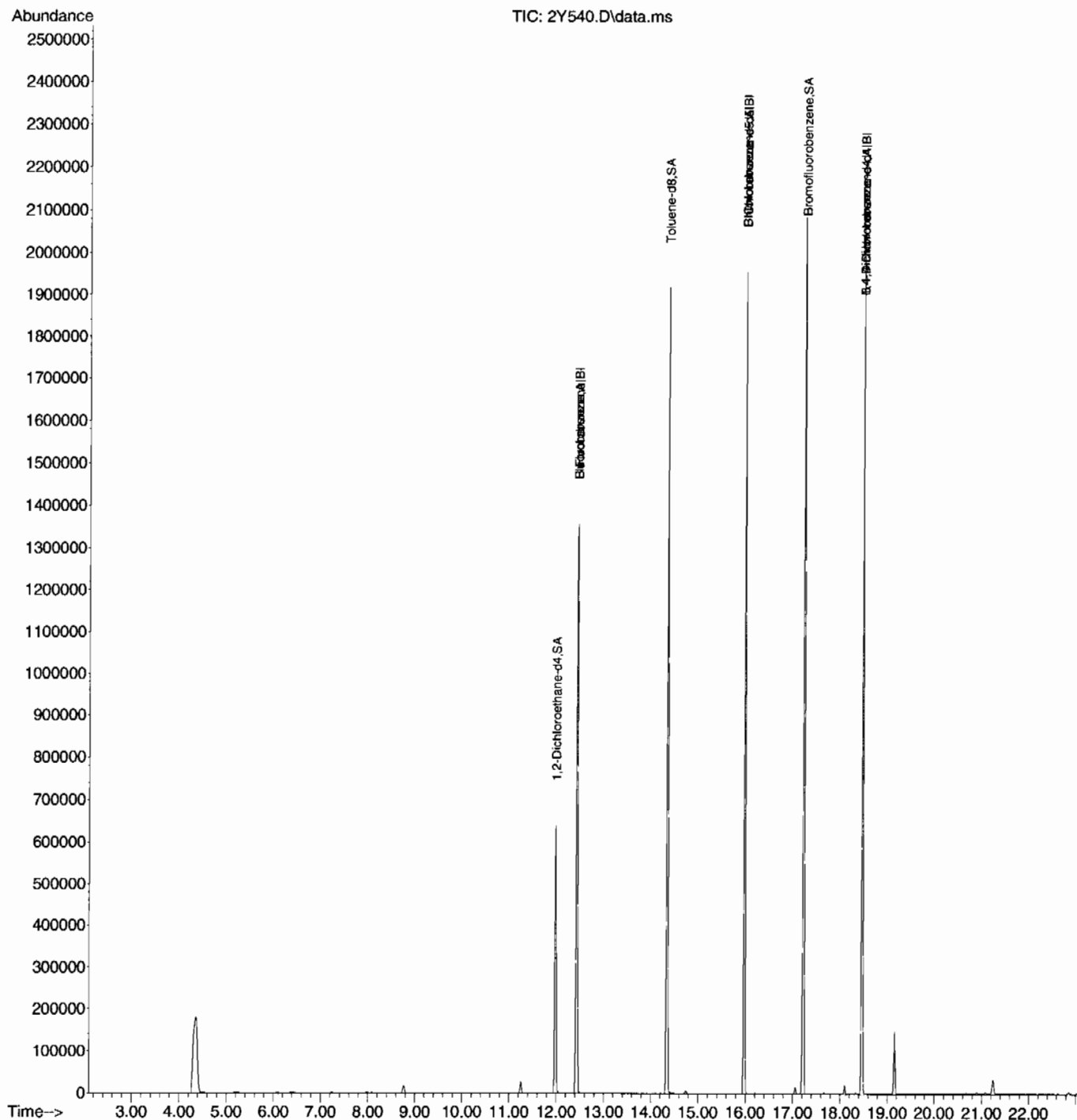
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	0.000	10.907	0.000		0	N.D.	
96) Methacrylonitrile	0.000	11.144	0.000		0	N.D.	
97) Tetrahydrofuran	11.286	11.275	0.908	42	580	N.D.	
98) Isobutyl alcohol	11.974	11.856	0.963	41	120	N.D.	
99) Methyl tert-amyl ether	0.000	12.211	0.000		0	N.D.	
100) Methyl methacrylate	0.000	13.243	0.000		0	N.D.	
101) 1,4-Dioxane	0.000	13.314	0.000		0	N.D.	
102) 2-Nitropropane	0.000	13.729	0.000		0	N.D.	
104) Ethyl methacrylate	0.000	14.678	0.000		0	N.D.	
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	17.049	17.073	0.924	53	744	N.D.	
108) Cyclohexanone	0.000	17.156	0.000		0	N.D.	
109) trans-1,4-Dichloro-2-b...	0.000	17.370	0.000		0	N.D.	
110) Pentachloroethane	0.000	18.058	0.000		0	N.D.	
111) Benzyl chloride	18.461	18.603	1.000	91	1480	N.D.	
112) bis(2-Chloroisopropyl)...	0.000	19.018	0.000		0m	N.D.	d

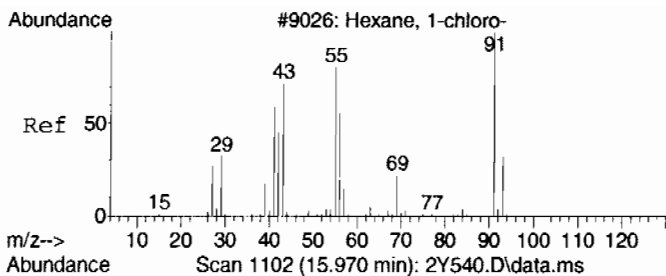
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y540.D
Acq On : 13 Feb 2010 1:35 am
Operator : CDS1
InstName : VOA2
Sample : |246434009|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 40 Sample Multiplier: 1

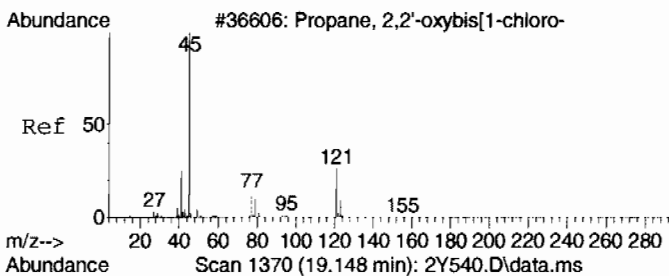
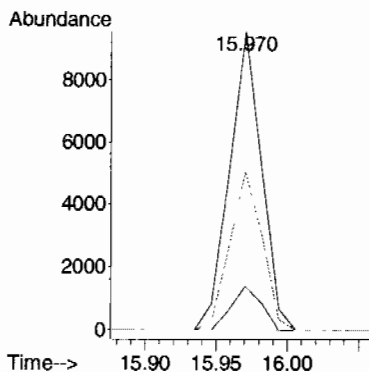
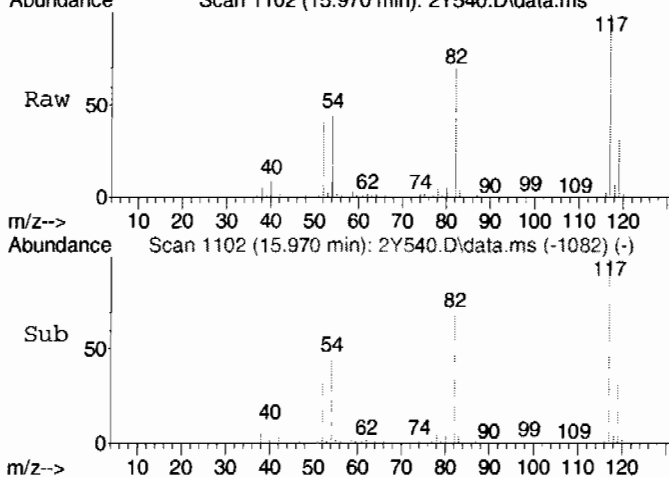
Quant Time: Feb 15 07:44:41 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE





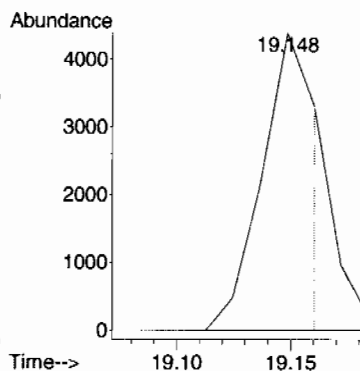
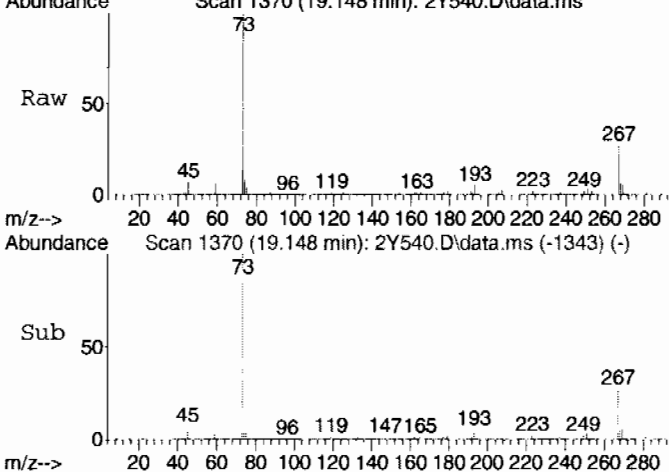
#106 BEFORE analyst DELETION
1-Chlorohexane
Concen: 2.35 ug/L
RT: 15.970 min Scan# 1102
Delta R.T. 0.059 min
Lab File: 2Y540.D
Acq: 13 Feb 2010 1:35 am

Tgt Ion	Ratio	Lower	Upper
55	100		
91	13.4	66.2	126.2#
56	53.1	26.7	86.7



#112 BEFORE analyst DELETION
bis(2-Chloroisopropyl)ether
Concen: 2.02 ug/L
RT: 19.148 min Scan# 1370
Delta R.T. 0.130 min
Lab File: 2Y540.D
Acq: 13 Feb 2010 1:35 am

Tgt Ion	Ratio	Lower	Upper
45	100		
121	0.0	0.0	50.1



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y540.D
Acq On : 13 Feb 2010 1:35 am
Operator : CDS1
Sample : |246434009|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 40 Sample Multiplier: 1

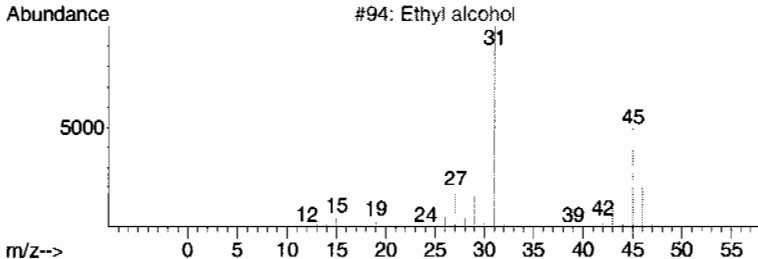
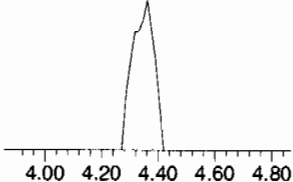
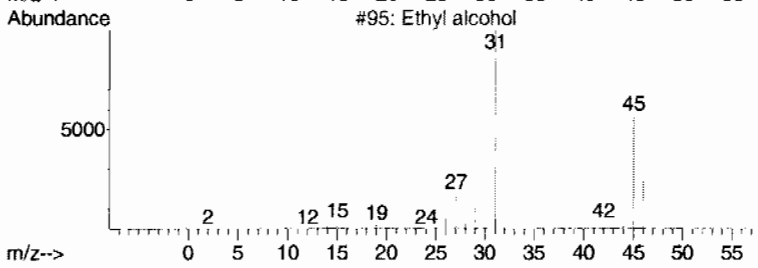
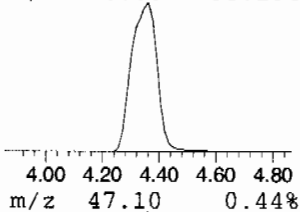
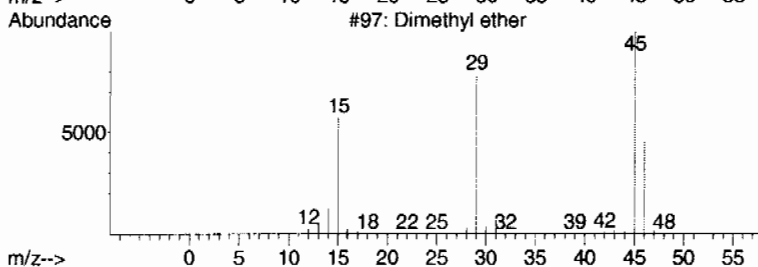
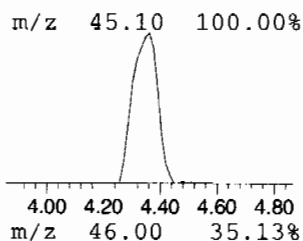
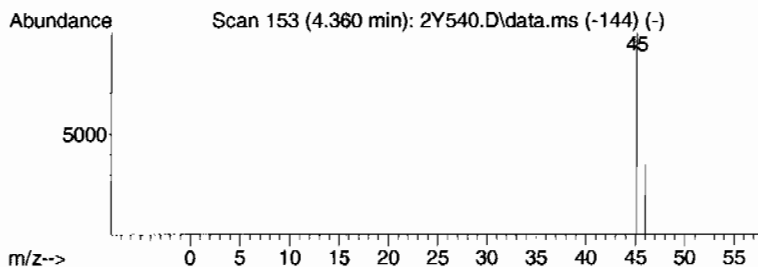
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.360	19.95 ug/L	1110360	Fluorobenzene	12.437

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Dimethyl ether	46	C2H6O	000115-10-6	5
2			Ethyl alcohol	46	C2H6O	000064-17-5	4
3			Ethyl alcohol	46	C2H6O	000064-17-5	4
4			Ethyl alcohol	46	C2H6O	000064-17-5	4
5			Formic acid	46	CH2O2	000064-18-6	3



Tentatively Identified Compound (LSC) summary
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y540.D
Acq On : 13 Feb 2010 1:35 am
Operator : CDS1
Sample : |246434009|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 40 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown	4.360	19.9	ug/L	1110360	1	12.437	2783320	50.0

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434012	Date Received: 02/06/2010 09:15	%Moisture: 6
	Client: LANL.010	Project: LANL01004
Client ID: RE15-10-8339	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/13/2010 03:02	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:15	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y543.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.06	ug/kg	0.362	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.319	1.06
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.319	1.06
74-83-9	Bromomethane	U	1.06	ug/kg	0.319	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.319	1.06
75-69-4	Trichlorofluoromethane	U	1.06	ug/kg	0.319	1.06
67-64-1	Acetone		20.8	ug/kg	1.77	5.32
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.319	1.06
74-88-4	Iodomethane	U	5.32	ug/kg	1.70	5.32
75-09-2	Methylene chloride	U	5.32	ug/kg	2.13	5.32
75-15-0	Carbon disulfide	U	5.32	ug/kg	1.33	5.32
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.319	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.319	1.06
78-93-3	2-Butanone	U	5.32	ug/kg	1.60	5.32
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.319	1.06
594-20-7	2,2-Dichloropropane	U	1.06	ug/kg	0.319	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.319	1.06
74-97-5	Bromochloromethane	U	1.06	ug/kg	0.351	1.06
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.319	1.06
563-58-6	1,1-Dichloropropene	U	1.06	ug/kg	0.319	1.06
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.319	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.319	1.06
71-43-2	Benzene	U	1.06	ug/kg	0.319	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.351	1.06
78-87-5	1,2-Dichloropropane	U	1.06	ug/kg	0.319	1.06
75-27-4	Bromodichloromethane	U	1.06	ug/kg	0.319	1.06
74-95-3	Dibromomethane	U	1.06	ug/kg	0.319	1.06
108-10-1	4-Methyl-2-pentanone	U	5.32	ug/kg	1.33	5.32
10061-01-5	cis-1,3-Dichloropropylene	U	1.06	ug/kg	0.319	1.06
108-88-3	Toluene	J	0.362	ug/kg	0.319	1.06
10061-02-6	trans-1,3-Dichloropropylene	U	1.06	ug/kg	0.319	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.319	1.06
591-78-6	2-Hexanone	U	5.32	ug/kg	1.60	5.32
142-28-9	1,3-Dichloropropane	U	1.06	ug/kg	0.319	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.319	1.06
124-48-1	Dibromochloromethane	U	1.06	ug/kg	0.319	1.06
106-93-4	1,2-Dibromoethane	U	1.06	ug/kg	0.319	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.319	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434012	Date Received: 02/06/2010 09:15	%Moisture: 6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8339	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/13/2010 03:02	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 11:15	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y543.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.319	1.06
179601-23-1	m,p-Xylenes	U	2.13	ug/kg	0.319	2.13
95-47-6	o-Xylene	U	1.06	ug/kg	0.319	1.06
100-42-5	Styrene	U	1.06	ug/kg	0.319	1.06
75-25-2	Bromoform	U	1.06	ug/kg	0.319	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.319	1.06
96-18-4	1,2,3-Trichloropropane	U	1.06	ug/kg	0.319	1.06
108-86-1	Bromobenzene	U	1.06	ug/kg	0.319	1.06
103-65-1	n-Propylbenzene	U	1.06	ug/kg	0.319	1.06
95-49-8	2-Chlorotoluene	U	1.06	ug/kg	0.319	1.06
98-82-8	Isopropylbenzene	U	1.06	ug/kg	0.319	1.06
108-67-8	1,3,5-Trimethylbenzene	U	1.06	ug/kg	0.319	1.06
106-43-4	4-Chlorotoluene	U	1.06	ug/kg	0.319	1.06
98-06-6	tert-Butylbenzene	U	1.06	ug/kg	0.319	1.06
95-63-6	1,2,4-Trimethylbenzene	U	1.06	ug/kg	0.319	1.06
135-98-8	sec-Butylbenzene	U	1.06	ug/kg	0.319	1.06
99-87-6	4-Isopropyltoluene	J	0.553	ug/kg	0.319	1.06
541-73-1	1,3-Dichlorobenzene	U	1.06	ug/kg	0.319	1.06
106-46-7	1,4-Dichlorobenzene	U	1.06	ug/kg	0.319	1.06
104-51-8	n-Butylbenzene	U	1.06	ug/kg	0.319	1.06
96-12-8	1,2-Dibromo-3-chloropropane	U	1.06	ug/kg	0.319	1.06
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.32	ug/kg	1.70	5.32
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.06	ug/kg	0.319	1.06
95-50-1	1,2-Dichlorobenzene	U	1.06	ug/kg	0.319	1.06

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	24.6	ug/kg	0	J
	unknown hydrocarbon	17.06	17.8	ug/kg	0	J
	unknown hydrocarbon	18.11	17.5	ug/kg	0	J

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y543.D
Acq On : 13 Feb 2010 3:02 am
Operator : CDS1
InstName : VOA2
Sample : |246434012|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Feb 15 07:47:05 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev (Min)
1) Fluorobenzene	12.437	12.437	1.000	96	1067564	50.00	ug/L	0.00
41) Chlorobenzene-d5	15.970	15.970	1.000	117	790266	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	463426	50.00	ug/L	0.00
82) B Fluorobenzene	12.437	12.437	1.000	96	1067441	50.00	ug/L	0.00
103) B Chlorobenzene-d5	15.970	15.971	1.000	117	790266	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	463593	50.00	ug/L	0.00
System Monitoring Compounds								Dev (Min)
29) 1,2-Dichloroethane-d4	11.986	11.986	0.964	65	549834	54.82	ug/L	0.00
Spiked Amount 50.000	Range 66	- 134	Recovery	=	109.64%			
43) Toluene-d8	14.346	14.346	0.898	98	1049319	49.66	ug/L	0.00
Spiked Amount 50.000	Range 71	- 128	Recovery	=	99.32%			
61) Bromofluorobenzene	17.227	17.227	0.933	95	507786	51.06	ug/L	0.00
Spiked Amount 50.000	Range 65	- 130	Recovery	=	102.12%			
Target Compounds								QValue
2) Dichlorodifluoromethane	0.000	4.702	0.000		0	N.D.		
3) Chloromethane	4.999	4.999	0.402	50	280	N.D.		
4) Vinyl chloride	5.251	5.266	0.422	62	827	N.D.		
5) Bromomethane	0.000	5.980	0.000		0	N.D.		
6) Chloroethane	0.000	6.223	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000	6.839	0.000		0	N.D.		
8) Ethyl ether	0.000	7.409	0.000		0	N.D.		
9) Acetone	7.942	7.930	0.639	43	83913	19.54	ug/L	95
10) 1,1-Dichloroethylene	0.000	7.883	0.000		0	N.D.		
11) Iodomethane	0.000	8.167	0.000		0	N.D.		
12) Acetonitrile	0.000	8.452	0.000		0	N.D.		
13) Methyl acetate	0.000	8.571	0.000		0	N.D.		
14) Carbon disulfide	8.310	8.322	0.668	76	415	N.D.		
15) Methylene chloride	8.772	8.772	0.705	84	8335	N.D.		
16) tert-Butyl methyl ether	0.000	9.282	0.000		0	N.D.		
17) trans-1,2-Dichloroethy...	0.000	9.270	0.000		0	N.D.		
18) Vinyl acetate	0.000	10.017	0.000		0	N.D.		
19) 1,1-Dichloroethane	0.000	9.958	0.000		0	N.D.		
20) 2-Butanone	10.848	10.836	0.872	43	1712	N.D.		
21) cis-1,2-Dichloroethylene	0.000	10.848	0.000		0	N.D.		
22) 2,2-Dichloropropane	0.000	10.871	0.000		0	N.D.		
23) Bromochloromethane	0.000	11.203	0.000		0	N.D.		
24) Chloroform	0.000	11.298	0.000		0	N.D.		
25) 1,1,1-Trichloroethane	0.000	11.606	0.000		0	N.D.		
26) Cyclohexane	0.000	11.713	0.000		0	N.D.		
27) 1,1-Dichloropropene	0.000	11.820	0.000		0	N.D.		
28) Carbon tetrachloride	0.000	11.844	0.000		0	N.D.		
30) 1,2-Dichloroethane	0.000	12.093	0.000		0	N.D.		
31) Benzene	12.093	12.093	0.972	78	127	N.D.		
32) Cyclohexene	0.000	12.247	0.000		0	N.D.		
33) n-Butyl alcohol	0.000	12.697	0.000		0	N.D.		
34) Trichloroethylene	0.000	12.899	0.000		0	N.D.		
35) 1,2-Dichloropropane	0.000	13.172	0.000		0	N.D.		
36) Methylcyclohexane	0.000	13.184	0.000		0	N.D.		
37) Dibromomethane	0.000	13.314	0.000		0	N.D.		

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y543.D
Acq On : 13 Feb 2010 3:02 am
Operator : CDS1
InstName : VOA2
Sample : |246434012|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Feb 15 07:47:05 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
38) Bromodichloromethane	0.000	13.480	0.000		0	N.D.	
39) 2-Chloroethylvinyl ether	0.000	13.800	0.000		0	N.D.	
40) cis-1,3-Dichloropropylene	0.000	14.002	0.000		0	N.D.	
42) 4-Methyl-2-pentanone	0.000	14.144	0.000		0	N.D.	
44) Toluene	14.429	14.429	0.903	91	6589	0.34 ug/L	95
45) trans-1,3-Dichloroprop...	0.000	14.618	0.000		0	N.D.	
46) 1,1,2-Trichloroethane	0.000	14.844	0.000		0	N.D.	
47) 2-Hexanone	15.081	15.069	0.944	43	127	N.D.	
48) 1,3-Dichloropropane	0.000	15.045	0.000		0	N.D.	
49) Tetrachloroethylene	0.000	15.069	0.000		0	N.D.	
50) Dibromochloromethane	0.000	15.318	0.000		0	N.D.	
51) 1,2-Dibromoethane	0.000	15.472	0.000		0	N.D.	
52) Chlorobenzene	16.018	16.006	1.003	112	112	N.D.	
53) 1,1,1,2-Tetrachloroethane	0.000	16.077	0.000		0	N.D.	
54) Ethylbenzene	16.219	16.101	1.016	91	1200	N.D.	
55) m,p-Xylenes	16.219	16.219	1.016	106	362	N.D.	
56) o-Xylene	0.000	16.658	0.000		0	N.D.	
57) Styrene	16.658	16.658	1.043	104	420	N.D.	
59) Bromoform	0.000	16.895	0.000		0	N.D.	
60) Isopropylbenzene	0.000	17.038	0.000		0m	N.D. d	
62) 1,1,2,2-Tetrachloroethane	0.000	17.310	0.000		0	N.D.	
63) 1,2,3-Trichloropropane	0.000	17.393	0.000		0	N.D.	
64) Bromobenzene	0.000	17.429	0.000		0	N.D.	
65) n-Propylbenzene	17.607	17.476	0.954	91	147	N.D.	
66) 1,3,5-Trimethylbenzene	17.642	17.642	0.956	105	267	N.D.	
67) 2-Chlorotoluene	0.000	17.607	0.000		0	N.D.	
68) 4-Chlorotoluene	17.702	17.714	0.959	91	2507	N.D.	
69) tert-Butylbenzene	0.000	18.010	0.000		0m	N.D. d	
70) 1,2,4-Trimethylbenzene	0.000	18.057	0.000		0m	N.D. d	
71) sec-Butylbenzene	18.342	18.235	0.994	105	2800	N.D.	
72) 4-Isopropyltoluene	18.366	18.366	0.995	119	11181	0.52 ug/L #	13
73) 1,3-Dichlorobenzene	18.401	18.401	0.997	146	338	N.D.	
74) 1,4-Dichlorobenzene	18.496	18.496	1.002	146	699	N.D.	
75) n-Butylbenzene	18.805	18.805	1.019	91	131	N.D.	
76) 1,2-Dichlorobenzene	18.911	18.899	1.024	146	143	N.D.	
77) 1,2-Dibromo-3-chloropr...	0.000	19.718	0.000		0	N.D.	
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	325	N.D.	
79) Hexachlorobutadiene	0.000	20.868	0.000		0	N.D.	
80) Naphthalene	21.022	21.022	1.139	128	1111	N.D.	
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156	180	122	N.D.	
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.	
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.	
85) Acrolein	0.000	7.646	0.000		0	N.D.	
86) Trichlorotrifluoroethane	0.000	7.930	0.000		0	N.D.	
87) Isopropyl Alcohol	8.215	8.191	0.661	45	6042	N.D.	
88) Allyl chloride	0.000	8.559	0.000		0	N.D.	
89) tert-Butyl Alcohol	8.938	8.938	0.719	59	239	N.D.	
90) Acrylonitrile	0.000	9.164	0.000		0	N.D.	
91) Isopropyl ether	0.000	10.077	0.000		0	N.D.	
92) 2-Chloro-1,3-butadiene	0.000	10.124	0.000		0	N.D.	
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.	
94) Ethyl acetate	10.931	10.919	0.879	43	125	N.D.	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y543.D
Acq On : 13 Feb 2010 3:02 am
Operator : CDS1
InstName : VOA2
Sample : |246434012|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Feb 15 07:47:05 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

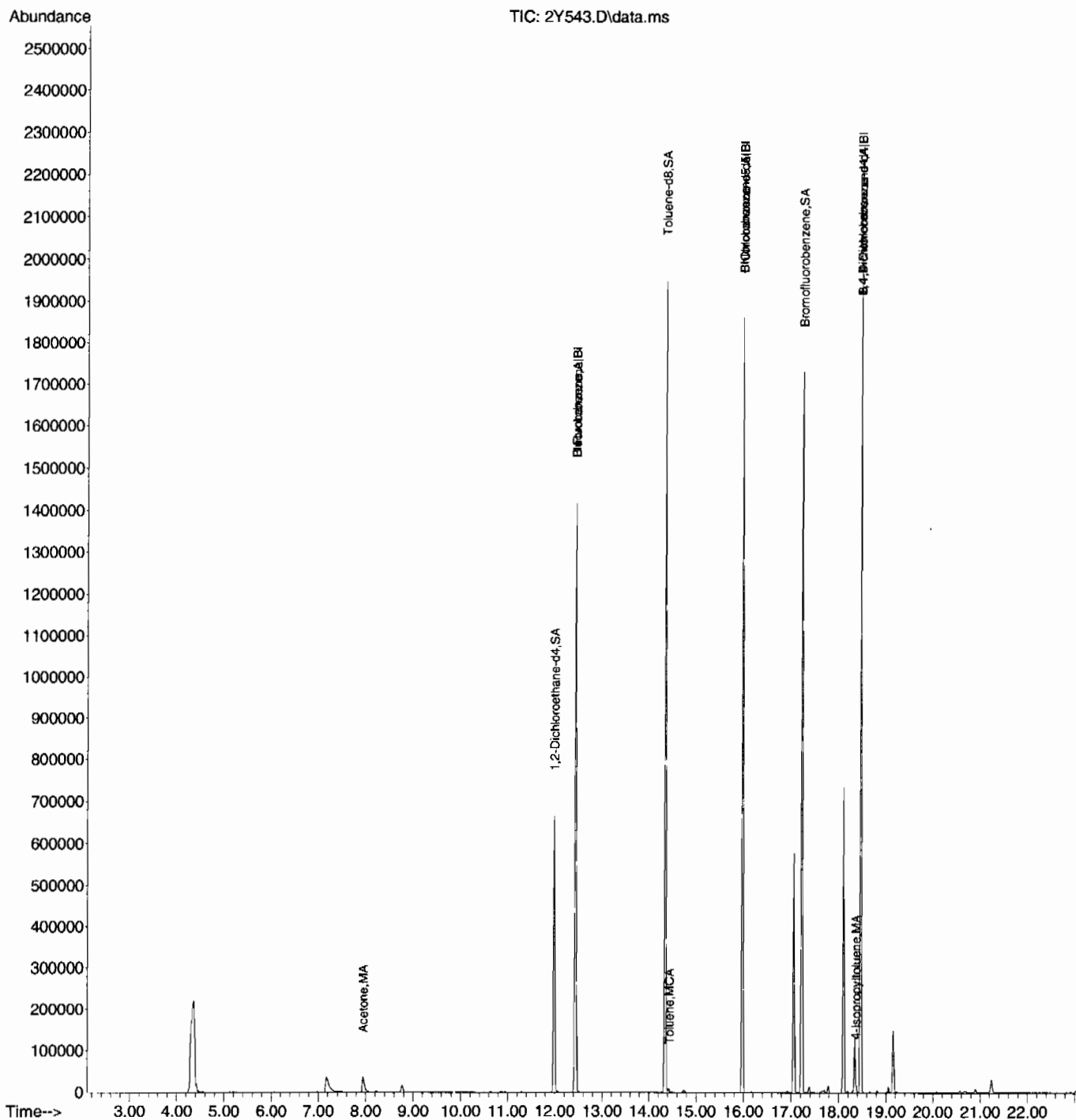
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	0.000	10.907	0.000		0	N.D.	
96) Methacrylonitrile	0.000	11.144	0.000		0	N.D.	
97) Tetrahydrofuran	11.286	11.275	0.908	42	490	N.D.	
98) Isobutyl alcohol	0.000	11.856	0.000		0	N.D.	
99) Methyl tert-amyl ether	0.000	12.211	0.000		0	N.D.	
100) Methyl methacrylate	0.000	13.243	0.000		0	N.D.	
101) 1,4-Dioxane	0.000	13.314	0.000		0	N.D.	
102) 2-Nitropropane	0.000	13.729	0.000		0	N.D.	
104) Ethyl methacrylate	0.000	14.678	0.000		0	N.D.	
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	0.000	17.073	0.000		0m	N.D.	d
108) Cyclohexanone	17.050	17.156	0.924	42	3565	N.D.	
109) trans-1,4-Dichloro-2-b...	17.382	17.370	0.942	53	810	N.D.	
110) Pentachloroethane	0.000	18.058	0.000		0	N.D.	
111) Benzyl chloride	18.662	18.603	1.011	91	1160	N.D.	
112) bis(2-Chloroisopropyl)...	0.000	19.018	0.000		0m	N.D.	d

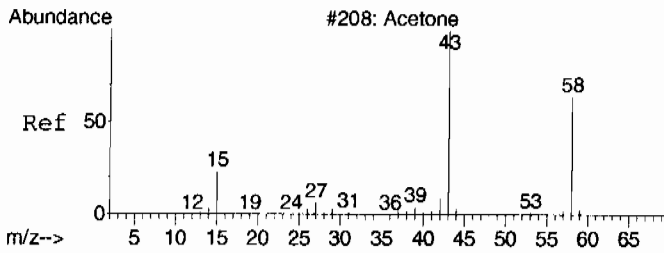
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y543.D
Acq On : 13 Feb 2010 3:02 am
Operator : CDS1
InstName : VOA2
Sample : |246434012|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 43 Sample Multiplier: 1

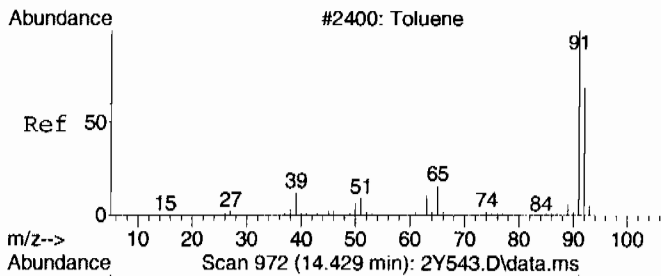
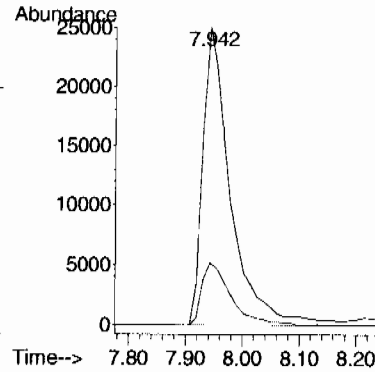
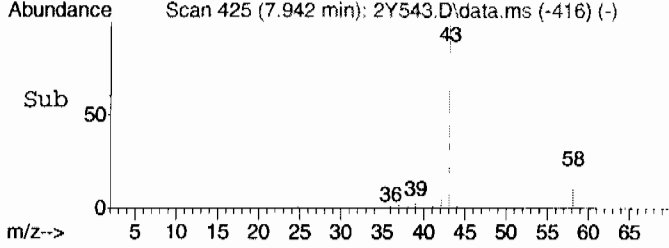
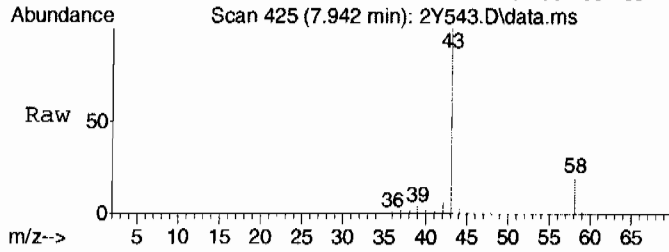
Quant Time: Feb 15 07:47:05 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE





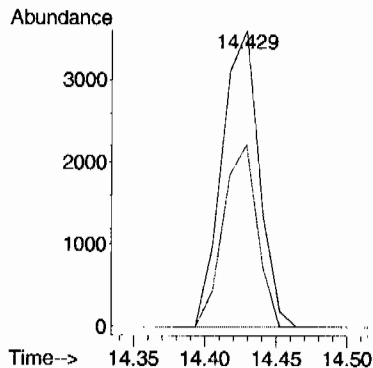
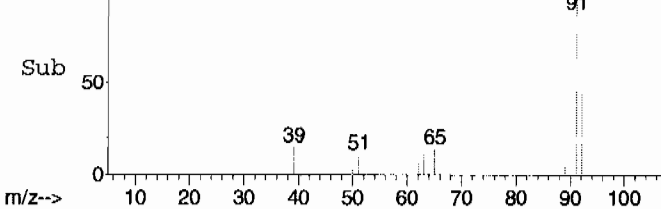
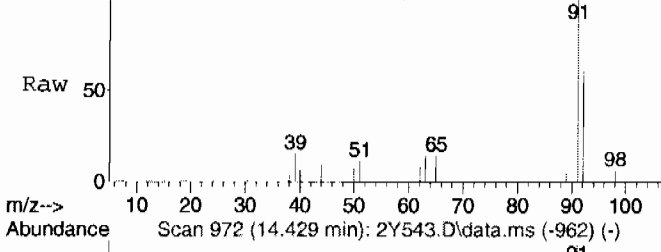
#9
Acetone
Concen: 19.54 ug/L
RT: 7.942 min Scan# 425
Delta R.T. 0.012 min
Lab File: 2Y543.D
Acq: 13 Feb 2010 3:02 am

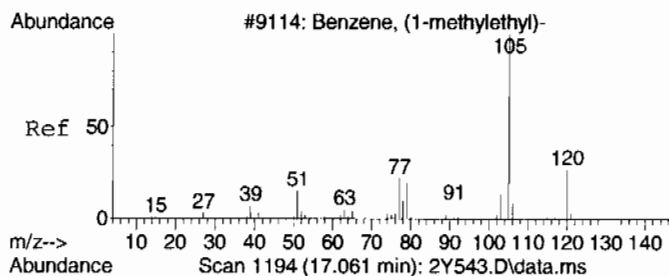
Tgt Ion: 43 Resp: 83913
Ion Ratio Lower Upper
43 100
58 21.8 0.0 54.1



#44
Toluene
Concen: 0.34 ug/L
RT: 14.429 min Scan# 972
Delta R.T. -0.000 min
Lab File: 2Y543.D
Acq: 13 Feb 2010 3:02 am

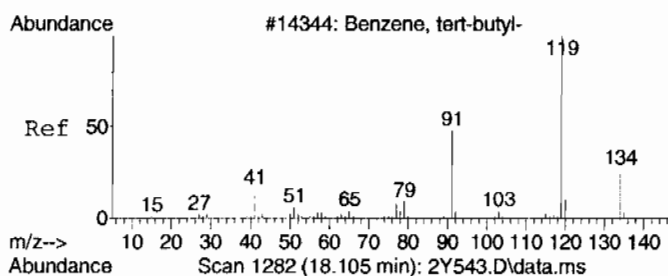
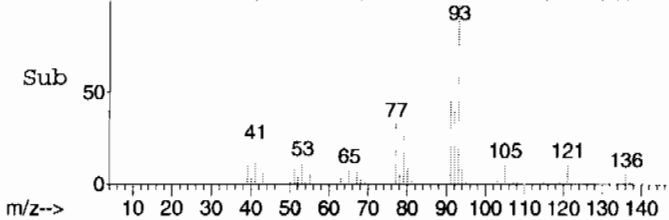
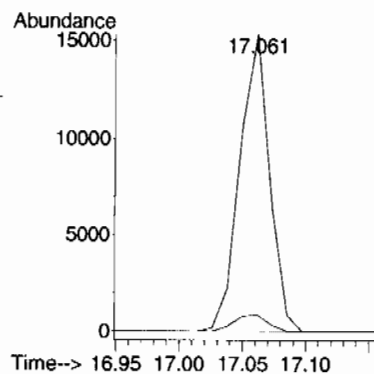
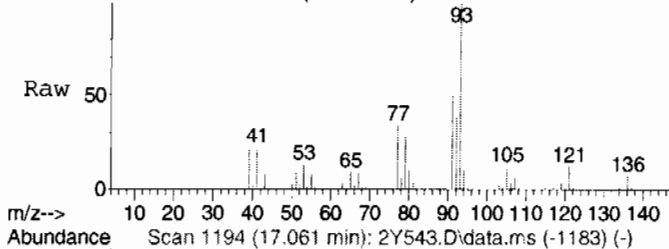
Tgt Ion: 91 Resp: 6589
Ion Ratio Lower Upper
91 100
92 56.4 30.1 90.1





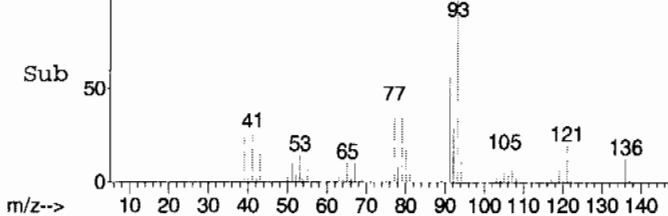
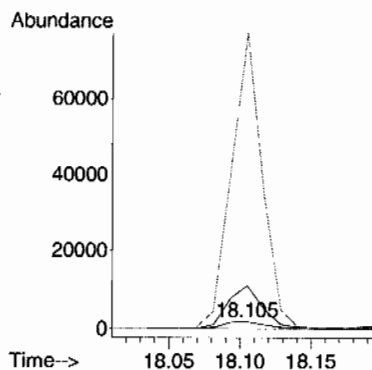
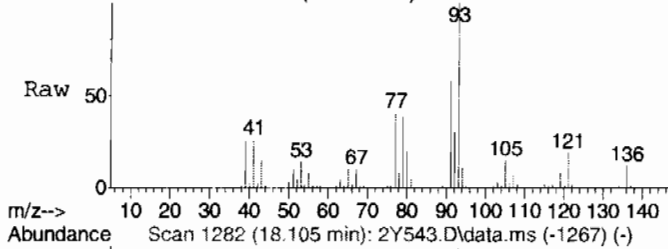
#60 BEFORE analyst DELETION
Isopropylbenzene
Concen: 1.06 ug/L
RT: 17.061 min Scan# 1194
Delta R.T. 0.023 min
Lab File: 2Y543.D
Acq: 13 Feb 2010 3:02 am

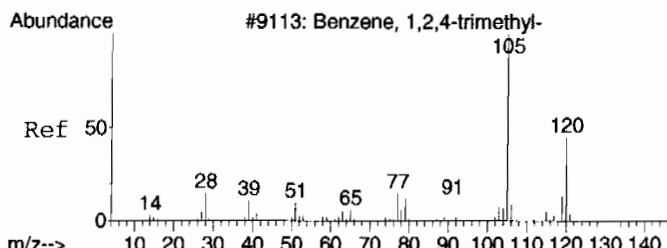
Tgt Ion:105 Resp: 25352
Ion Ratio Lower Upper
105 100
120 6.3 0.0 54.3



#69 BEFORE analyst DELETION
tert-Butylbenzene
Concen: 0.89 ug/L
RT: 18.105 min Scan# 1282
Delta R.T. 0.095 min
Lab File: 2Y543.D
Acq: 13 Feb 2010 3:02 am

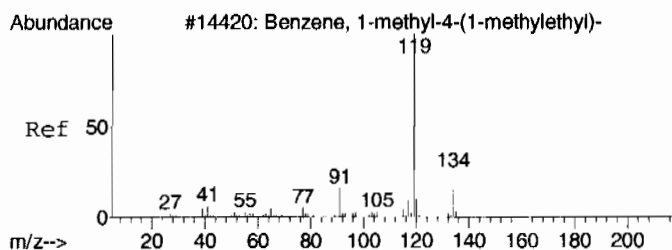
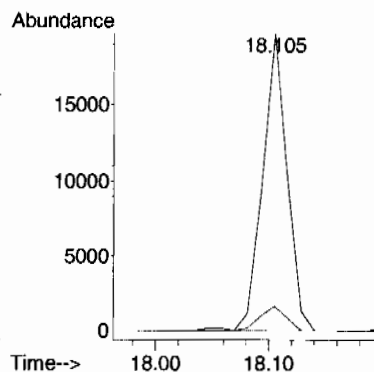
Tgt Ion:134 Resp: 3456
Ion Ratio Lower Upper
134 100
119 548.0 477.3 537.3#
91 3355.1 385.8 445.8#





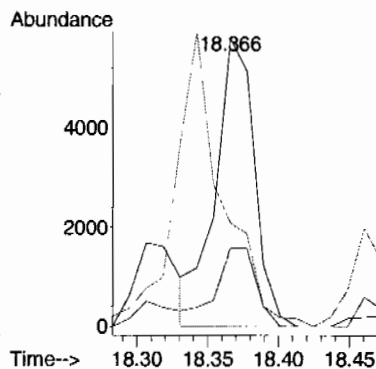
#70 BEFORE analyst DELETION
1,2,4-Trimethylbenzene
Concen: 1.35 ug/L
RT: 18.105 min Scan# 1282
Delta R.T. 0.048 min
Lab File: 2Y543.D
Acq: 13 Feb 2010 3:02 am

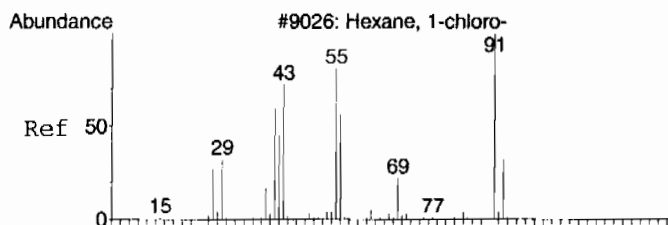
Tgt Ion:105 Resp: 29529
Ion Ratio Lower Upper
105 100
120 8.9 11.0 71.0#



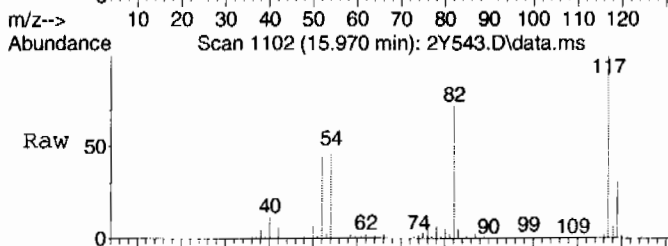
#72
4-Isopropyltoluene
Concen: 0.52 ug/L
RT: 18.366 min Scan# 1304
Delta R.T. -0.000 min
Lab File: 2Y543.D
Acq: 13 Feb 2010 3:02 am

Tgt Ion:119 Resp: 11181
Ion Ratio Lower Upper
119 100
134 28.4 0.0 54.1
91 109.4 0.0 58.1#

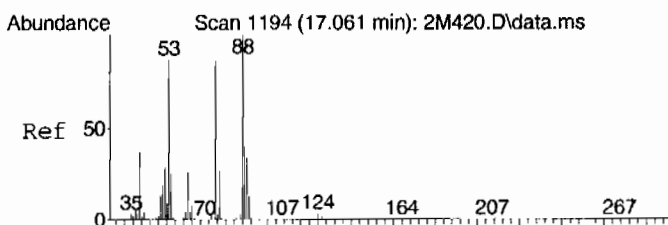
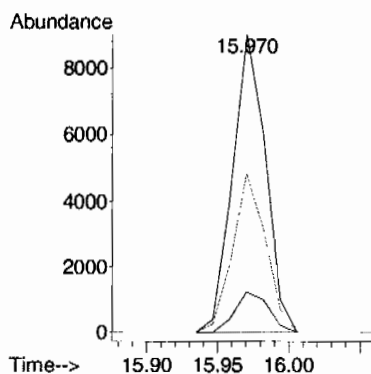
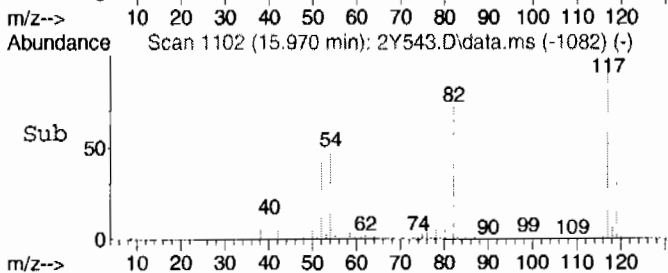




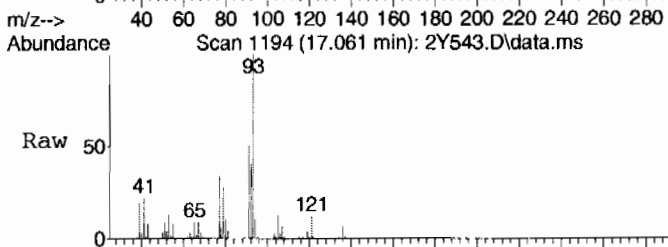
#106 BEFORE analyst DELETION
1-Chlorohexane
Concen: 2.24 ug/L
RT: 15.970 min Scan# 1102
Delta R.T. 0.059 min
Lab File: 2Y543.D
Acq: 13 Feb 2010 3:02 am



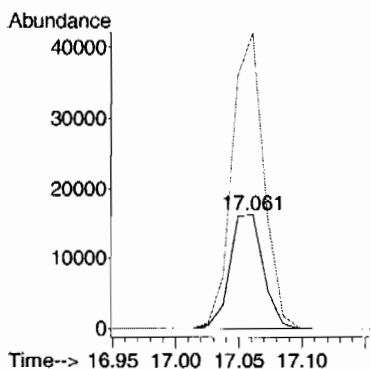
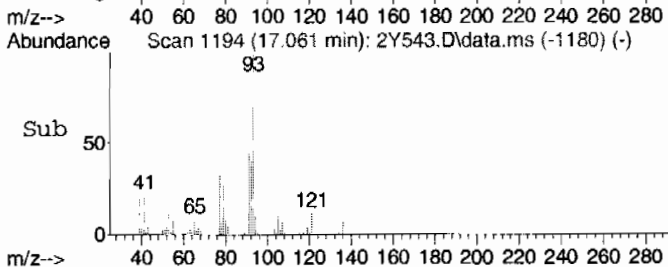
Tgt Ion: 55 Resp: 14571
Ion Ratio Lower Upper
55 100
91 14.0 66.2 126.2#
56 54.1 26.7 86.7

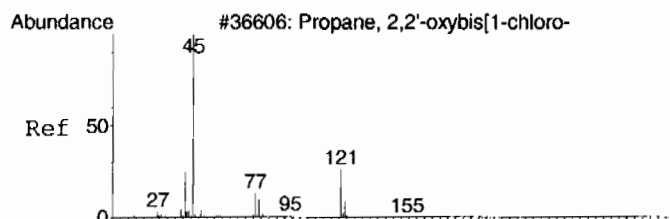


#107 BEFORE analyst DELETION
cis-1,4-Dichloro-2-butene
Concen: 12.17 ug/L
RT: 17.061 min Scan# 1194
Delta R.T. -0.012 min
Lab File: 2Y543.D
Acq: 13 Feb 2010 3:02 am



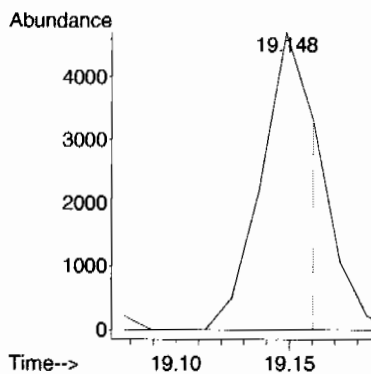
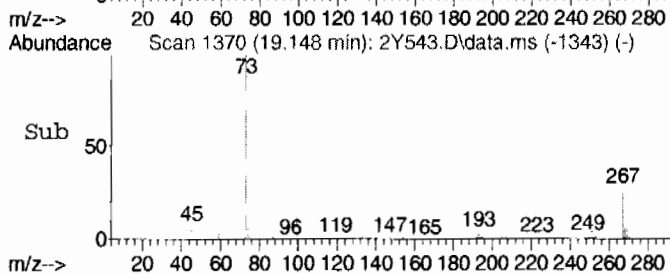
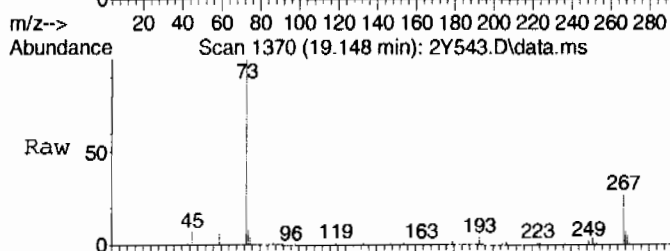
Tgt Ion: 53 Resp: 30012
Ion Ratio Lower Upper
53 100
88 0.0 81.8 141.8#
77 246.1 0.0 51.3#





#112 BEFORE analyst DELETION
 bis(2-Chloroisopropyl)ether
 Concen: 2.04 ug/L
 RT: 19.148 min Scan# 1370
 Delta R.T. 0.130 min
 Lab File: 2Y543.D
 Acq: 13 Feb 2010 3:02 am

Tgt Ion: 45 Resp: 7624
 Ion Ratio Lower Upper
 45 100
 121 0.0 0.0 50.1



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y543.D
Acq On : 13 Feb 2010 3:02 am
Operator : CDS1
Sample : |246434012|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 43 Sample Multiplier: 1

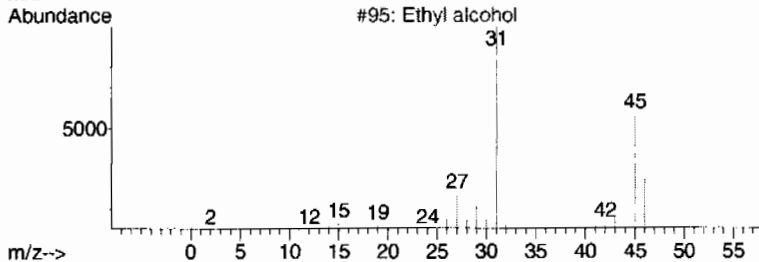
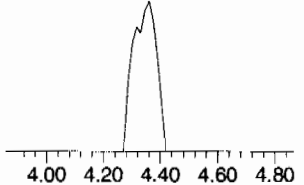
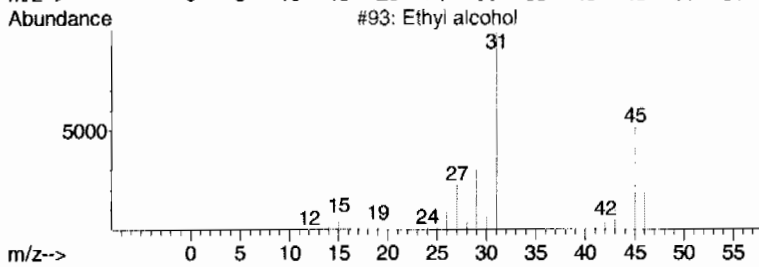
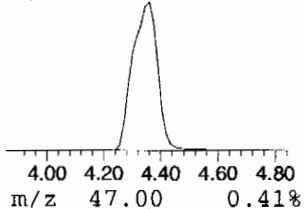
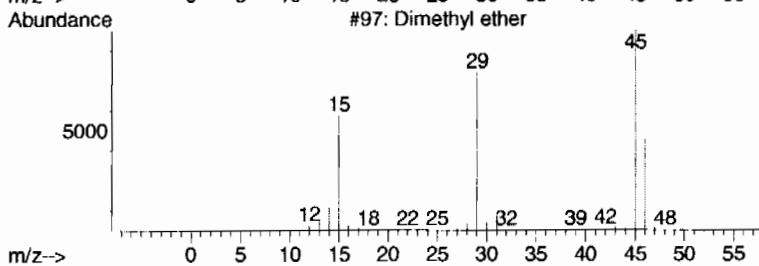
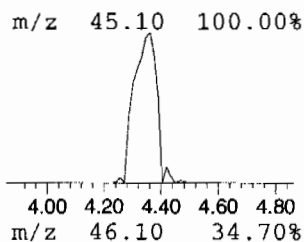
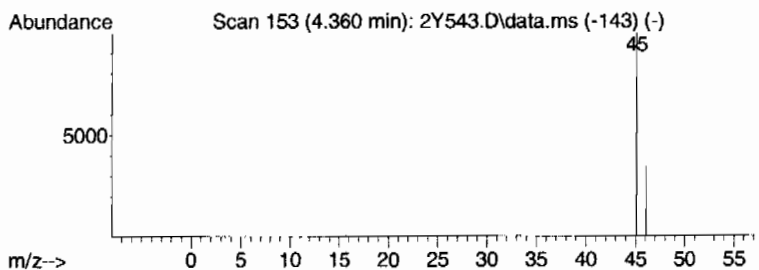
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.360	23.17 ug/L	1258650	Fluorobenzene	12.437

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Dimethyl ether	46	C2H6O	000115-10-6	5
2			Ethyl alcohol	46	C2H6O	000064-17-5	4
3			Ethyl alcohol	46	C2H6O	000064-17-5	4
4			Ethyl alcohol	46	C2H6O	000064-17-5	4
5			Formic acid	46	CH2O2	000064-18-6	3



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y543.D
Acq On : 13 Feb 2010 3:02 am
Operator : CDS1
Sample : |246434012|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 43 Sample Multiplier: 1

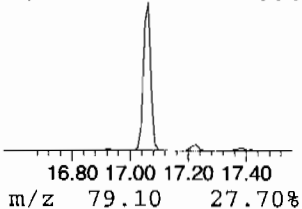
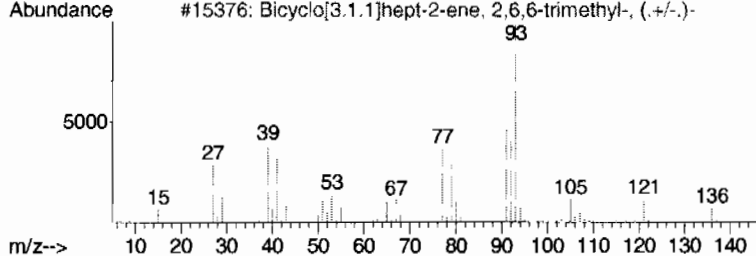
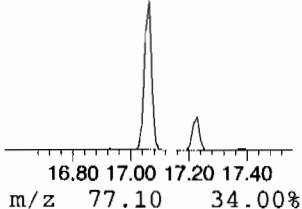
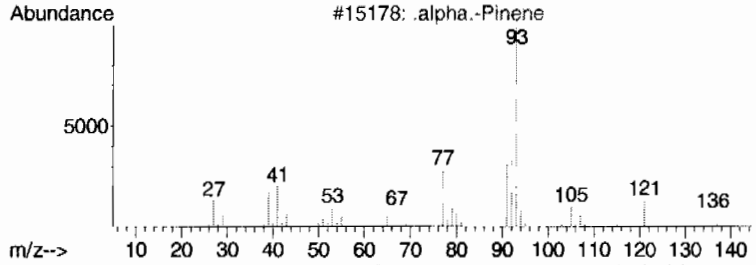
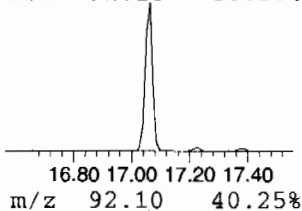
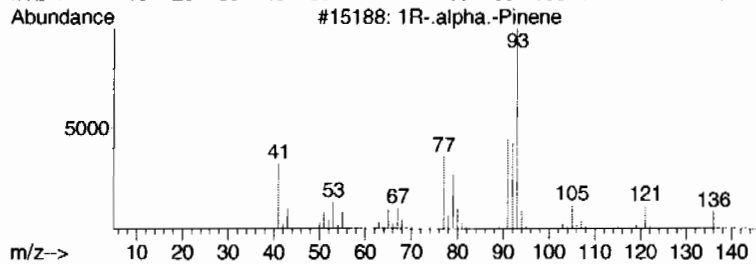
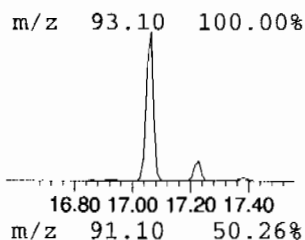
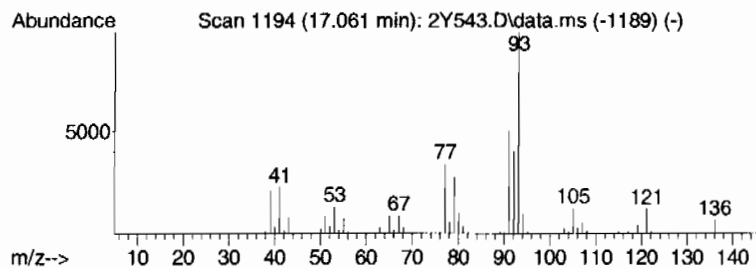
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 2 unknown hydrocarbon Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.061	16.69 ug/L	1019260	B Chlorobenzene-d5	15.970

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1R-.alpha.-Pinene	136	C10H16	007785-70-8	97
2			.alpha.-Pinene	136	C10H16	000080-56-8	97
3			Bicyclo[3.1.1]hept-2-ene, 2,6,6-...	136	C10H16	002437-95-8	95
4			1R-.alpha.-Pinene	136	C10H16	007785-70-8	94
5			1,4-Cyclohexadiene, 1-methyl-4-(...	136	C10H16	000099-85-4	93



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y543.D
Acq On : 13 Feb 2010 3:02 am
Operator : CDS1
Sample : |246434012|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 43 Sample Multiplier: 1

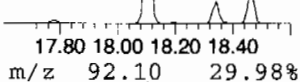
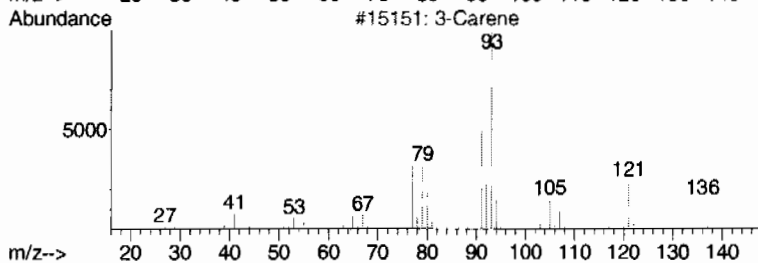
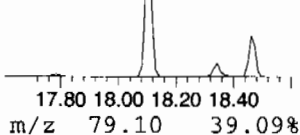
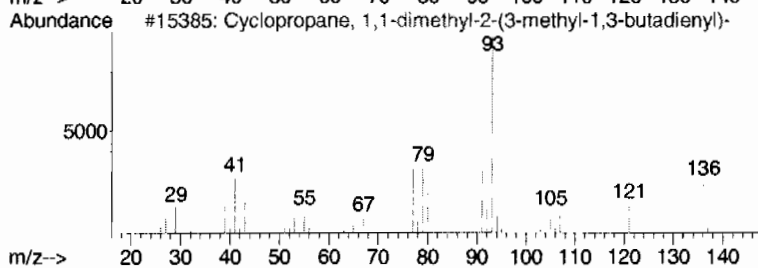
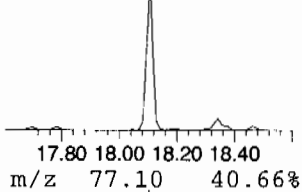
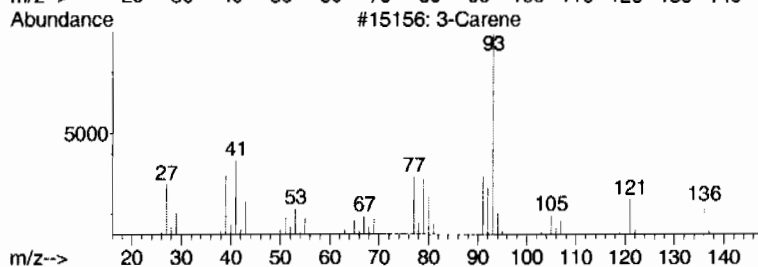
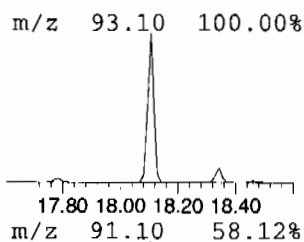
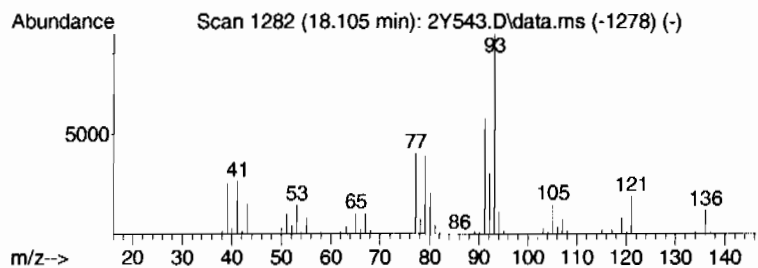
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 3 unknown hydrocarbon Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.105	16.49 ug/L	1110810	1,4-Dichlorobenzene-d4	18.461

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			3-Carene	136	C10H16	013466-78-9	95
2			Cyclopropane, 1,1-dimethyl-2-(3-...	136	C10H16	068998-21-0	94
3			3-Carene	136	C10H16	013466-78-9	93
4			1R-.alpha.-Pinene	136	C10H16	007785-70-8	91
5			4-Carene	136	C10H16	1000150-36-1	87



Tentatively Identified Compound (LSC) summary
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y543.D
Acq On : 13 Feb 2010 3:02 am
Operator : CDS1
Sample : |246434012|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 43 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown	4.360	23.2	ug/L	1258650	1	12.437	2716120	50.0
unknown hydroca...	17.061	16.7	ug/L	1019260	4	15.970	3052890	50.0
unknown hydroca...	18.105	16.5	ug/L	1110810	5	18.461	3367390	50.0

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434014

 Client ID: RE15-10-8375
 Batch ID: 952586
 Run Date: 02/13/2010 04:00
 Prep Date: 02/12/2010 11:17
 Data File: 021210V2.b2Y545.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 19.7
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.25	ug/kg	0.424	1.25
74-87-3	Chloromethane	U	1.25	ug/kg	0.374	1.25
75-01-4	Vinyl chloride	U	1.25	ug/kg	0.374	1.25
74-83-9	Bromomethane	U	1.25	ug/kg	0.374	1.25
75-00-3	Chloroethane	U	1.25	ug/kg	0.374	1.25
75-69-4	Trichlorofluoromethane	U	1.25	ug/kg	0.374	1.25
67-64-1	Acetone	U	6.23	ug/kg	2.07	6.23
75-35-4	1,1-Dichloroethylene	U	1.25	ug/kg	0.374	1.25
74-88-4	Iodomethane	U	6.23	ug/kg	1.99	6.23
75-09-2	Methylene chloride	U	6.23	ug/kg	2.49	6.23
75-15-0	Carbon disulfide	U	6.23	ug/kg	1.56	6.23
156-60-5	trans-1,2-Dichloroethylene	U	1.25	ug/kg	0.374	1.25
75-34-3	1,1-Dichloroethane	U	1.25	ug/kg	0.374	1.25
78-93-3	2-Butanone	U	6.23	ug/kg	1.87	6.23
156-59-2	cis-1,2-Dichloroethylene	U	1.25	ug/kg	0.374	1.25
594-20-7	2,2-Dichloropropane	U	1.25	ug/kg	0.374	1.25
67-66-3	Chloroform	U	1.25	ug/kg	0.374	1.25
74-97-5	Bromochloromethane	U	1.25	ug/kg	0.411	1.25
71-55-6	1,1,1-Trichloroethane	U	1.25	ug/kg	0.374	1.25
563-58-6	1,1-Dichloropropene	U	1.25	ug/kg	0.374	1.25
56-23-5	Carbon tetrachloride	U	1.25	ug/kg	0.374	1.25
107-06-2	1,2-Dichloroethane	U	1.25	ug/kg	0.374	1.25
71-43-2	Benzene	U	1.25	ug/kg	0.374	1.25
79-01-6	Trichloroethylene	U	1.25	ug/kg	0.411	1.25
78-87-5	1,2-Dichloropropane	U	1.25	ug/kg	0.374	1.25
75-27-4	Bromodichloromethane	U	1.25	ug/kg	0.374	1.25
74-95-3	Dibromomethane	U	1.25	ug/kg	0.374	1.25
108-10-1	4-Methyl-2-pentanone	U	6.23	ug/kg	1.56	6.23
10061-01-5	cis-1,3-Dichloropropylene	U	1.25	ug/kg	0.374	1.25
108-88-3	Toluene	U	1.25	ug/kg	0.374	1.25
10061-02-6	trans-1,3-Dichloropropylene	U	1.25	ug/kg	0.374	1.25
79-00-5	1,1,2-Trichloroethane	U	1.25	ug/kg	0.374	1.25
591-78-6	2-Hexanone	U	6.23	ug/kg	1.87	6.23
142-28-9	1,3-Dichloropropane	U	1.25	ug/kg	0.374	1.25
127-18-4	Tetrachloroethylene	U	1.25	ug/kg	0.374	1.25
124-48-1	Dibromochloromethane	U	1.25	ug/kg	0.374	1.25
106-93-4	1,2-Dibromoethane	U	1.25	ug/kg	0.374	1.25
108-90-7	Chlorobenzene	U	1.25	ug/kg	0.374	1.25

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434014
 Client ID: RE15-10-8375
 Batch ID: 952586
 Run Date: 02/13/2010 04:00
 Prep Date: 02/12/2010 11:17
 Data File: 021210V2.b\2Y545.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.1
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 19.7
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.25	ug/kg	0.374	1.25
179601-23-1	m,p-Xylenes	U	2.49	ug/kg	0.374	2.49
95-47-6	o-Xylene	U	1.25	ug/kg	0.374	1.25
100-42-5	Styrene	U	1.25	ug/kg	0.374	1.25
75-25-2	Bromoform	U	1.25	ug/kg	0.374	1.25
79-34-5	1,1,2,2-Tetrachloroethane	U	1.25	ug/kg	0.374	1.25
96-18-4	1,2,3-Trichloropropane	U	1.25	ug/kg	0.374	1.25
108-86-1	Bromobenzene	U	1.25	ug/kg	0.374	1.25
103-65-1	n-Propylbenzene	U	1.25	ug/kg	0.374	1.25
95-49-8	2-Chlorotoluene	U	1.25	ug/kg	0.374	1.25
98-82-8	Isopropylbenzene	U	1.25	ug/kg	0.374	1.25
108-67-8	1,3,5-Trimethylbenzene	U	1.25	ug/kg	0.374	1.25
106-43-4	4-Chlorotoluene	U	1.25	ug/kg	0.374	1.25
98-06-6	tert-Butylbenzene	U	1.25	ug/kg	0.374	1.25
95-63-6	1,2,4-Trimethylbenzene	U	1.25	ug/kg	0.374	1.25
135-98-8	sec-Butylbenzene	U	1.25	ug/kg	0.374	1.25
99-87-6	4-Isopropyltoluene	U	1.25	ug/kg	0.374	1.25
541-73-1	1,3-Dichlorobenzene	U	1.25	ug/kg	0.374	1.25
106-46-7	1,4-Dichlorobenzene	U	1.25	ug/kg	0.374	1.25
104-51-8	n-Butylbenzene	U	1.25	ug/kg	0.374	1.25
96-12-8	1,2-Dibromo-3-chloropropane	U	1.25	ug/kg	0.374	1.25
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane Trichlorotrifluoroethane	U	6.23	ug/kg	1.99	6.23
630-20-6	1,1,1,2-Tetrachloroethane	U	1.25	ug/kg	0.374	1.25
95-50-1	1,2-Dichlorobenzene	U	1.25	ug/kg	0.374	1.25

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.33	10.7	ug/kg	0	J

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y545.D
Acq On : 13 Feb 2010 4:00 am
Operator : CDS1
InstName : VOA2
Sample : |246434014|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Feb 15 07:47:51 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev (Min)
1) Fluorobenzene	12.425	12.437	1.000	96	1271467	50.00	ug/L	-0.01
41) Chlorobenzene-d5	15.970	15.970	1.000	117	932515	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	479518	50.00	ug/L	0.00
82) B Fluorobenzene	12.425	12.437	1.000	96	1271398	50.00	ug/L	-0.01
103) B Chlorobenzene-d5	15.970	15.971	1.000	117	932515	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	479806	50.00	ug/L	0.00
System Monitoring Compounds								Dev (Min)
29) 1,2-Dichloroethane-d4	11.974	11.986	0.964	65	655500	54.87	ug/L	-0.01
Spiked Amount	50.000	Range 66 - 134	Recovery	=	109.74%			
43) Toluene-d8	14.346	14.346	0.898	98	1256980	50.42	ug/L	0.00
Spiked Amount	50.000	Range 71 - 128	Recovery	=	100.84%			
61) Bromofluorobenzene	17.227	17.227	0.933	95	568251	55.22	ug/L	0.00
Spiked Amount	50.000	Range 65 - 130	Recovery	=	110.44%			
Target Compounds	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	QValue
2) Dichlorodifluoromethane	0.000	4.702	0.000		0	N.D.		
3) Chloromethane	5.088	4.999	0.410	50	138	N.D.		
4) Vinyl chloride	5.296	5.266	0.426	62	144	N.D.		
5) Bromomethane	0.000	5.980	0.000		0	N.D.		
6) Chloroethane	0.000	6.223	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000	6.839	0.000		0	N.D.		
8) Ethyl ether	0.000	7.409	0.000		0	N.D.		
9) Acetone	8.013	7.930	0.645	43	2111	N.D.		
10) 1,1-Dichloroethylene	0.000	7.883	0.000		0	N.D.		
11) Iodomethane	0.000	8.167	0.000		0	N.D.		
12) Acetonitrile	0.000	8.452	0.000		0	N.D.		
13) Methyl acetate	0.000	8.571	0.000		0	N.D.		
14) Carbon disulfide	0.000	8.322	0.000		0	N.D.		
15) Methylene chloride	8.772	8.772	0.706	84	7864	N.D.		
16) tert-Butyl methyl ether	0.000	9.282	0.000		0	N.D.		
17) trans-1,2-Dichloroethy...	0.000	9.270	0.000		0	N.D.		
18) Vinyl acetate	0.000	10.017	0.000		0	N.D.		
19) 1,1-Dichloroethane	0.000	9.958	0.000		0	N.D.		
20) 2-Butanone	10.859	10.836	0.874	43	650	N.D.		
21) cis-1,2-Dichloroethylene	0.000	10.848	0.000		0	N.D.		
22) 2,2-Dichloropropane	0.000	10.871	0.000		0	N.D.		
23) Bromochloromethane	0.000	11.203	0.000		0	N.D.		
24) Chloroform	11.286	11.298	0.908	83	225	N.D.		
25) 1,1,1-Trichloroethane	0.000	11.606	0.000		0	N.D.		
26) Cyclohexane	11.690	11.713	0.941	56	519	N.D.		
27) 1,1-Dichloropropene	0.000	11.820	0.000		0	N.D.		
28) Carbon tetrachloride	0.000	11.844	0.000		0	N.D.		
30) 1,2-Dichloroethane	0.000	12.093	0.000		0	N.D.		
31) Benzene	12.081	12.093	0.972	78	287	N.D.		
32) Cyclohexene	0.000	12.247	0.000		0	N.D.		
33) n-Butyl alcohol	0.000	12.697	0.000		0	N.D.		
34) Trichloroethylene	12.887	12.899	1.037	95	262	N.D.		
35) 1,2-Dichloropropane	0.000	13.172	0.000		0	N.D.		
36) Methylcyclohexane	0.000	13.184	0.000		0	N.D.		
37) Dibromomethane	0.000	13.314	0.000		0	N.D.		

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y545.D
Acq On : 13 Feb 2010 4:00 am
Operator : CDS1
InstName : VOA2
Sample : |246434014|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Feb 15 07:47:51 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
38) Bromodichloromethane	0.000	13.480	0.000		0	N.D.	
39) 2-Chloroethylvinyl ether	0.000	13.800	0.000		0	N.D.	
40) cis-1,3-Dichloropropylene	0.000	14.002	0.000		0	N.D.	
42) 4-Methyl-2-pentanone	0.000	14.144	0.000		0	N.D.	
44) Toluene	14.417	14.429	0.903	91	2265	N.D.	
45) trans-1,3-Dichloroprop...	0.000	14.618	0.000		0	N.D.	
46) 1,1,2-Trichloroethane	0.000	14.844	0.000		0	N.D.	
47) 2-Hexanone	0.000	15.069	0.000		0	N.D.	
48) 1,3-Dichloropropane	0.000	15.045	0.000		0	N.D.	
49) Tetrachloroethylene	0.000	15.069	0.000		0	N.D.	
50) Dibromochloromethane	0.000	15.318	0.000		0	N.D.	
51) 1,2-Dibromoethane	0.000	15.472	0.000		0	N.D.	
52) Chlorobenzene	16.006	16.006	1.002	112	122	N.D.	
53) 1,1,1,2-Tetrachloroethane	0.000	16.077	0.000		0	N.D.	
54) Ethylbenzene	16.101	16.101	1.008	91	657	N.D.	
55) m,p-Xylenes	16.219	16.219	1.016	106	598	N.D.	
56) o-Xylene	0.000	16.658	0.000		0	N.D.	
57) Styrene	16.658	16.658	1.043	104	302	N.D.	
59) Bromoform	0.000	16.895	0.000		0	N.D.	
60) Isopropylbenzene	0.000	17.038	0.000		0	N.D.	
62) 1,1,2,2-Tetrachloroethane	0.000	17.310	0.000		0	N.D.	
63) 1,2,3-Trichloropropane	0.000	17.393	0.000		0	N.D.	
64) Bromobenzene	0.000	17.429	0.000		0	N.D.	
65) n-Propylbenzene	17.476	17.476	0.947	91	154	N.D.	
66) 1,3,5-Trimethylbenzene	17.642	17.642	0.956	105	149	N.D.	
67) 2-Chlorotoluene	0.000	17.607	0.000		0	N.D.	
68) 4-Chlorotoluene	17.714	17.714	0.960	91	335	N.D.	
69) tert-Butylbenzene	0.000	18.010	0.000		0	N.D.	
70) 1,2,4-Trimethylbenzene	18.058	18.057	0.978	105	444	N.D.	
71) sec-Butylbenzene	0.000	18.235	0.000		0	N.D.	
72) 4-Isopropyltoluene	18.461	18.366	1.000	119	132	N.D.	
73) 1,3-Dichlorobenzene	18.401	18.401	0.997	146	344	N.D.	
74) 1,4-Dichlorobenzene	18.496	18.496	1.002	146	576	N.D.	
75) n-Butylbenzene	18.805	18.805	1.019	91	417	N.D.	
76) 1,2-Dichlorobenzene	0.000	18.899	0.000		0	N.D.	
77) 1,2-Dibromo-3-chloropr...	0.000	19.718	0.000		0	N.D.	
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	113	N.D.	
79) Hexachlorobutadiene	0.000	20.868	0.000		0	N.D.	
80) Naphthalene	21.034	21.022	1.139	128	875	N.D.	
81) 1,2,3-Trichlorobenzene	0.000	21.342	0.000		0	N.D.	
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.	
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.	
85) Acrolein	0.000	7.646	0.000		0	N.D.	
86) Trichlorotrifluoroethane	0.000	7.930	0.000		0	N.D.	
87) Isopropyl Alcohol	8.096	8.191	0.652	45	581	N.D.	
88) Allyl chloride	0.000	8.559	0.000		0	N.D.	
89) tert-Butyl Alcohol	8.938	8.938	0.719	59	112	N.D.	
90) Acrylonitrile	0.000	9.164	0.000		0	N.D.	
91) Isopropyl ether	0.000	10.077	0.000		0	N.D.	
92) 2-Chloro-1,3-butadiene	0.000	10.124	0.000		0	N.D.	
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.	
94) Ethyl acetate	10.859	10.919	0.874	43	650	N.D.	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y545.D
Acq On : 13 Feb 2010 4:00 am
Operator : CDS1
InstName : VOA2
Sample : |246434014|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Feb 15 07:47:51 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

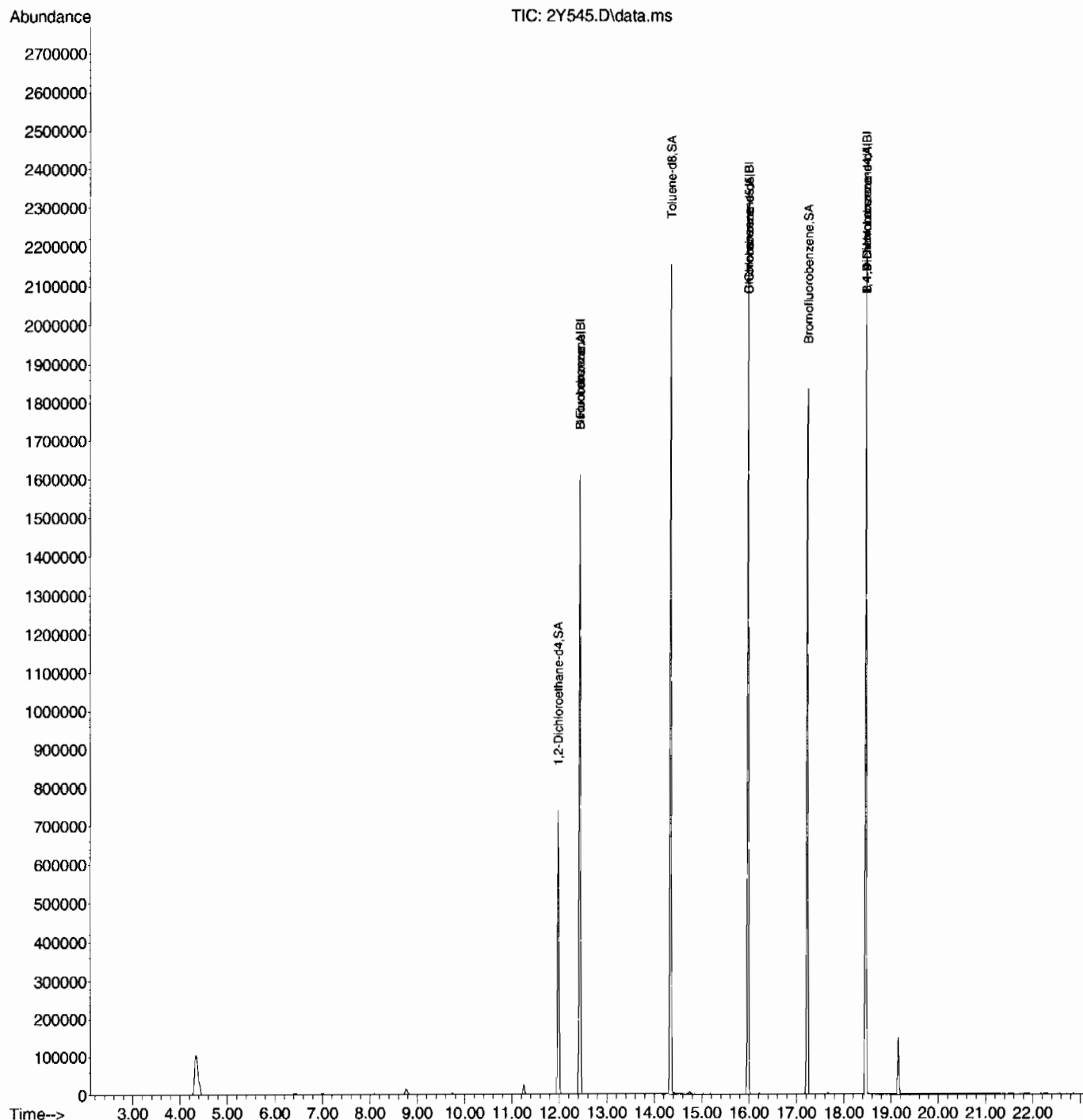
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	0.000	10.907	0.000		0	N.D.	
96) Methacrylonitrile	0.000	11.144	0.000		0	N.D.	
97) Tetrahydrofuran	11.286	11.275	0.908	42	968	N.D.	
98) Isobutyl alcohol	11.844	11.856	0.953	41	561	N.D.	
99) Methyl tert-amyl ether	0.000	12.211	0.000		0	N.D.	
100) Methyl methacrylate	0.000	13.243	0.000		0	N.D.	
101) 1,4-Dioxane	0.000	13.314	0.000		0	N.D.	
102) 2-Nitropropane	0.000	13.729	0.000		0	N.D.	
104) Ethyl methacrylate	0.000	14.678	0.000		0	N.D.	
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	0.000	17.073	0.000		0	N.D.	
108) Cyclohexanone	0.000	17.156	0.000		0	N.D.	
109) trans-1,4-Dichloro-2-b...	0.000	17.370	0.000		0	N.D.	
110) Pentachloroethane	0.000	18.058	0.000		0	N.D.	
111) Benzyl chloride	18.461	18.603	1.000	91	1617	N.D.	
112) bis(2-Chloroisopropyl)...	0.000	19.018	0.000		0m	N.D.	d

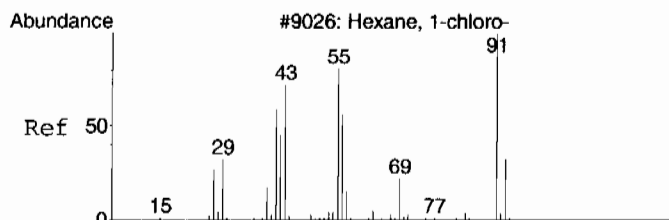
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

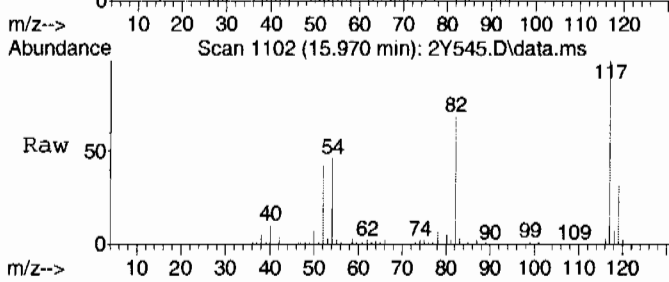
Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y545.D
Acq On : 13 Feb 2010 4:00 am
Operator : CDS1
InstName : VOA2
Sample : |246434014|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Feb 15 07:47:51 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

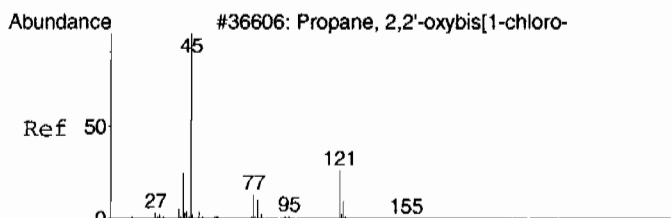
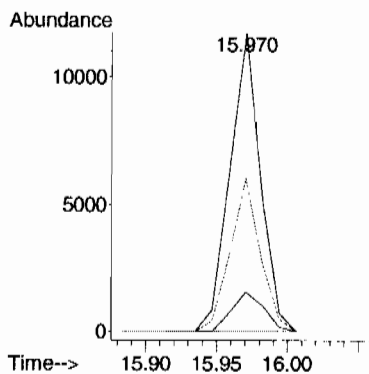
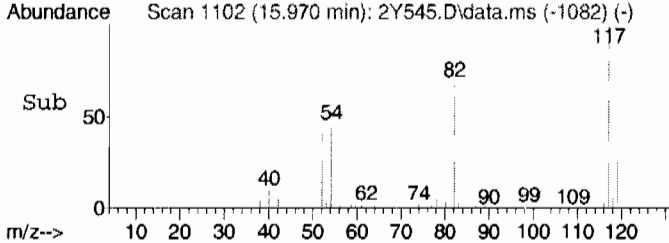




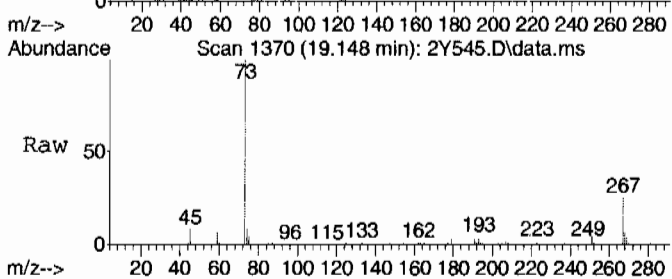
#106 BEFORE analyst DELETION
1-Chlorohexane
Concen: 2.60 ug/L
RT: 15.970 min Scan# 1102
Delta R.T. 0.059 min
Lab File: 2Y545.D
Acq: 13 Feb 2010 4:00 am



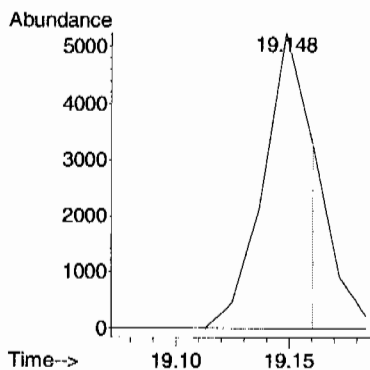
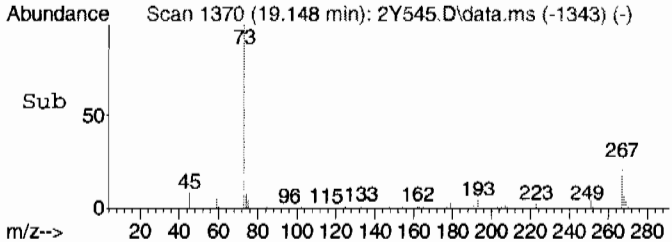
Tgt Ion: 55 Resp: 17525
Ion Ratio Lower Upper
55 100
91 14.2 66.2 126.2#
56 51.2 26.7 86.7



#112 BEFORE analyst DELETION
bis(2-Chloroisopropyl)ether
Concen: 2.04 ug/L
RT: 19.148 min Scan# 1370
Delta R.T. 0.130 min
Lab File: 2Y545.D
Acq: 13 Feb 2010 4:00 am



Tgt Ion: 45 Resp: 7913
Ion Ratio Lower Upper
45 100
121 0.0 0.0 50.1



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y545.D
Acq On : 13 Feb 2010 4:00 am
Operator : CDS1
Sample : |246434014|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 45 Sample Multiplier: 1

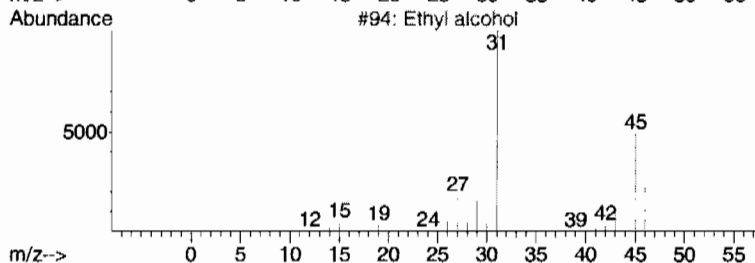
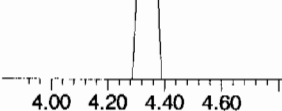
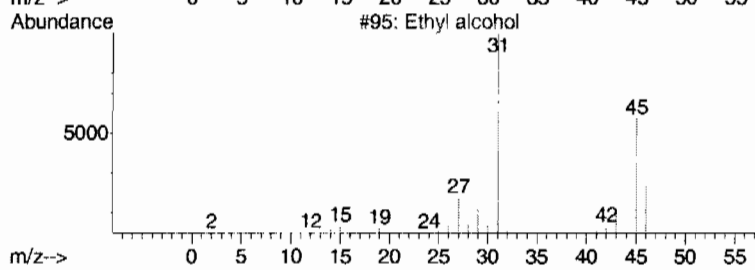
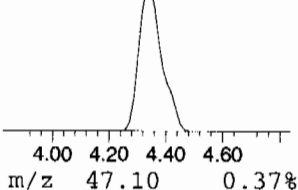
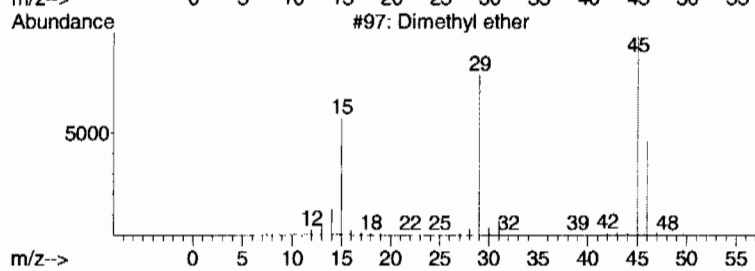
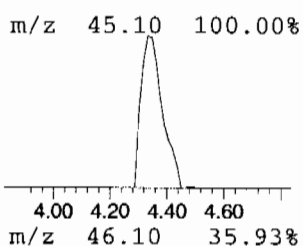
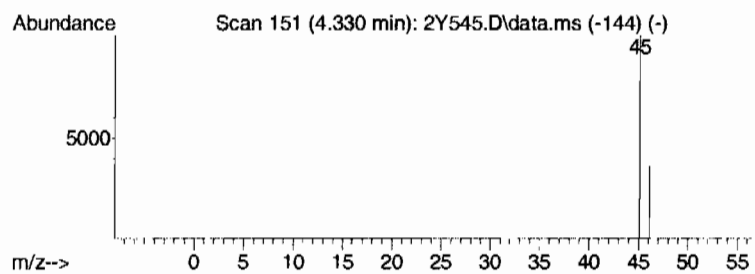
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.330	8.58 ug/L	556702	Fluorobenzene	12.425

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dimethyl ether	46	C2H6O	000115-10-6	5
2		Ethyl alcohol	46	C2H6O	000064-17-5	4
3		Ethyl alcohol	46	C2H6O	000064-17-5	4
4		Ethyl alcohol	46	C2H6O	000064-17-5	4
5		Dimethyl ether	46	C2H6O	000115-10-6	2



Tentatively Identified Compound (LSC) summary
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y545.D
Acq On : 13 Feb 2010 4:00 am
Operator : CDS1
Sample : |246434014|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 45 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown	4.330	8.6	ug/L	556702	1	12.425	3244930	50.0

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434010	Date Received: 02/06/2010 09:15	%Moisture: 22.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8338	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.1	Dilution: 1
Run Date: 02/15/2010 11:00	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/15/2010 08:03	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021510V2.b\2Z110.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.29	ug/kg	0.438	1.29
74-87-3	Chloromethane	U	1.29	ug/kg	0.386	1.29
75-01-4	Vinyl chloride	U	1.29	ug/kg	0.386	1.29
74-83-9	Bromomethane	U	1.29	ug/kg	0.386	1.29
75-00-3	Chloroethane	U	1.29	ug/kg	0.386	1.29
75-69-4	Trichlorofluoromethane	U	1.29	ug/kg	0.386	1.29
67-64-1	Acetone	U	6.44	ug/kg	2.14	6.44
75-35-4	1,1-Dichloroethylene	U	1.29	ug/kg	0.386	1.29
74-88-4	Iodomethane	U	6.44	ug/kg	2.06	6.44
75-09-2	Methylene chloride	U	6.44	ug/kg	2.58	6.44
75-15-0	Carbon disulfide	U	6.44	ug/kg	1.61	6.44
156-60-5	trans-1,2-Dichloroethylene	U	1.29	ug/kg	0.386	1.29
75-34-3	1,1-Dichloroethane	U	1.29	ug/kg	0.386	1.29
78-93-3	2-Butanone	U	6.44	ug/kg	1.93	6.44
156-59-2	cis-1,2-Dichloroethylene	U	1.29	ug/kg	0.386	1.29
594-20-7	2,2-Dichloropropane	U	1.29	ug/kg	0.386	1.29
67-66-3	Chloroform	U	1.29	ug/kg	0.386	1.29
74-97-5	Bromochloromethane	U	1.29	ug/kg	0.425	1.29
71-55-6	1,1,1-Trichloroethane	U	1.29	ug/kg	0.386	1.29
563-58-6	1,1-Dichloropropene	U	1.29	ug/kg	0.386	1.29
56-23-5	Carbon tetrachloride	U	1.29	ug/kg	0.386	1.29
107-06-2	1,2-Dichloroethane	U	1.29	ug/kg	0.386	1.29
71-43-2	Benzene	U	1.29	ug/kg	0.386	1.29
79-01-6	Trichloroethylene	U	1.29	ug/kg	0.425	1.29
78-87-5	1,2-Dichloropropane	U	1.29	ug/kg	0.386	1.29
75-27-4	Bromodichloromethane	U	1.29	ug/kg	0.386	1.29
74-95-3	Dibromomethane	U	1.29	ug/kg	0.386	1.29
108-10-1	4-Methyl-2-pentanone	U	6.44	ug/kg	1.61	6.44
10061-01-5	cis-1,3-Dichloropropylene	U	1.29	ug/kg	0.386	1.29
108-88-3	Toluene	U	1.29	ug/kg	0.386	1.29
10061-02-6	trans-1,3-Dichloropropylene	U	1.29	ug/kg	0.386	1.29
79-00-5	1,1,2-Trichloroethane	U	1.29	ug/kg	0.386	1.29
591-78-6	2-Hexanone	U	6.44	ug/kg	1.93	6.44
142-28-9	1,3-Dichloropropane	U	1.29	ug/kg	0.386	1.29
127-18-4	Tetrachloroethylene	U	1.29	ug/kg	0.386	1.29
124-48-1	Dibromochloromethane	U	1.29	ug/kg	0.386	1.29
106-93-4	1,2-Dibromochthane	U	1.29	ug/kg	0.386	1.29
108-90-7	Chlorobenzene	U	1.29	ug/kg	0.386	1.29

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434010
 Client ID: RE15-10-8338
 Batch ID: 952586
 Run Date: 02/15/2010 11:00
 Prep Date: 02/15/2010 08:03
 Data File: 021510V2.b\221110.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.1
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 22.4
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.29	ug/kg	0.386	1.29
179601-23-1	m,p-Xylenes	U	2.58	ug/kg	0.386	2.58
95-47-6	o-Xylene	U	1.29	ug/kg	0.386	1.29
100-42-5	Styrene	U	1.29	ug/kg	0.386	1.29
75-25-2	Bromoform	U	1.29	ug/kg	0.386	1.29
79-34-5	1,1,2,2-Tetrachloroethane	U	1.29	ug/kg	0.386	1.29
96-18-4	1,2,3-Trichloropropane	U	1.29	ug/kg	0.386	1.29
108-86-1	Bromobenzene	U	1.29	ug/kg	0.386	1.29
103-65-1	n-Propylbenzene	U	1.29	ug/kg	0.386	1.29
95-49-8	2-Chlorotoluene	U	1.29	ug/kg	0.386	1.29
98-82-8	Isopropylbenzene	U	1.29	ug/kg	0.386	1.29
108-67-8	1,3,5-Trimethylbenzene	U	1.29	ug/kg	0.386	1.29
106-43-4	4-Chlorotoluene	U	1.29	ug/kg	0.386	1.29
98-06-6	tert-Butylbenzene	U	1.29	ug/kg	0.386	1.29
95-63-6	1,2,4-Trimethylbenzene	U	1.29	ug/kg	0.386	1.29
135-98-8	sec-Butylbenzene	U	1.29	ug/kg	0.386	1.29
99-87-6	4-Isopropyltoluene	J	0.477	ug/kg	0.386	1.29
541-73-1	1,3-Dichlorobenzene	U	1.29	ug/kg	0.386	1.29
106-46-7	1,4-Dichlorobenzene	U	1.29	ug/kg	0.386	1.29
104-51-8	n-Butylbenzene	U	1.29	ug/kg	0.386	1.29
96-12-8	1,2-Dibromo-3-chloropropane	U	1.29	ug/kg	0.386	1.29
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.44	ug/kg	2.06	6.44
630-20-6	1,1,1,2-Tetrachloroethane	U	1.29	ug/kg	0.386	1.29
95-50-1	1,2-Dichlorobenzene	U	1.29	ug/kg	0.386	1.29

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.32	30.5	ug/kg	0	J
	unknown hydrocarbon	17.06	13.7	ug/kg	0	J
	unknown hydrocarbon	18.11	15.6	ug/kg	0	J
	unknown siloxane	21.24	21.3	ug/kg	0	J

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22110.D
Acq On : 15 Feb 2010 11:00 am
Operator : CDS1
InstName : VOA2
Sample : |246434010|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 15 12:09:24 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev (Min)
1) Fluorobenzene	12.425	12.437	1.000	96	1142132	50.00	ug/L	-0.01
41) Chlorobenzene-d5	15.970	15.970	1.000	117	866733	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	506452	50.00	ug/L	0.00
82) B Fluorobenzene	12.425	12.437	1.000	96	1142031	50.00	ug/L	-0.01
103) B Chlorobenzene-d5	15.970	15.971	1.000	117	866800	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	506564	50.00	ug/L	0.00
System Monitoring Compounds								Dev (Min)
29) 1,2-Dichloroethane-d4	11.974	11.986	0.964	65	572395	53.34	ug/L	-0.01
Spiked Amount	50.000	Range	66 - 134	Recovery	= 106.68%			
43) Toluene-d8	14.346	14.346	0.898	98	1122785	48.45	ug/L	0.00
Spiked Amount	50.000	Range	71 - 128	Recovery	= 96.90%			
61) Bromofluorobenzene	17.227	17.227	0.933	95	535518	49.27	ug/L	0.00
Spiked Amount	50.000	Range	65 - 130	Recovery	= 98.54%			
Target Compounds	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	QValue
2) Dichlorodifluoromethane	0.000	4.702	0.000		0	N.D.		
3) Chloromethane	4.999	4.999	0.402	50	287	N.D.		
4) Vinyl chloride	5.266	5.266	0.424	62	851	N.D.		
5) Bromomethane	0.000	5.980	0.000		0	N.D.		
6) Chloroethane	0.000	6.223	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000	6.839	0.000		0	N.D.		
8) Ethyl ether	0.000	7.409	0.000		0	N.D.		
9) Acetone	7.966	7.930	0.641	43	3977	N.D.		
10) 1,1-Dichloroethylene	0.000	7.883	0.000		0	N.D.		
11) Iodomethane	0.000	8.167	0.000		0	N.D.		
12) Acetonitrile	8.511	8.452	0.685	41	376	N.D.		
13) Methyl acetate	0.000	8.571	0.000		0	N.D.		
14) Carbon disulfide	8.298	8.322	0.668	76	600	N.D.		
15) Methylene chloride	8.760	8.772	0.705	84	11485	N.D.		
16) tert-Butyl methyl ether	0.000	9.282	0.000		0	N.D.		
17) trans-1,2-Dichloroethy...	0.000	9.270	0.000		0	N.D.		
18) Vinyl acetate	0.000	10.017	0.000		0	N.D.		
19) 1,1-Dichloroethane	0.000	9.958	0.000		0	N.D.		
20) 2-Butanone	10.848	10.836	0.873	43	376	N.D.		
21) cis-1,2-Dichloroethylene	0.000	10.848	0.000		0	N.D.		
22) 2,2-Dichloropropane	0.000	10.871	0.000		0	N.D.		
23) Bromochloromethane	0.000	11.203	0.000		0	N.D.		
24) Chloroform	11.286	11.298	0.908	83	255	N.D.		
25) 1,1,1-Trichloroethane	0.000	11.606	0.000		0	N.D.		
26) Cyclohexane	11.690	11.713	0.941	56	116	N.D.		
27) 1,1-Dichloropropene	0.000	11.820	0.000		0	N.D.		
28) Carbon tetrachloride	0.000	11.844	0.000		0	N.D.		
30) 1,2-Dichloroethane	0.000	12.093	0.000		0	N.D.		
31) Benzene	12.081	12.093	0.972	78	372	N.D.		
32) Cyclohexene	0.000	12.247	0.000		0	N.D.		
33) n-Butyl alcohol	0.000	12.697	0.000		0	N.D.		
34) Trichloroethylene	0.000	12.899	0.000		0	N.D.		
35) 1,2-Dichloropropane	0.000	13.172	0.000		0	N.D.		
36) Methylcyclohexane	0.000	13.184	0.000		0	N.D.		
37) Dibromomethane	0.000	13.314	0.000		0	N.D.		

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z110.D
Acq On : 15 Feb 2010 11:00 am
Operator : CDS1
InstName : VOA2
Sample : |246434010|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 15 12:09:24 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
38) Bromodichloromethane	0.000	13.480	0.000		0	N.D.	
39) 2-Chloroethylvinyl ether	0.000	13.800	0.000		0	N.D.	
40) cis-1,3-Dichloropropylene	0.000	14.002	0.000		0	N.D.	
42) 4-Methyl-2-pentanone	0.000	14.144	0.000		0	N.D.	
44) Toluene	14.417	14.429	0.903	91	2555	N.D.	
45) trans-1,3-Dichloroprop...	0.000	14.618	0.000		0	N.D.	
46) 1,1,2-Trichloroethane	0.000	14.844	0.000		0	N.D.	
47) 2-Hexanone	15.081	15.069	0.944	43	287	N.D.	
48) 1,3-Dichloropropane	0.000	15.045	0.000		0	N.D.	
49) Tetrachloroethylene	0.000	15.069	0.000		0	N.D.	
50) Dibromochloromethane	0.000	15.318	0.000		0	N.D.	
51) 1,2-Dibromoethane	0.000	15.472	0.000		0	N.D.	
52) Chlorobenzene	16.006	16.006	1.002	112	359	N.D.	
53) 1,1,1,2-Tetrachloroethane	0.000	16.077	0.000		0	N.D.	
54) Ethylbenzene	16.208	16.101	1.015	91	1192	N.D.	
55) m,p-Xylenes	16.219	16.219	1.016	106	453	N.D.	
56) o-Xylene	0.000	16.658	0.000		0	N.D.	
57) Styrene	16.658	16.658	1.043	104	310	N.D.	
59) Bromoform	0.000	16.895	0.000		0	N.D.	
60) Isopropylbenzene	0.000	17.038	0.000		0m	N.D.	d
62) 1,1,2,2-Tetrachloroethane	0.000	17.310	0.000		0	N.D.	
63) 1,2,3-Trichloropropane	0.000	17.393	0.000		0	N.D.	
64) Bromobenzene	0.000	17.429	0.000		0	N.D.	
65) n-Propylbenzene	17.465	17.476	0.946	91	839	N.D.	
66) 1,3,5-Trimethylbenzene	17.642	17.642	0.956	105	119	N.D.	
67) 2-Chlorotoluene	17.714	17.607	0.960	126	118	N.D.	
68) 4-Chlorotoluene	17.702	17.714	0.959	91	1740	N.D.	
69) tert-Butylbenzene	0.000	18.010	0.000		0m	N.D.	d
70) 1,2,4-Trimethylbenzene	0.000	18.057	0.000		0m	N.D.	d
71) sec-Butylbenzene	18.342	18.235	0.994	105	1650	N.D.	
72) 4-Isopropyltoluene	18.366	18.366	0.995	119	8660	0.37	ug/L # 26
73) 1,3-Dichlorobenzene	18.401	18.401	0.997	146	445	N.D.	
74) 1,4-Dichlorobenzene	18.496	18.496	1.002	146	1068	N.D.	
75) n-Butylbenzene	18.805	18.805	1.019	91	221	N.D.	
76) 1,2-Dichlorobenzene	18.911	18.899	1.024	146	316	N.D.	
77) 1,2-Dibromo-3-chloropr...	0.000	19.718	0.000		0	N.D.	
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	541	N.D.	
79) Hexachlorobutadiene	0.000	20.868	0.000		0	N.D.	
80) Naphthalene	21.022	21.022	1.139	128	1453	N.D.	
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156	180	199	N.D.	
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.	
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.	
85) Acrolein	0.000	7.646	0.000		0	N.D.	
86) Trichlorotrifluoroethane	0.000	7.930	0.000		0	N.D.	
87) Isopropyl Alcohol	0.000	8.191	0.000		0	N.D.	
88) Allyl chloride	8.511	8.559	0.685	41	376	N.D.	
89) tert-Butyl Alcohol	8.927	8.938	0.718	59	561	N.D.	
90) Acrylonitrile	0.000	9.164	0.000		0	N.D.	
91) Isopropyl ether	0.000	10.077	0.000		0	N.D.	
92) 2-Chloro-1,3-butadiene	0.000	10.124	0.000		0	N.D.	
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.	
94) Ethyl acetate	10.848	10.919	0.873	43	376	N.D.	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22110.D
Acq On : 15 Feb 2010 11:00 am
Operator : CDS1
InstName : VOA2
Sample : |246434010|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 15 12:09:24 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

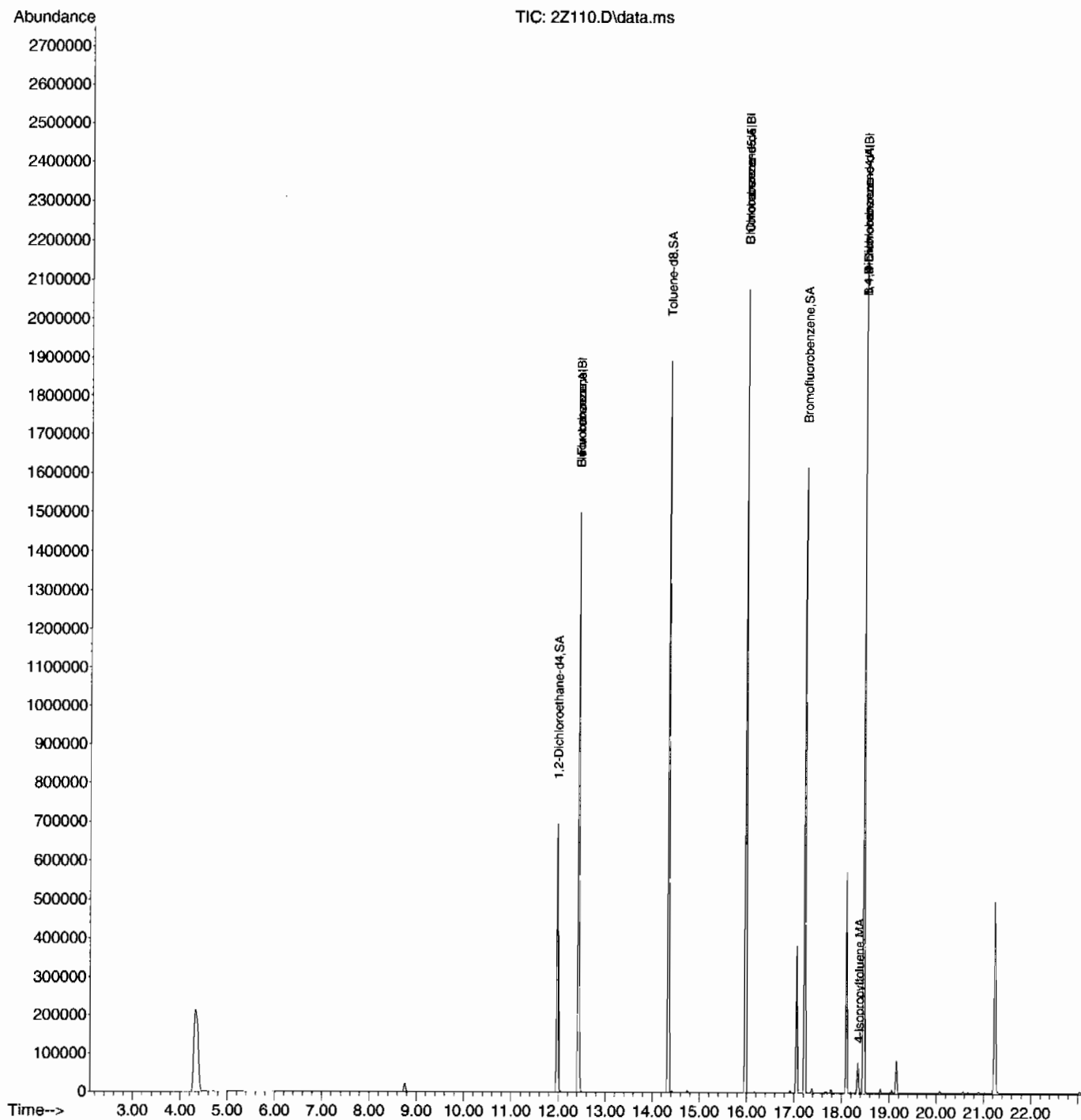
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	0.000	10.907	0.000		0	N.D.	
96) Methacrylonitrile	0.000	11.144	0.000		0	N.D.	
97) Tetrahydrofuran	11.274	11.275	0.907	42	482	N.D.	
98) Isobutyl alcohol	11.974	11.856	0.964	41	285	N.D.	
99) Methyl tert-amyl ether	0.000	12.211	0.000		0	N.D.	
100) Methyl methacrylate	0.000	13.243	0.000		0	N.D.	
101) 1,4-Dioxane	0.000	13.314	0.000		0	N.D.	
102) 2-Nitropropane	0.000	13.729	0.000		0	N.D.	
104) Ethyl methacrylate	0.000	14.678	0.000		0	N.D.	
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	0.000	17.073	0.000		0m	N.D.	d
108) Cyclohexanone	17.050	17.156	0.924	42	2455	N.D.	
109) trans-1,4-Dichloro-2-b...	17.382	17.370	0.942	53	923	N.D.	
110) Pentachloroethane	0.000	18.058	0.000		0	N.D.	
111) Benzyl chloride	18.603	18.603	1.008	91	779	N.D.	
112) bis(2-Chloroisopropyl)...	19.149	19.018	1.037	45	4406	N.D.	

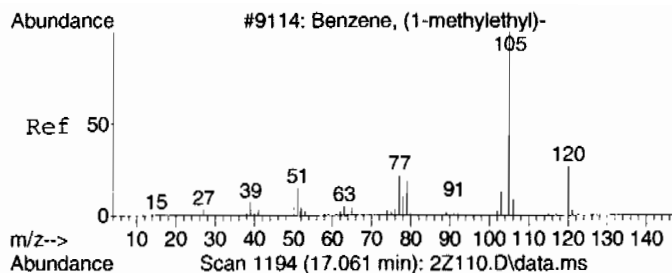
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z110.D
Acq On : 15 Feb 2010 11:00 am
Operator : CDS1
InstName : VOA2
Sample : |246434010|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 10 Sample Multiplier: 1

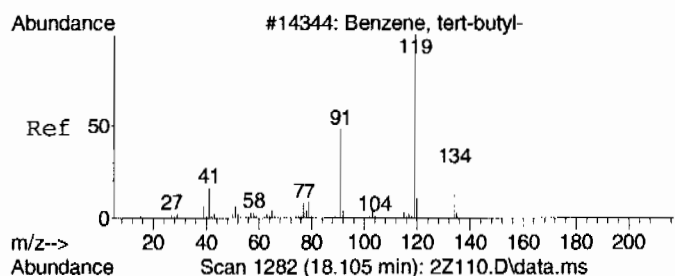
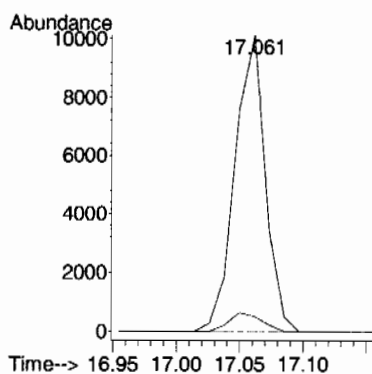
Quant Time: Feb 15 12:09:24 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE





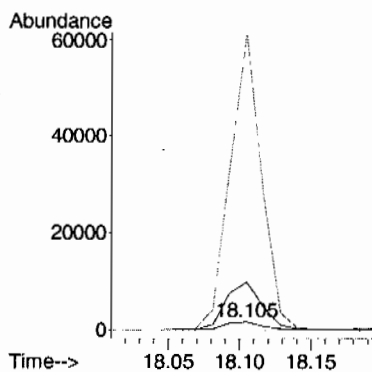
#60 BEFORE analyst DELETION
Isopropylbenzene
Concen: 0.65 ug/L
RT: 17.061 min Scan# 1194
Delta R.T. 0.023 min
Lab File: 2Z110.D
Acq: 15 Feb 2010 11:00 am

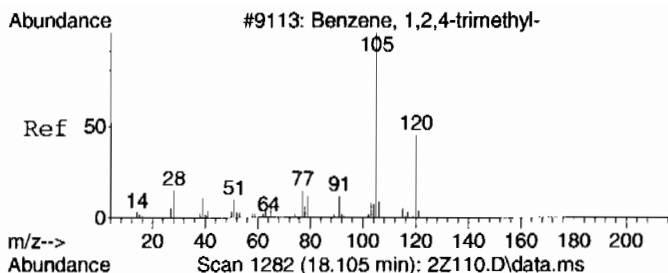
Tgt Ion	Ratio	Lower	Upper
105	100		
120	6.6	0.0	54.3



#69 BEFORE analyst DELETION
tert-Butylbenzene
Concen: 0.71 ug/L
RT: 18.105 min Scan# 1282
Delta R.T. 0.095 min
Lab File: 2Z110.D
Acq: 15 Feb 2010 11:00 am

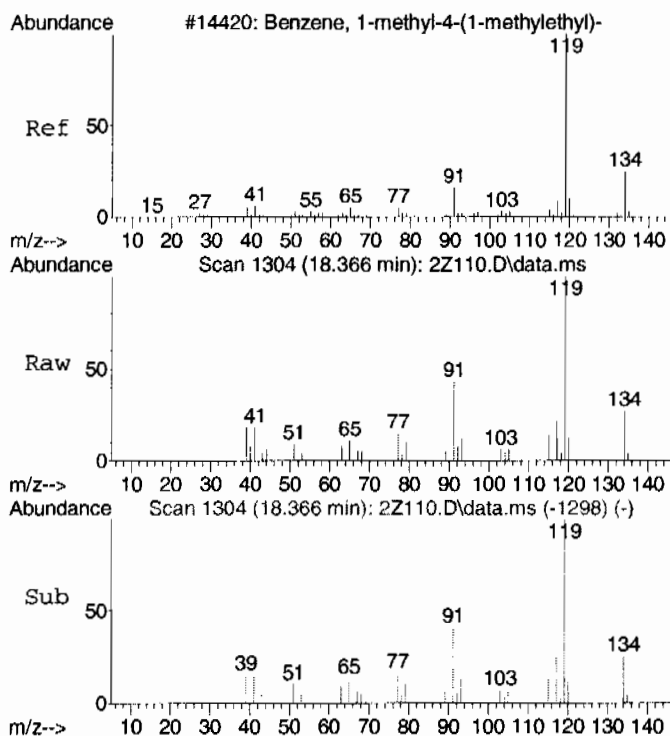
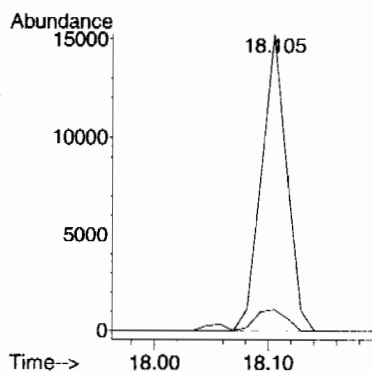
Tgt Ion	Ratio	Lower	Upper
134	100		
119	572.5	477.3	537.3#
91	3113.5	385.8	445.8#





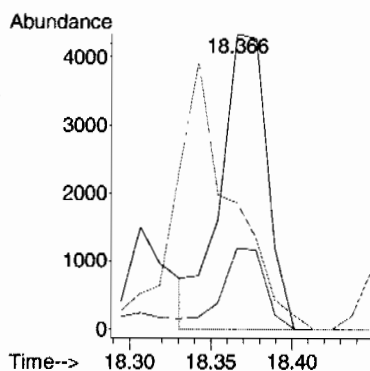
#70 BEFORE analyst DELETION
1,2,4-Trimethylbenzene
Concen: 1.01 ug/L
RT: 18.105 min Scan# 1282
Delta R.T. 0.048 min
Lab File: 2Z110.D
Acq: 15 Feb 2010 11:00 am

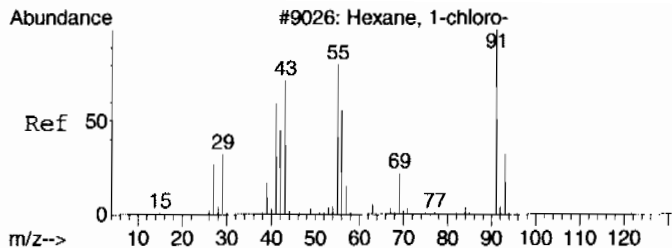
Tgt Ion:105 Resp: 23988
Ion Ratio Lower Upper
105 100
120 8.6 11.0 71.0#



#72
4-Isopropyltoluene
Concen: 0.37 ug/L
RT: 18.366 min Scan# 1304
Delta R.T. -0.000 min
Lab File: 2Z110.D
Acq: 15 Feb 2010 11:00 am

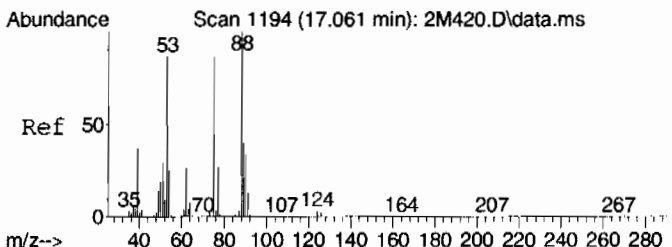
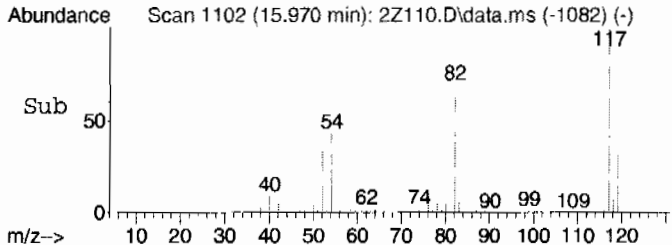
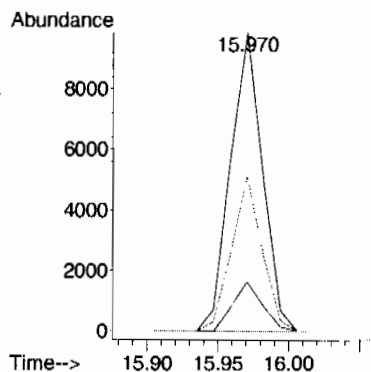
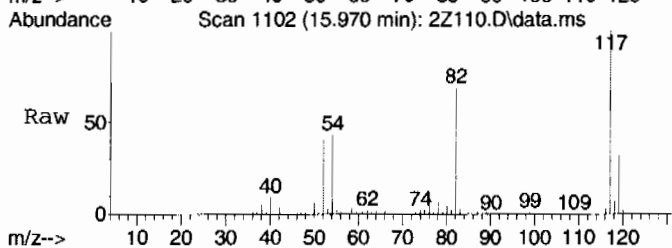
Tgt Ion:119 Resp: 8660
Ion Ratio Lower Upper
119 100
134 25.5 0.0 54.1
91 99.3 0.0 58.1#





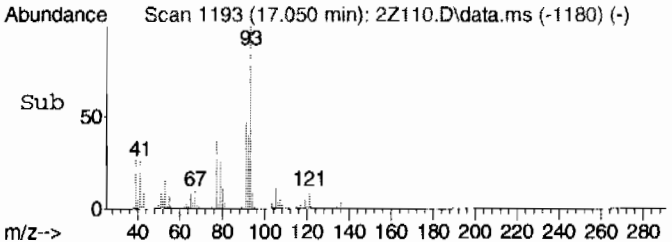
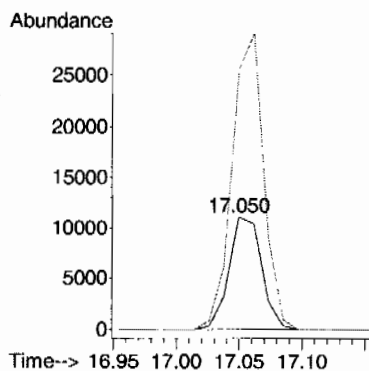
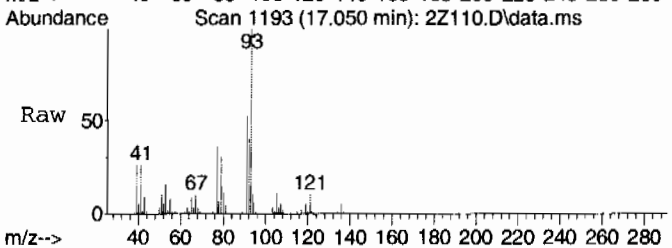
#106 BEFORE analyst DELETION
1-Chlorohexane
Concen: 2.18 ug/L
RT: 15.970 min Scan# 1102
Delta R.T. 0.059 min
Lab File: 2Z110.D
Acq: 15 Feb 2010 11:00 am

Tgt Ion: 55 Resp: 15512
Ion Ratio Lower Upper
55 100
91 15.5 66.2 126.2#
56 49.5 26.7 86.7



#107 BEFORE analyst DELETION
cis-1,4-Dichloro-2-butene
Concen: 7.48 ug/L
RT: 17.050 min Scan# 1193
Delta R.T. -0.023 min
Lab File: 2Z110.D
Acq: 15 Feb 2010 11:00 am

Tgt Ion: 53 Resp: 20156
Ion Ratio Lower Upper
53 100
88 0.0 81.8 141.8#
77 252.5 0.0 51.3#



Library Search Compound Report
GEL Laboratories, LLC

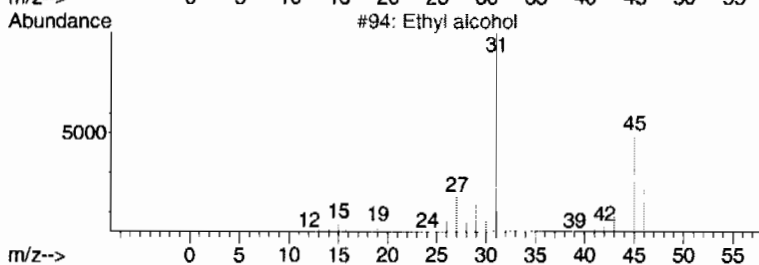
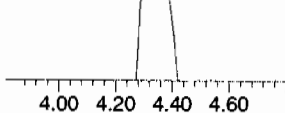
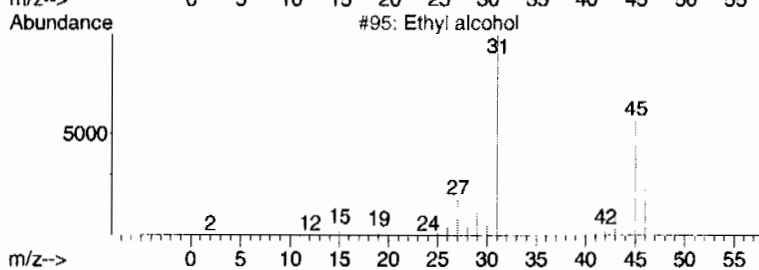
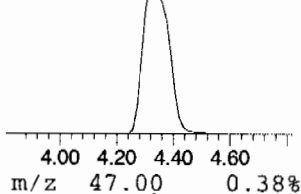
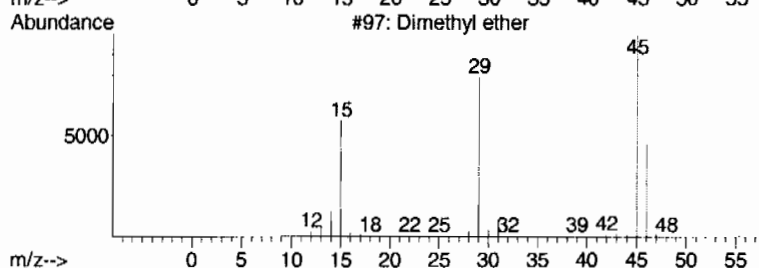
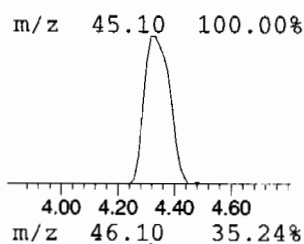
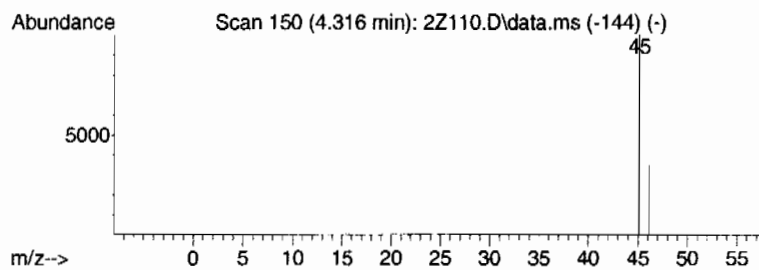
Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z110.D
Acq On : 15 Feb 2010 11:00 am
Operator : CDS1
Sample : |246434010|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.316	23.70 ug/L	1351880	Fluorobenzene	12.425
Hit# of 5	Tentative ID		MW MolForm	CAS# Qual
1	Dimethyl ether		46 C2H6O	000115-10-6 5
2	Ethyl alcohol		46 C2H6O	000064-17-5 4
3	Ethyl alcohol		46 C2H6O	000064-17-5 4
4	Ethyl alcohol		46 C2H6O	000064-17-5 4
5	Dimethyl ether		46 C2H6O	000115-10-6 2



Library Search Compound Report
GEL Laboratories, LLC

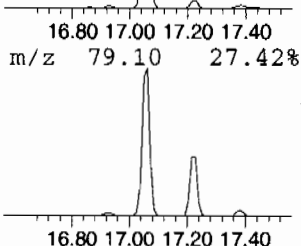
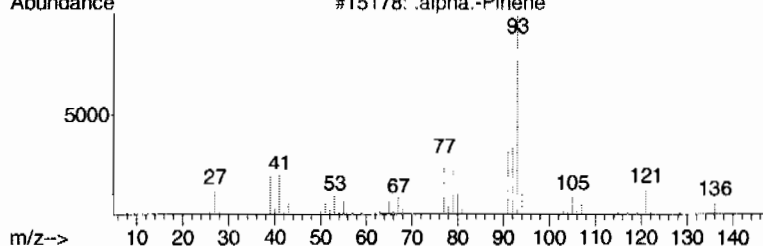
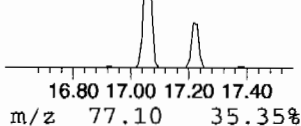
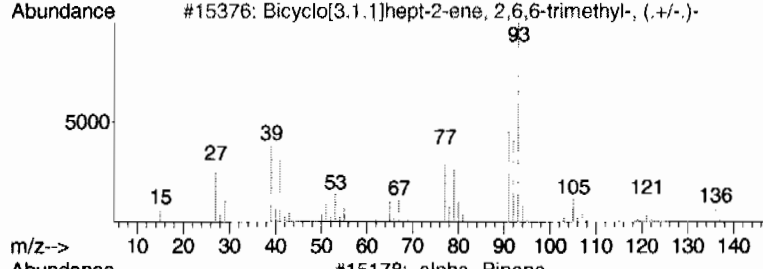
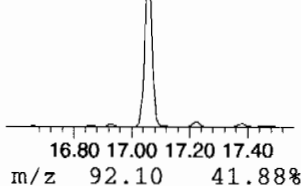
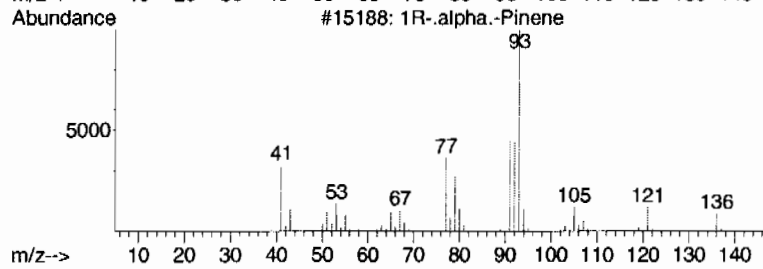
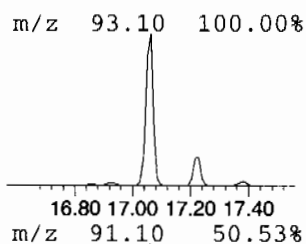
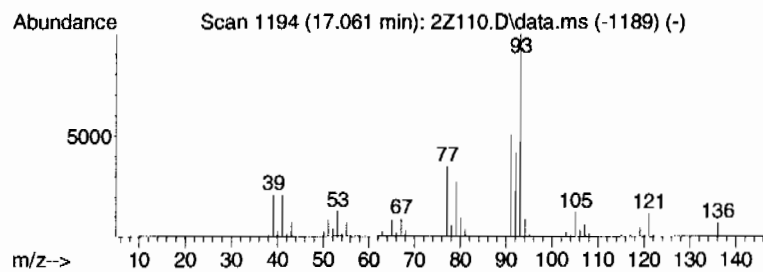
Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z110.D
Acq On : 15 Feb 2010 11:00 am
Operator : CDS1
Sample : |246434010|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 2 unknown hydrocarbon Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.	
17.061	10.61 ug/L	695318	B Chlorobenzene-d5	15.970	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1R-.alpha.-Pinene	136	C10H16	007785-70-8	97
2	Bicyclo[3.1.1]hept-2-ene, 2,6,6-...	136	C10H16	002437-95-8	95
3	.alpha.-Pinene	136	C10H16	000080-56-8	94
4	1,4-Cyclohexadiene, 1-methyl-4-(...	136	C10H16	000099-85-4	93
5	1R-.alpha.-Pinene	136	C10H16	007785-70-8	90



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z110.D
Acq On : 15 Feb 2010 11:00 am
Operator : CDS1
Sample : |246434010|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 10 Sample Multiplier: 1

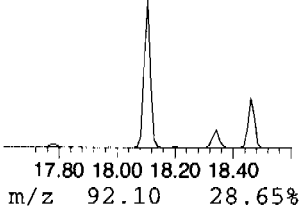
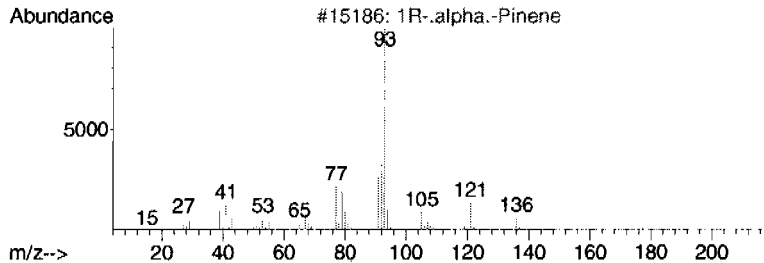
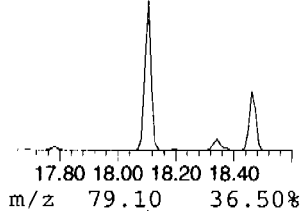
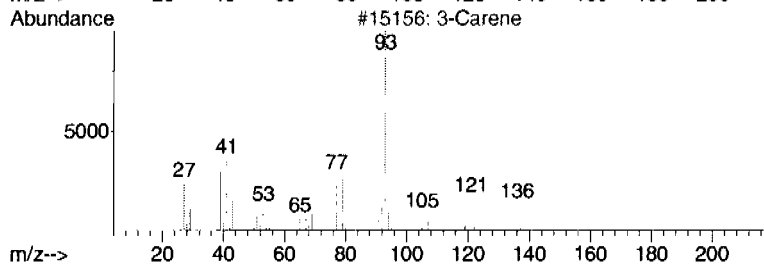
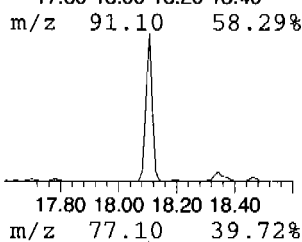
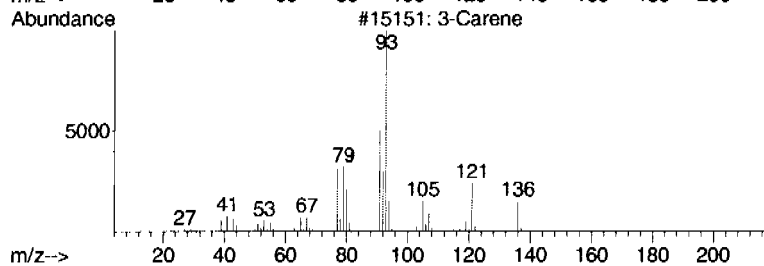
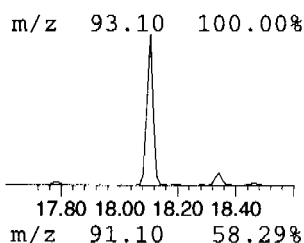
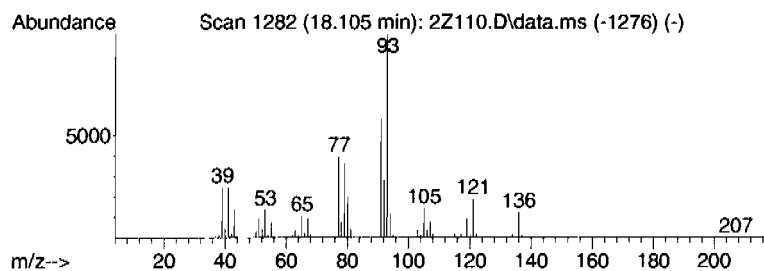
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 3 unknown hydrocarbon Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.105	12.13 ug/L	876938	1,4-Dichlorobenzene-d4	18.461

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Carene	136	C10H16	013466-78-9	95
2		3-Carene	136	C10H16	013466-78-9	94
3		1R-.alpha.-Pinene	136	C10H16	007785-70-8	90
4		1,4-Cyclohexadiene, 1-methyl-4-(...	136	C10H16	000099-85-4	90
5		3-Carene	136	C10H16	013466-78-9	90



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22110.D
Acq On : 15 Feb 2010 11:00 am
Operator : CDS1
Sample : |246434010|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 10 Sample Multiplier: 1

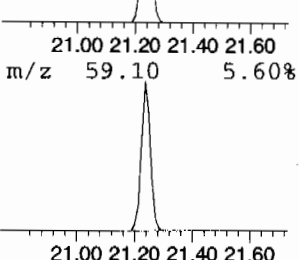
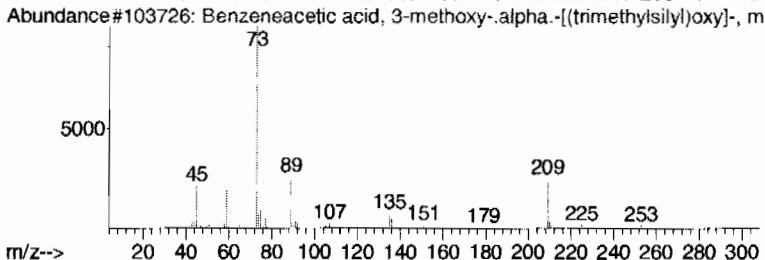
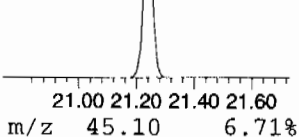
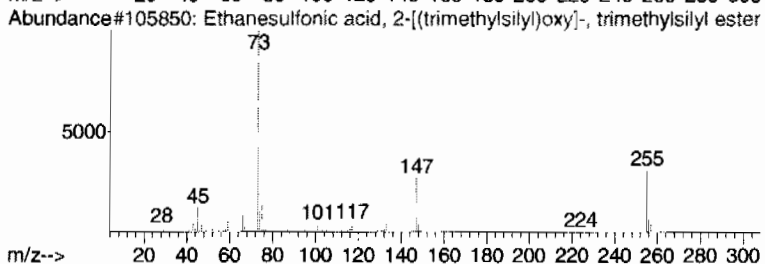
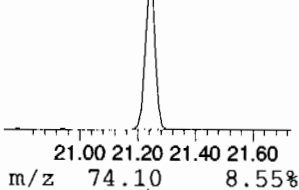
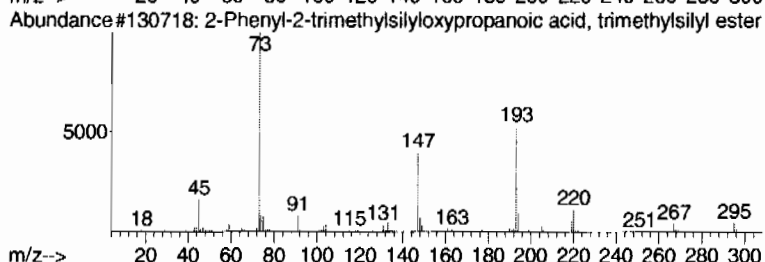
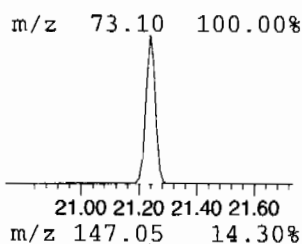
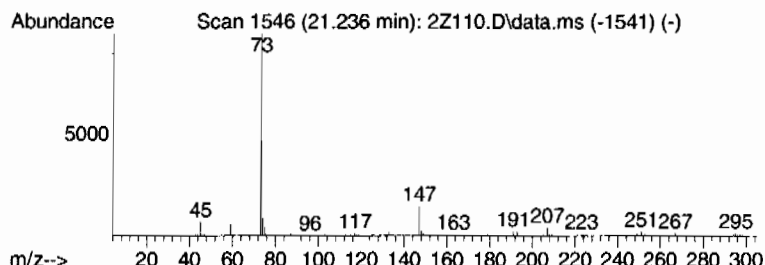
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 4 unknown siloxane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.236	16.53 ug/L	1194790	B 1,4-Dichlorobenzene-d4	18.461

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Phenyl-2-trimethylsilyloxyprop...	310	C15H26O3Si2	082326-12-3	38
2			Ethanesulfonic acid, 2-[(trimeth...	270	C8H22O4SSi2	067557-58-8	38
3			Benzeneacetic acid, 3-methoxy-.a...	268	C13H20O4Si	055590-93-7	35
4			3,6,9-Trioxa-2,10-disilaundecane...	250	C10H26O3Si2	016654-74-3	28
5			Butanoic acid, 3-methyl-2-[(trim...	262	C11H26O3Si2	055124-92-0	28



Tentatively Identified Compound (LSC) summary
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22110.D
Acq On : 15 Feb 2010 11:00 am
Operator : CDS1
Sample : |246434010|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown	4.316	23.7	ug/L	1351880	1	12.425	2852570	50.0
unknown hydroca...	17.061	10.6	ug/L	695318	4	15.970	3275250	50.0
unknown hydroca...	18.105	12.1	ug/L	876938	5	18.461	3614180	50.0
unknown siloxane	21.236	16.5	ug/L	1194790	6	18.461	3614180	50.0

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434013	Date Received: 02/06/2010 09:15	%Moisture: 11.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8337	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.1	Dilution: 1
Run Date: 02/15/2010 11:59	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/15/2010 08:05	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021510V2.b\2Z112.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.13	ug/kg	0.384	1.13
74-87-3	Chloromethane	U	1.13	ug/kg	0.339	1.13
75-01-4	Vinyl chloride	U	1.13	ug/kg	0.339	1.13
74-83-9	Bromomethane	U	1.13	ug/kg	0.339	1.13
75-00-3	Chloroethane	U	1.13	ug/kg	0.339	1.13
75-69-4	Trichlorofluoromethane	U	1.13	ug/kg	0.339	1.13
67-64-1	Acetone	U	5.64	ug/kg	1.87	5.64
75-35-4	1,1-Dichloroethylene	U	1.13	ug/kg	0.339	1.13
74-88-4	Iodomethane	U	5.64	ug/kg	1.81	5.64
75-09-2	Methylene chloride	U	5.64	ug/kg	2.26	5.64
75-15-0	Carbon disulfide	U	5.64	ug/kg	1.41	5.64
156-60-5	trans-1,2-Dichloroethylene	U	1.13	ug/kg	0.339	1.13
75-34-3	1,1-Dichloroethane	U	1.13	ug/kg	0.339	1.13
78-93-3	2-Butanone	U	5.64	ug/kg	1.69	5.64
156-59-2	cis-1,2-Dichloroethylene	U	1.13	ug/kg	0.339	1.13
594-20-7	2,2-Dichloropropane	U	1.13	ug/kg	0.339	1.13
67-66-3	Chloroform	U	1.13	ug/kg	0.339	1.13
74-97-5	Bromochloromethane	U	1.13	ug/kg	0.373	1.13
71-55-6	1,1,1-Trichloroethane	U	1.13	ug/kg	0.339	1.13
563-58-6	1,1-Dichloropropene	U	1.13	ug/kg	0.339	1.13
56-23-5	Carbon tetrachloride	U	1.13	ug/kg	0.339	1.13
107-06-2	1,2-Dichloroethane	U	1.13	ug/kg	0.339	1.13
71-43-2	Benzene	U	1.13	ug/kg	0.339	1.13
79-01-6	Trichloroethylene	U	1.13	ug/kg	0.373	1.13
78-87-5	1,2-Dichloropropane	U	1.13	ug/kg	0.339	1.13
75-27-4	Bromodichloromethane	U	1.13	ug/kg	0.339	1.13
74-95-3	Dibromomethane	U	1.13	ug/kg	0.339	1.13
108-10-1	4-Methyl-2-pentanone	U	5.64	ug/kg	1.41	5.64
10061-01-5	cis-1,3-Dichloropropylene	U	1.13	ug/kg	0.339	1.13
108-88-3	Toluene	U	1.13	ug/kg	0.339	1.13
10061-02-6	trans-1,3-Dichloropropylene	U	1.13	ug/kg	0.339	1.13
79-00-5	1,1,2-Trichloroethane	U	1.13	ug/kg	0.339	1.13
591-78-6	2-Hexanone	U	5.64	ug/kg	1.69	5.64
142-28-9	1,3-Dichloropropane	U	1.13	ug/kg	0.339	1.13
127-18-4	Tetrachloroethylene	U	1.13	ug/kg	0.339	1.13
124-48-1	Dibromochloromethane	U	1.13	ug/kg	0.339	1.13
106-93-4	1,2-Dibromoethane	U	1.13	ug/kg	0.339	1.13
108-90-7	Chlorobenzene	U	1.13	ug/kg	0.339	1.13

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434013	Date Received: 02/06/2010 09:15	%Moisture: 11.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8337	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: J
Run Date: 02/15/2010 11:59	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/15/2010 08:05	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021510V2.b\2Z112.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.13	ug/kg	0.339	1.13
179601-23-1	m,p-Xylenes	U	2.26	ug/kg	0.339	2.26
95-47-6	o-Xylene	U	1.13	ug/kg	0.339	1.13
100-42-5	Styrene	U	1.13	ug/kg	0.339	1.13
75-25-2	Bromoform	U	1.13	ug/kg	0.339	1.13
79-34-5	1,1,2,2-Tetrachloroethane	U	1.13	ug/kg	0.339	1.13
96-18-4	1,2,3-Trichloropropane	U	1.13	ug/kg	0.339	1.13
108-86-1	Bromobenzene	U	1.13	ug/kg	0.339	1.13
103-65-1	n-Propylbenzene	U	1.13	ug/kg	0.339	1.13
95-49-8	2-Chlorotoluene	U	1.13	ug/kg	0.339	1.13
98-82-8	Isopropylbenzene	U	1.13	ug/kg	0.339	1.13
108-67-8	1,3,5-Trimethylbenzene	U	1.13	ug/kg	0.339	1.13
106-43-4	4-Chlorotoluene	U	1.13	ug/kg	0.339	1.13
98-06-6	tert-Butylbenzene	U	1.13	ug/kg	0.339	1.13
95-63-6	1,2,4-Trimethylbenzene	U	1.13	ug/kg	0.339	1.13
135-98-8	sec-Butylbenzene	U	1.13	ug/kg	0.339	1.13
99-87-6	4-Isopropyltoluene	U	1.13	ug/kg	0.339	1.13
541-73-1	1,3-Dichlorobenzene	U	1.13	ug/kg	0.339	1.13
106-46-7	1,4-Dichlorobenzene	U	1.13	ug/kg	0.339	1.13
104-51-8	n-Butylbenzene	U	1.13	ug/kg	0.339	1.13
96-12-8	1,2-Dibromo-3-chloropropane	U	1.13	ug/kg	0.339	1.13
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.64	ug/kg	1.81	5.64
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.13	ug/kg	0.339	1.13
95-50-1	1,2-Dichlorobenzene	U	1.13	ug/kg	0.339	1.13

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.33	21.2	ug/kg	0	J
	unknown siloxane	19.16	10.8	ug/kg	0	J

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22112.D
Acq On : 15 Feb 2010 11:59 am
Operator : CDS1
InstName : VOA2
Sample : |246434013|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 15 13:18:32 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev(Min)
1) Fluorobenzene	12.425	12.437	1.000	96	1146961	50.00	ug/L	-0.01
41) Chlorobenzene-d5	15.970	15.970	1.000	117	872432	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	497674	50.00	ug/L	0.00
82) B Fluorobenzene	12.425	12.437	1.000	96	1146707	50.00	ug/L	-0.01
103) B Chlorobenzene-d5	15.970	15.971	1.000	117	872909	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	497976	50.00	ug/L	0.00
System Monitoring Compounds								Dev(Min)
29) 1,2-Dichloroethane-d4	11.974	11.986	0.964	65	577064	53.55	ug/L	-0.01
Spiked Amount	50.000	Range 66 - 134	Recovery	=	107.10%			
43) Toluene-d8	14.346	14.346	0.898	98	1120488	48.04	ug/L	0.00
Spiked Amount	50.000	Range 71 - 128	Recovery	=	96.08%			
61) Bromofluorobenzene	17.227	17.227	0.933	95	541466	50.70	ug/L	0.00
Spiked Amount	50.000	Range 65 - 130	Recovery	=	101.40%			
Target Compounds	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	QValue
2) Dichlorodifluoromethane	0.000	4.702	0.000		0	N.D.		
3) Chloromethane	4.984	4.999	0.401	50	140	N.D.		
4) Vinyl chloride	5.252	5.266	0.423	62	743	N.D.		
5) Bromomethane	0.000	5.980	0.000		0	N.D.		
6) Chloroethane	0.000	6.223	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000	6.839	0.000		0	N.D.		
8) Ethyl ether	0.000	7.409	0.000		0	N.D.		
9) Acetone	7.990	7.930	0.643	43	1212	N.D.		
10) 1,1-Dichloroethylene	0.000	7.883	0.000		0	N.D.		
11) Iodomethane	0.000	8.167	0.000		0	N.D.		
12) Acetonitrile	8.476	8.452	0.682	41	108	N.D.		
13) Methyl acetate	0.000	8.571	0.000		0	N.D.		
14) Carbon disulfide	8.286	8.322	0.667	76	372	N.D.		
15) Methylene chloride	8.749	8.772	0.704	84	8126	N.D.		
16) tert-Butyl methyl ether	0.000	9.282	0.000		0	N.D.		
17) trans-1,2-Dichloroethy...	0.000	9.270	0.000		0	N.D.		
18) Vinyl acetate	0.000	10.017	0.000		0	N.D.		
19) 1,1-Dichloroethane	0.000	9.958	0.000		0	N.D.		
20) 2-Butanone	0.000	10.836	0.000		0	N.D.		
21) cis-1,2-Dichloroethylene	0.000	10.848	0.000		0	N.D.		
22) 2,2-Dichloropropane	0.000	10.871	0.000		0	N.D.		
23) Bromochloromethane	0.000	11.203	0.000		0	N.D.		
24) Chloroform	11.286	11.298	0.908	83	164	N.D.		
25) 1,1,1-Trichloroethane	0.000	11.606	0.000		0	N.D.		
26) Cyclohexane	0.000	11.713	0.000		0	N.D.		
27) 1,1-Dichloropropene	0.000	11.820	0.000		0	N.D.		
28) Carbon tetrachloride	0.000	11.844	0.000		0	N.D.		
30) 1,2-Dichloroethane	0.000	12.093	0.000		0	N.D.		
31) Benzene	12.081	12.093	0.972	78	397	N.D.		
32) Cyclohexene	0.000	12.247	0.000		0	N.D.		
33) n-Butyl alcohol	0.000	12.697	0.000		0	N.D.		
34) Trichloroethylene	12.887	12.899	1.037	95	241	N.D.		
35) 1,2-Dichloropropane	0.000	13.172	0.000		0	N.D.		
36) Methylcyclohexane	0.000	13.184	0.000		0	N.D.		
37) Dibromomethane	0.000	13.314	0.000		0	N.D.		

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22112.D
Acq On : 15 Feb 2010 11:59 am
Operator : CDS1
InstName : VOA2
Sample : |246434013|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 15 13:18:32 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
38) Bromodichloromethane	0.000	13.480	0.000		0	N.D.	
39) 2-Chloroethylvinyl ether	0.000	13.800	0.000		0	N.D.	
40) cis-1,3-Dichloropropylene	0.000	14.002	0.000		0	N.D.	
42) 4-Methyl-2-pentanone	0.000	14.144	0.000		0	N.D.	
44) Toluene	14.417	14.429	0.903	91	778	N.D.	
45) trans-1,3-Dichloroprop...	0.000	14.618	0.000		0	N.D.	
46) 1,1,2-Trichloroethane	0.000	14.844	0.000		0	N.D.	
47) 2-Hexanone	15.069	15.069	0.944	43	115	N.D.	
48) 1,3-Dichloropropane	0.000	15.045	0.000		0	N.D.	
49) Tetrachloroethylene	0.000	15.069	0.000		0	N.D.	
50) Dibromochloromethane	0.000	15.318	0.000		0	N.D.	
51) 1,2-Dibromoethane	0.000	15.472	0.000		0	N.D.	
52) Chlorobenzene	16.006	16.006	1.002	112	248	N.D.	
53) 1,1,1,2-Tetrachloroethane	0.000	16.077	0.000		0	N.D.	
54) Ethylbenzene	16.101	16.101	1.008	91	1232	N.D.	
55) m,p-Xylenes	16.208	16.219	1.015	106	488	N.D.	
56) o-Xylene	0.000	16.658	0.000		0	N.D.	
57) Styrene	0.000	16.658	0.000		0	N.D.	
59) Bromoform	0.000	16.895	0.000		0	N.D.	
60) Isopropylbenzene	0.000	17.038	0.000		0	N.D.	
62) 1,1,2,2-Tetrachloroethane	0.000	17.310	0.000		0	N.D.	
63) 1,2,3-Trichloropropane	0.000	17.393	0.000		0	N.D.	
64) Bromobenzene	0.000	17.429	0.000		0	N.D.	
65) n-Propylbenzene	17.477	17.476	0.947	91	147	N.D.	
66) 1,3,5-Trimethylbenzene	0.000	17.642	0.000		0	N.D.	
67) 2-Chlorotoluene	0.000	17.607	0.000		0	N.D.	
68) 4-Chlorotoluene	17.714	17.714	0.960	91	568	N.D.	
69) tert-Butylbenzene	0.000	18.010	0.000		0	N.D.	
70) 1,2,4-Trimethylbenzene	18.058	18.057	0.978	105	356	N.D.	
71) sec-Butylbenzene	0.000	18.235	0.000		0	N.D.	
72) 4-Isopropyltoluene	18.461	18.366	1.000	119	118	N.D.	
73) 1,3-Dichlorobenzene	18.401	18.401	0.997	146	352	N.D.	
74) 1,4-Dichlorobenzene	18.496	18.496	1.002	146	627	N.D.	
75) n-Butylbenzene	0.000	18.805	0.000		0	N.D.	
76) 1,2-Dichlorobenzene	18.900	18.899	1.024	146	296	N.D.	
77) 1,2-Dibromo-3-chloropr...	0.000	19.718	0.000		0	N.D.	
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	416	N.D.	
79) Hexachlorobutadiene	0.000	20.868	0.000		0	N.D.	
80) Naphthalene	21.034	21.022	1.139	128	1098	N.D.	
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156	180	153	N.D.	
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.	
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.	
85) Acrolein	0.000	7.646	0.000		0	N.D.	
86) Trichlorotrifluoroethane	0.000	7.930	0.000		0	N.D.	
87) Isopropyl Alcohol	0.000	8.191	0.000		0	N.D.	
88) Allyl chloride	8.476	8.559	0.682	41	108	N.D.	
89) tert-Butyl Alcohol	8.927	8.938	0.718	59	550	N.D.	
90) Acrylonitrile	0.000	9.164	0.000		0	N.D.	
91) Isopropyl ether	0.000	10.077	0.000		0	N.D.	
92) 2-Chloro-1,3-butadiene	0.000	10.124	0.000		0	N.D.	
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.	
94) Ethyl acetate	0.000	10.919	0.000		0	N.D.	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22112.D
Acq On : 15 Feb 2010 11:59 am
Operator : CDS1
InstName : VOA2
Sample : |246434013|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 15 13:18:32 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

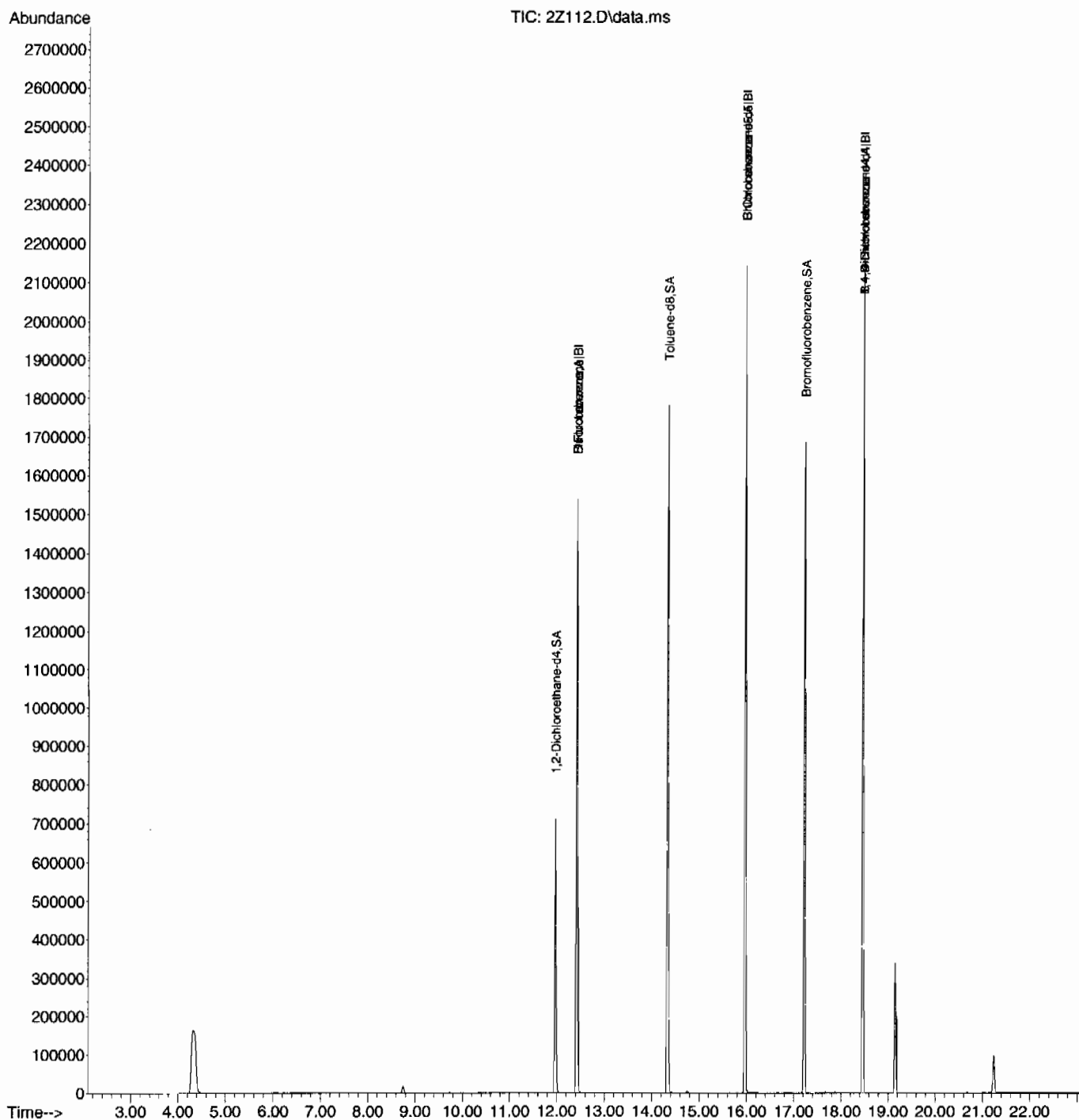
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	0.000	10.907	0.000		0	N.D.	
96) Methacrylonitrile	0.000	11.144	0.000		0	N.D.	
97) Tetrahydrofuran	11.275	11.275	0.907	42	609	N.D.	
98) Isobutyl alcohol	11.974	11.856	0.964	41	128	N.D.	
99) Methyl tert-amyl ether	0.000	12.211	0.000		0	N.D.	
100) Methyl methacrylate	0.000	13.243	0.000		0	N.D.	
101) 1,4-Dioxane	0.000	13.314	0.000		0	N.D.	
102) 2-Nitropropane	0.000	13.729	0.000		0	N.D.	
104) Ethyl methacrylate	0.000	14.678	0.000		0	N.D.	
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	0.000	17.073	0.000		0	N.D.	
108) Cyclohexanone	0.000	17.156	0.000		0	N.D.	
109) trans-1,4-Dichloro-2-b...	0.000	17.370	0.000		0	N.D.	
110) Pentachloroethane	0.000	18.058	0.000		0	N.D.	
111) Benzyl chloride	18.615	18.603	1.008	91	295	N.D.	
112) bis(2-Chloroisopropyl)...	0.000	19.018	0.000		0m	N.D.	d

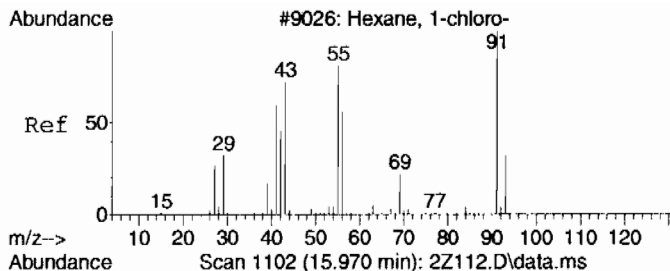
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z112.D
Acq On : 15 Feb 2010 11:59 am
Operator : CDS1
InstName : VOA2
Sample : |246434013|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 12 Sample Multiplier: 1

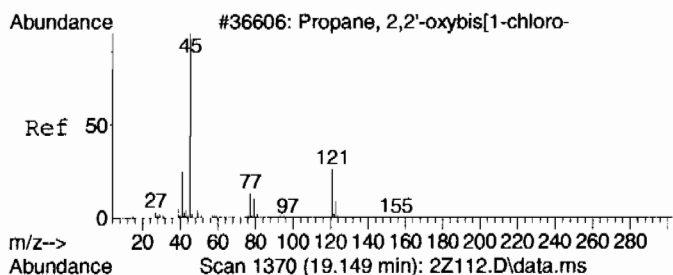
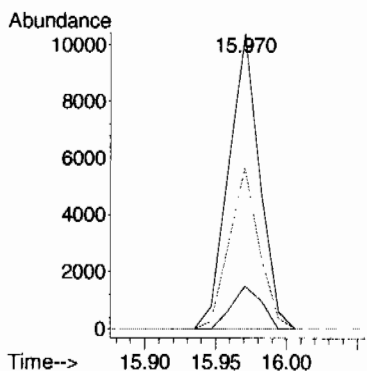
Quant Time: Feb 15 13:18:32 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE





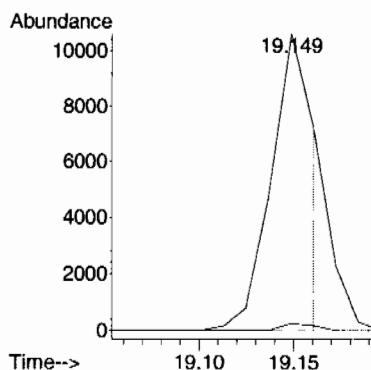
#106 BEFORE analyst DELETION
1-Chlorohexane
Concen: 2.25 ug/L
RT: 15.970 min Scan# 1102
Delta R.T. 0.059 min
Lab File: 2Z112.D
Acq: 15 Feb 2010 11:59 am

Tgt Ion	Ratio	Lower	Upper
55	100		
91	14.2	66.2	126.2#
56	52.9	26.7	86.7



#112 BEFORE analyst DELETION
bis(2-Chloroisopropyl)ether
Concen: 4.15 ug/L
RT: 19.149 min Scan# 1370
Delta R.T. 0.131 min
Lab File: 2Z112.D
Acq: 15 Feb 2010 11:59 am

Tgt Ion	Ratio	Lower	Upper
45	100		
121	1.9	0.0	50.1



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22112.D
Acq On : 15 Feb 2010 11:59 am
Operator : CDS1
Sample : |246434013|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 12 Sample Multiplier: 1

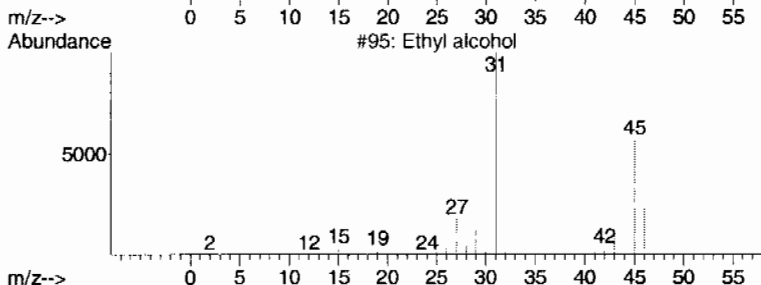
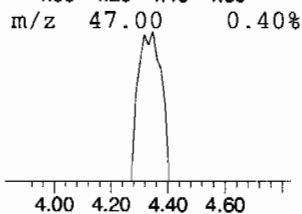
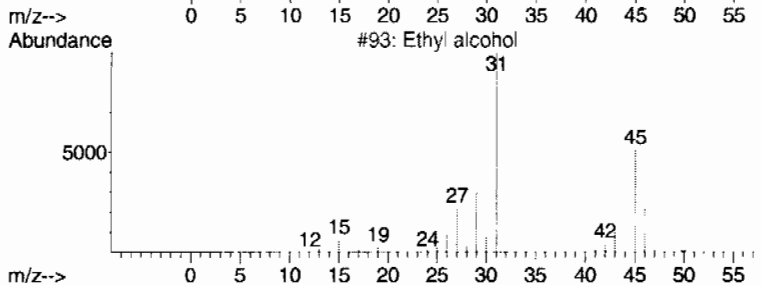
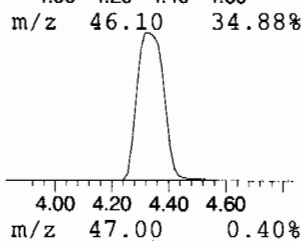
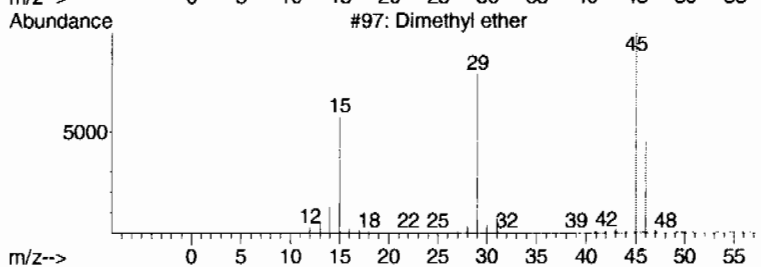
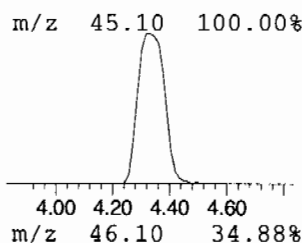
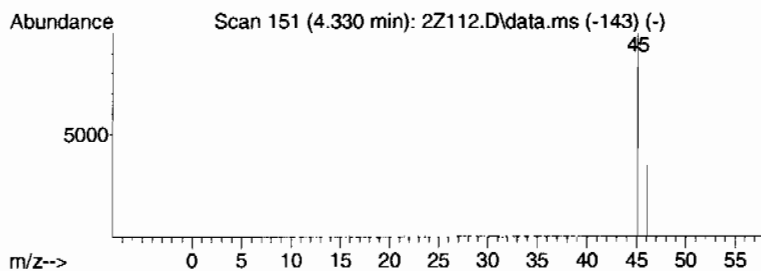
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.330	18.80 ug/L	1077780	Fluorobenzene	12.425

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Dimethyl ether	46	C2H6O	000115-10-6	5
2			Ethyl alcohol	46	C2H6O	000064-17-5	4
3			Ethyl alcohol	46	C2H6O	000064-17-5	4
4			Ethyl alcohol	46	C2H6O	000064-17-5	4
5			Formic acid	46	CH2O2	000064-18-6	3



Page: 2

Tentatively Identified Compound (LSC) summary
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22112.D
Acq On : 15 Feb 2010 11:59 am
Operator : CDS1
Sample : |246434013|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard---			
					#	RT	Resp	Conc
unknown	4.330	18.8	ug/L	1077780	1	12.425	2867190	50.0
unknown siloxane	19.160	9.6	ug/L	692904	6	18.461	3604640	50.0

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434015
 Client ID: RE15-10-8374
 Batch ID: 952586
 Run Date: 02/15/2010 12:27
 Prep Date: 02/15/2010 08:06
 Data File: 021510V2.b\2Z113.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 6.3
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.07	ug/kg	0.363	1.07
74-87-3	Chloromethane	U	1.07	ug/kg	0.320	1.07
75-01-4	Vinyl chloride	U	1.07	ug/kg	0.320	1.07
74-83-9	Bromomethane	U	1.07	ug/kg	0.320	1.07
75-00-3	Chloroethane	U	1.07	ug/kg	0.320	1.07
75-69-4	Trichlorofluoromethane	U	1.07	ug/kg	0.320	1.07
67-64-1	Acetone		48.4	ug/kg	1.77	5.34
75-35-4	1,1-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
74-88-4	Iodomethane	U	5.34	ug/kg	1.71	5.34
75-09-2	Methylene chloride	U	5.34	ug/kg	2.13	5.34
75-15-0	Carbon disulfide	U	5.34	ug/kg	1.33	5.34
156-60-5	trans-1,2-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
75-34-3	1,1-Dichloroethane	U	1.07	ug/kg	0.320	1.07
78-93-3	2-Butanone	U	5.34	ug/kg	1.60	5.34
156-59-2	cis-1,2-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
594-20-7	2,2-Dichloropropane	U	1.07	ug/kg	0.320	1.07
67-66-3	Chloroform	U	1.07	ug/kg	0.320	1.07
74-97-5	Bromochloromethane	U	1.07	ug/kg	0.352	1.07
71-55-6	1,1,1-Trichloroethane	U	1.07	ug/kg	0.320	1.07
563-58-6	1,1-Dichloropropene	U	1.07	ug/kg	0.320	1.07
56-23-5	Carbon tetrachloride	U	1.07	ug/kg	0.320	1.07
107-06-2	1,2-Dichloroethane	U	1.07	ug/kg	0.320	1.07
71-43-2	Benzene	U	1.07	ug/kg	0.320	1.07
79-01-6	Trichloroethylene	U	1.07	ug/kg	0.352	1.07
78-87-5	1,2-Dichloropropane	U	1.07	ug/kg	0.320	1.07
75-27-4	Bromodichloromethane	U	1.07	ug/kg	0.320	1.07
74-95-3	Dibromomethane	U	1.07	ug/kg	0.320	1.07
108-10-1	4-Methyl-2-pentanone	U	5.34	ug/kg	1.33	5.34
10061-01-5	cis-1,3-Dichloropropylene	U	1.07	ug/kg	0.320	1.07
108-88-3	Toluene	U	1.07	ug/kg	0.320	1.07
10061-02-6	trans-1,3-Dichloropropylene	U	1.07	ug/kg	0.320	1.07
79-00-5	1,1,2-Trichloroethane	U	1.07	ug/kg	0.320	1.07
591-78-6	2-Hexanone	U	5.34	ug/kg	1.60	5.34
142-28-9	1,3-Dichloropropane	U	1.07	ug/kg	0.320	1.07
127-18-4	Tetrachloroethylene	U	1.07	ug/kg	0.320	1.07
124-48-1	Dibromochloromethane	U	1.07	ug/kg	0.320	1.07
106-93-4	1,2-Dibromoethane	U	1.07	ug/kg	0.320	1.07
108-90-7	Chlorobenzene	U	1.07	ug/kg	0.320	1.07

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434015
 Client ID: RE15-10-8374
 Batch ID: 952586
 Run Date: 02/15/2010 12:27
 Prep Date: 02/15/2010 08:06
 Data File: 021510V2.b\22113.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 6.3
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.07	ug/kg	0.320	1.07
179601-23-1	m,p-Xylenes	U	2.13	ug/kg	0.320	2.13
95-47-6	o-Xylene	U	1.07	ug/kg	0.320	1.07
100-42-5	Styrene	U	1.07	ug/kg	0.320	1.07
75-25-2	Bromoform	U	1.07	ug/kg	0.320	1.07
79-34-5	1,1,2,2-Tetrachloroethane	U	1.07	ug/kg	0.320	1.07
96-18-4	1,2,3-Trichloropropane	U	1.07	ug/kg	0.320	1.07
108-86-1	Bromobenzene	U	1.07	ug/kg	0.320	1.07
103-65-1	n-Propylbenzene	U	1.07	ug/kg	0.320	1.07
95-49-8	2-Chlorotoluene	U	1.07	ug/kg	0.320	1.07
98-82-8	Isopropylbenzene	U	1.07	ug/kg	0.320	1.07
108-67-8	1,3,5-Trimethylbenzene	U	1.07	ug/kg	0.320	1.07
106-43-4	4-Chlorotoluene	U	1.07	ug/kg	0.320	1.07
98-06-6	tert-Butylbenzene	U	1.07	ug/kg	0.320	1.07
95-63-6	1,2,4-Trimethylbenzene	U	1.07	ug/kg	0.320	1.07
135-98-8	sec-Butylbenzene	U	1.07	ug/kg	0.320	1.07
99-87-6	4-Isopropyltoluene	J	0.459	ug/kg	0.320	1.07
541-73-1	1,3-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07
106-46-7	1,4-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07
104-51-8	n-Butylbenzene	U	1.07	ug/kg	0.320	1.07
96-12-8	1,2-Dibromo-3-chloropropane	U	1.07	ug/kg	0.320	1.07
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.34	ug/kg	1.71	5.34
630-20-6	1,1,1,2-Tetrachloroethane	U	1.07	ug/kg	0.320	1.07
95-50-1	1,2-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.33	33.7	ug/kg	0	J
	unknown hydrocarbon	17.05	14.4	ug/kg	0	J
	unknown hydrocarbon	18.11	11.3	ug/kg	0	J
	unknown siloxane	19.15	13	ug/kg	0	J
	unknown siloxane	21.24	18.2	ug/kg	0	J

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22113.D
Acq On : 15 Feb 2010 12:27 pm
Operator : CDS1
InstName : VOA2
Sample : |246434015|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 15 13:19:19 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev(Min)
1) Fluorobenzene	12.425	12.437	1.000	96	1096853	50.00	ug/L	-0.01
41) Chlorobenzene-d5	15.970	15.970	1.000	117	825140	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	493114	50.00	ug/L	0.00
82) B Fluorobenzene	12.425	12.437	1.000	96	1096850	50.00	ug/L	-0.01
103) B Chlorobenzene-d5	15.970	15.971	1.000	117	825095	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	493442	50.00	ug/L	0.00
System Monitoring Compounds								Dev(Min)
29) 1,2-Dichloroethane-d4	11.962	11.986	0.963	65	566378	54.96	ug/L	-0.02
Spiked Amount 50.000	Range 66	- 134	Recovery	=	109.92%			
43) Toluene-d8	14.334	14.346	0.898	98	1098737	49.80	ug/L	-0.01
Spiked Amount 50.000	Range 71	- 128	Recovery	=	99.60%			
61) Bromofluorobenzene	17.215	17.227	0.933	95	542949	51.30	ug/L	-0.01
Spiked Amount 50.000	Range 65	- 130	Recovery	=	102.60%			
Target Compounds								QValue
2) Dichlorodifluoromethane	0.000	4.702	0.000		0	N.D.		
3) Chloromethane	4.999	4.999	0.402	50	311	N.D.		
4) Vinyl chloride	5.251	5.266	0.423	62	679	N.D.		
5) Bromomethane	0.000	5.980	0.000		0	N.D.		
6) Chloroethane	0.000	6.223	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000	6.839	0.000		0	N.D.		
8) Ethyl ether	0.000	7.409	0.000		0	N.D.		
9) Acetone	7.918	7.930	0.637	43	200098	45.36	ug/L	95
10) 1,1-Dichloroethylene	0.000	7.883	0.000		0	N.D.		
11) Iodomethane	0.000	8.167	0.000		0	N.D.		
12) Acetonitrile	0.000	8.452	0.000		0	N.D.		
13) Methyl acetate	8.594	8.571	0.692	43	499	N.D.		
14) Carbon disulfide	8.298	8.322	0.668	76	569	N.D.		
15) Methylene chloride	8.748	8.772	0.704	84	8183	N.D.		
16) tert-Butyl methyl ether	0.000	9.282	0.000		0	N.D.		
17) trans-1,2-Dichloroethy...	0.000	9.270	0.000		0	N.D.		
18) Vinyl acetate	0.000	10.017	0.000		0	N.D.		
19) 1,1-Dichloroethane	0.000	9.958	0.000		0	N.D.		
20) 2-Butanone	10.836	10.836	0.872	43	1134	N.D.		
21) cis-1,2-Dichloroethylene	0.000	10.848	0.000		0	N.D.		
22) 2,2-Dichloropropane	0.000	10.871	0.000		0	N.D.		
23) Bromochloromethane	0.000	11.203	0.000		0	N.D.		
24) Chloroform	0.000	11.298	0.000		0	N.D.		
25) 1,1,1-Trichloroethane	0.000	11.606	0.000		0	N.D.		
26) Cyclohexane	0.000	11.713	0.000		0	N.D.		
27) 1,1-Dichloropropene	0.000	11.820	0.000		0	N.D.		
28) Carbon tetrachloride	0.000	11.844	0.000		0	N.D.		
30) 1,2-Dichloroethane	0.000	12.093	0.000		0	N.D.		
31) Benzene	12.093	12.093	0.973	78	115	N.D.		
32) Cyclohexene	0.000	12.247	0.000		0	N.D.		
33) n-Butyl alcohol	0.000	12.697	0.000		0	N.D.		
34) Trichloroethylene	0.000	12.899	0.000		0	N.D.		
35) 1,2-Dichloropropane	0.000	13.172	0.000		0	N.D.		
36) Methylcyclohexane	0.000	13.184	0.000		0	N.D.		
37) Dibromomethane	0.000	13.314	0.000		0	N.D.		

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z113.D
Acq On : 15 Feb 2010 12:27 pm
Operator : CDS1
InstName : VOA2
Sample : |246434015|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 15 13:19:19 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
38) Bromodichloromethane	0.000	13.480	0.000		0	N.D.	
39) 2-Chloroethylvinyl ether	0.000	13.800	0.000		0	N.D.	
40) cis-1,3-Dichloropropylene	0.000	14.002	0.000		0	N.D.	
42) 4-Methyl-2-pentanone	0.000	14.144	0.000		0	N.D.	
44) Toluene	14.417	14.429	0.903	91	4016	N.D.	
45) trans-1,3-Dichloroprop...	0.000	14.618	0.000		0	N.D.	
46) 1,1,2-Trichloroethane	0.000	14.844	0.000		0	N.D.	
47) 2-Hexanone	15.069	15.069	0.944	43	112	N.D.	
48) 1,3-Dichloropropane	0.000	15.045	0.000		0	N.D.	
49) Tetrachloroethylene	0.000	15.069	0.000		0	N.D.	
50) Dibromochloromethane	0.000	15.318	0.000		0	N.D.	
51) 1,2-Dibromoethane	0.000	15.472	0.000		0	N.D.	
52) Chlorobenzene	16.006	16.006	1.002	112	173	N.D.	
53) 1,1,1,2-Tetrachloroethane	0.000	16.077	0.000		0	N.D.	
54) Ethylbenzene	16.207	16.101	1.015	91	1218	N.D.	
55) m,p-Xylenes	16.207	16.219	1.015	106	334	N.D.	
56) o-Xylene	0.000	16.658	0.000		0	N.D.	
57) Styrene	16.658	16.658	1.043	104	1218	N.D.	
59) Bromoform	0.000	16.895	0.000		0	N.D.	
60) Isopropylbenzene	0.000	17.038	0.000		0m	N.D.	d
62) 1,1,2,2-Tetrachloroethane	0.000	17.310	0.000		0	N.D.	
63) 1,2,3-Trichloropropane	0.000	17.393	0.000		0	N.D.	
64) Bromobenzene	17.429	17.429	0.944	156	234	N.D.	
65) n-Propylbenzene	17.453	17.476	0.945	91	1091	N.D.	
66) 1,3,5-Trimethylbenzene	17.642	17.642	0.956	105	139	N.D.	
67) 2-Chlorotoluene	0.000	17.607	0.000		0	N.D.	
68) 4-Chlorotoluene	0.000	17.714	0.000		0m	N.D.	d
69) tert-Butylbenzene	0.000	18.010	0.000		0m	N.D.	d
70) 1,2,4-Trimethylbenzene	0.000	18.057	0.000		0m	N.D.	d
71) sec-Butylbenzene	18.342	18.235	0.994	105	1981	N.D.	
72) 4-Isopropyltoluene	18.366	18.366	0.995	119	9766	0.43 ug/L	# 41
73) 1,3-Dichlorobenzene	18.413	18.401	0.997	146	447	N.D.	
74) 1,4-Dichlorobenzene	18.496	18.496	1.002	146	1017	N.D.	
75) n-Butylbenzene	18.816	18.805	1.019	91	276	N.D.	
76) 1,2-Dichlorobenzene	18.899	18.899	1.024	146	404	N.D.	
77) 1,2-Dibromo-3-chloropr...	0.000	19.718	0.000		0	N.D.	
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	322	N.D.	
79) Hexachlorobutadiene	0.000	20.868	0.000		0	N.D.	
80) Naphthalene	21.034	21.022	1.139	128	1353	N.D.	
81) 1,2,3-Trichlorobenzene	21.354	21.342	1.157	180	107	N.D.	
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.	
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.	
85) Acrolein	0.000	7.646	0.000		0	N.D.	
86) Trichlorotrifluoroethane	0.000	7.930	0.000		0	N.D.	
87) Isopropyl Alcohol	8.215	8.191	0.661	45	3974	N.D.	
88) Allyl chloride	0.000	8.559	0.000		0	N.D.	
89) tert-Butyl Alcohol	8.938	8.938	0.719	59	383	N.D.	
90) Acrylonitrile	0.000	9.164	0.000		0	N.D.	
91) Isopropyl ether	0.000	10.077	0.000		0	N.D.	
92) 2-Chloro-1,3-butadiene	0.000	10.124	0.000		0	N.D.	
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.	
94) Ethyl acetate	10.836	10.919	0.872	43	1134	N.D.	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22113.D
Acq On : 15 Feb 2010 12:27 pm
Operator : CDS1
InstName : VOA2
Sample : |246434015|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 15 13:19:19 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

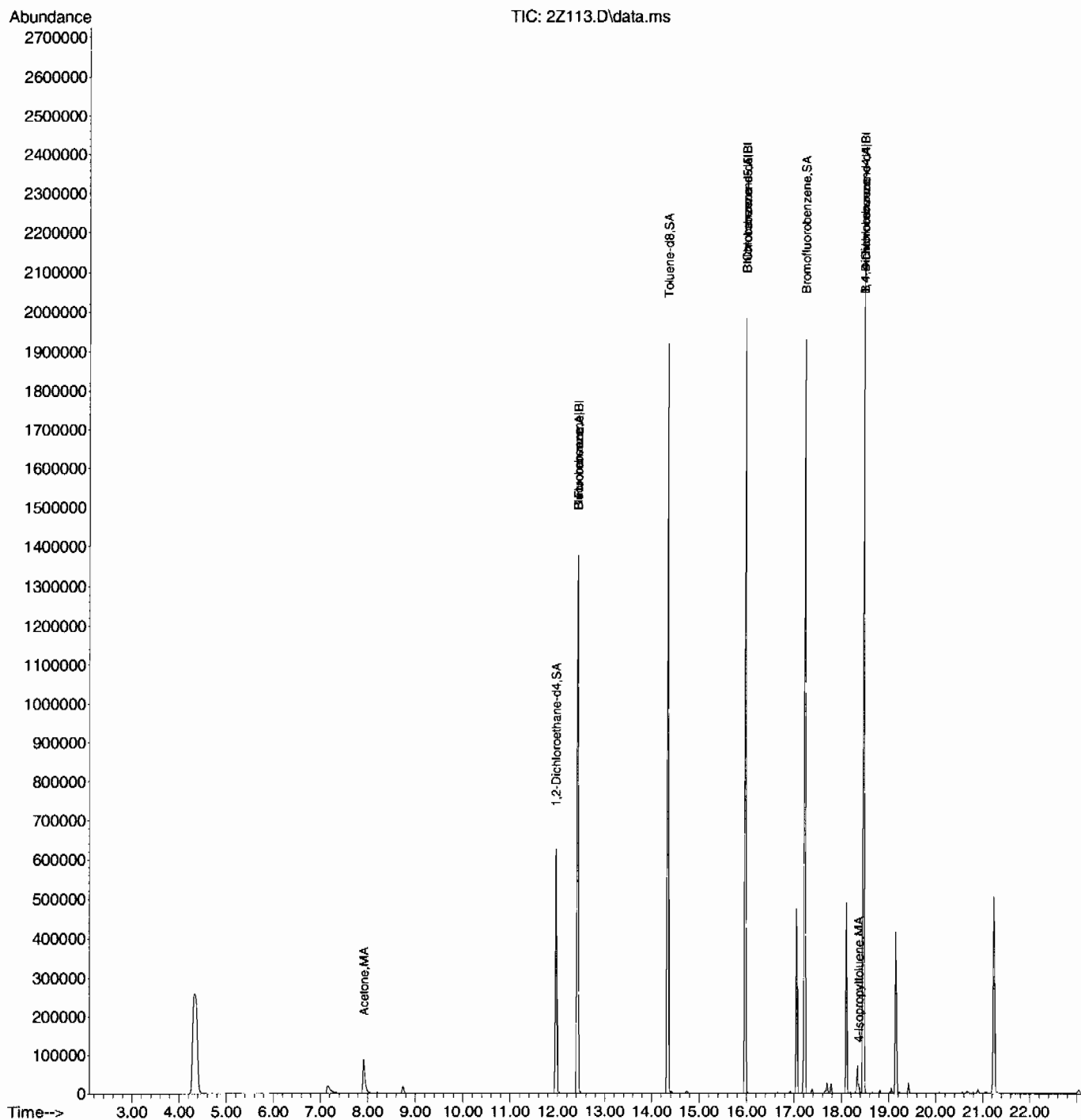
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	0.000	10.907	0.000		0	N.D.	
96) Methacrylonitrile	0.000	11.144	0.000		0	N.D.	
97) Tetrahydrofuran	11.262	11.275	0.906	42	332	N.D.	
98) Isobutyl alcohol	0.000	11.856	0.000		0	N.D.	
99) Methyl tert-amyl ether	0.000	12.211	0.000		0	N.D.	
100) Methyl methacrylate	0.000	13.243	0.000		0	N.D.	
101) 1,4-Dioxane	0.000	13.314	0.000		0	N.D.	
102) 2-Nitropropane	0.000	13.729	0.000		0	N.D.	
104) Ethyl methacrylate	0.000	14.678	0.000		0	N.D.	
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	0.000	17.073	0.000		0m	N.D.	d
108) Cyclohexanone	17.049	17.156	0.924	42	3193	N.D.	
109) trans-1,4-Dichloro-2-b...	17.370	17.370	0.941	53	641	N.D.	
110) Pentachloroethane	0.000	18.058	0.000		0	N.D.	
111) Benzyl chloride	18.615	18.603	1.008	91	282	N.D.	
112) bis(2-Chloroisopropyl)...	0.000	19.018	0.000		0m	N.D.	d

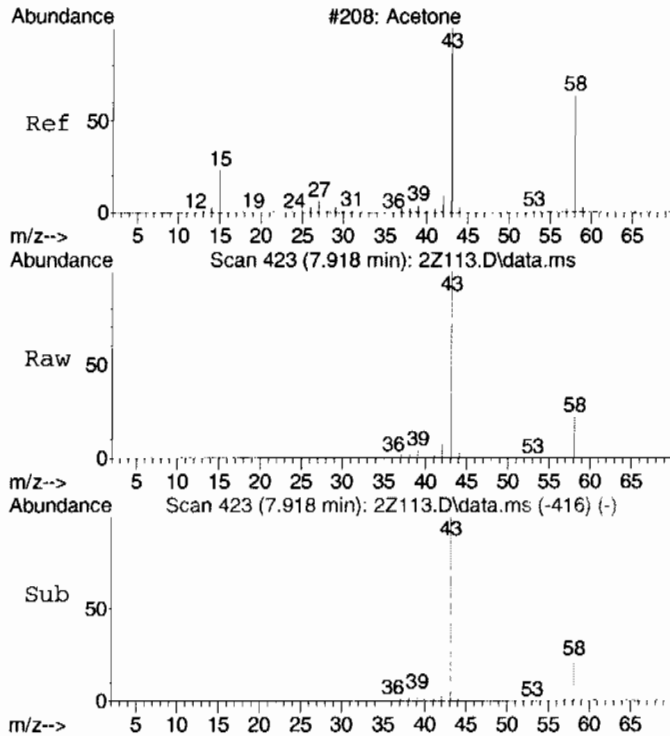
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z113.D
Acq On : 15 Feb 2010 12:27 pm
Operator : CDS1
InstName : VOA2
Sample : |246434015|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 15 13:19:19 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE





#9

Acetone

Concen: 45.36 ug/L

RT: 7.918 min Scan# 423

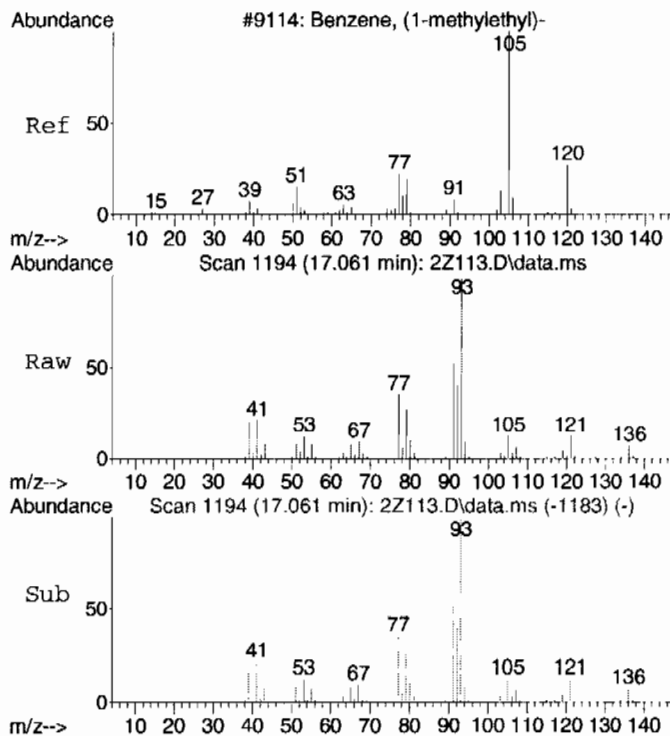
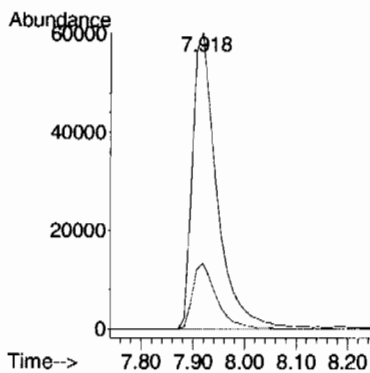
Delta R.T. -0.012 min

Lab File: 2Z113.D

Acq: 15 Feb 2010 12:27 pm

Tgt Ion: 43 Resp: 200098

Ion	Ratio	Lower	Upper
43	100		
58	21.8	0.0	54.1



#60 BEFORE analyst DELETION

Isopropylbenzene

Concen: 0.84 ug/L

RT: 17.061 min Scan# 1194

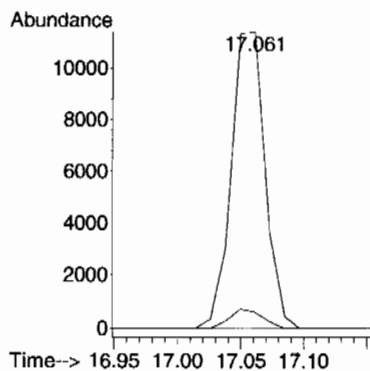
Delta R.T. 0.023 min

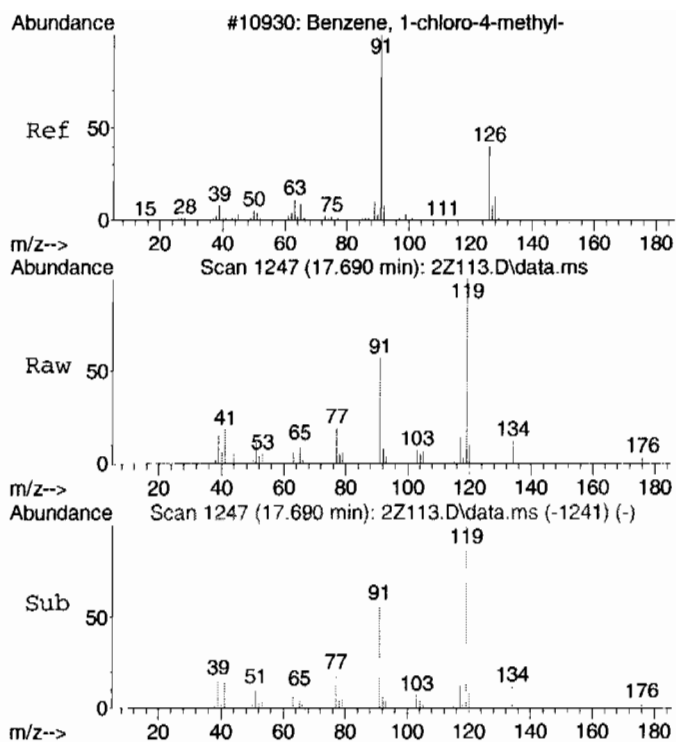
Lab File: 2Z113.D

Acq: 15 Feb 2010 12:27 pm

Tgt Ion: 105 Resp: 21452

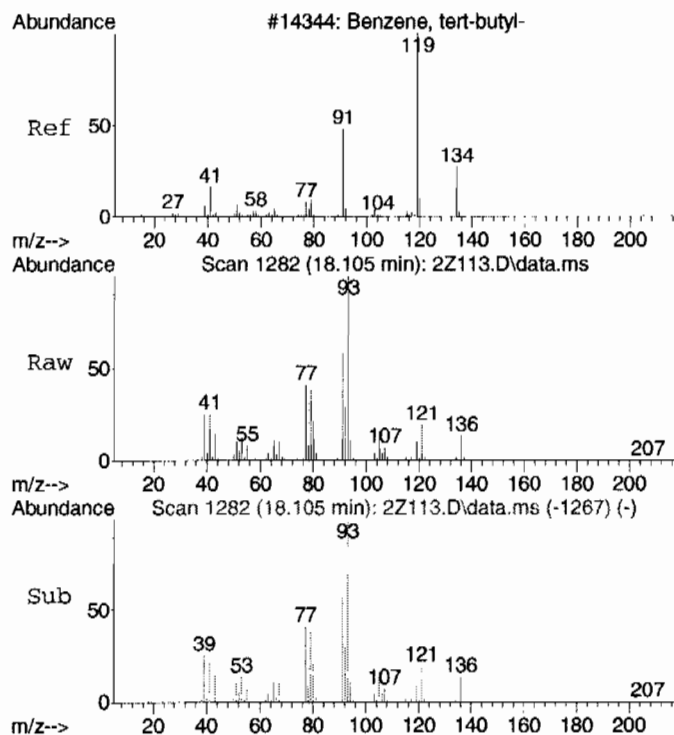
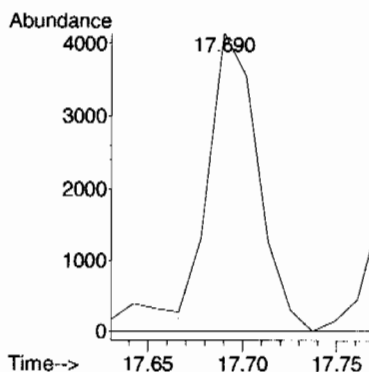
Ion	Ratio	Lower	Upper
105	100		
120	6.2	0.0	54.3





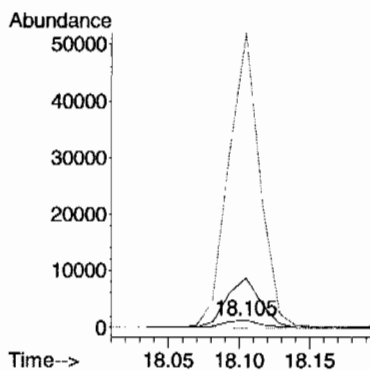
#68 BEFORE analyst DELETION
4-Chlorotoluene
Concen: 0.37 ug/L
RT: 17.690 min Scan# 1247
Delta R.T. -0.024 min
Lab File: 2Z113.D
Acq: 15 Feb 2010 12:27 pm

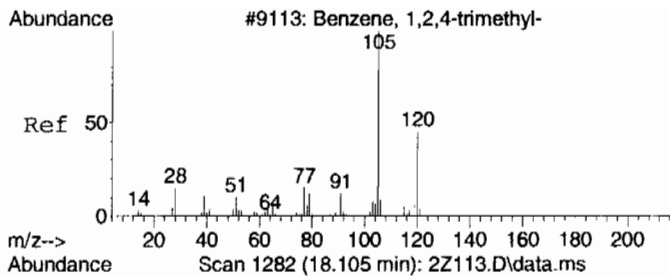
Tgt Ion	Ratio	Lower	Upper
91	100		
126	0.0	0.0	58.6



#69 BEFORE analyst DELETION
tert-Butylbenzene
Concen: 0.58 ug/L
RT: 18.105 min Scan# 1282
Delta R.T. 0.095 min
Lab File: 2Z113.D
Acq: 15 Feb 2010 12:27 pm

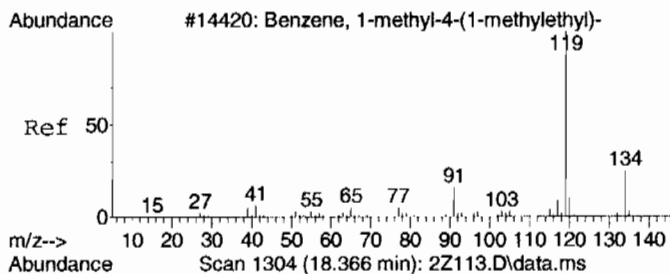
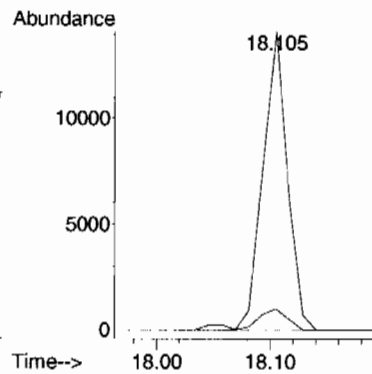
Tgt Ion	Ratio	Lower	Upper
134	100		
119	599.0	477.3	537.3#
91	3327.1	385.8	445.8#





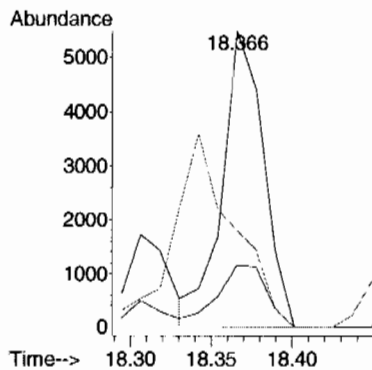
#70 BEFORE analyst DELETION
1,2,4-Trimethylbenzene
Concen: 0.92 ug/L
RT: 18.105 min Scan# 1282
Delta R.T. 0.048 min
Lab File: 2Z113.D
Acq: 15 Feb 2010 12:27 pm

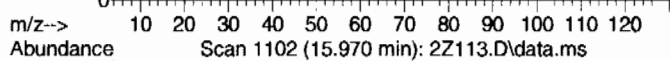
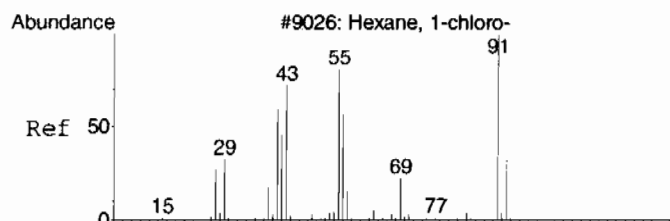
Tgt Ion	Ratio	Lower	Upper
105	100		
120	8.0	11.0	71.0#



#72
4-Isopropyltoluene
Concen: 0.43 ug/L
RT: 18.366 min Scan# 1304
Delta R.T. -0.000 min
Lab File: 2Z113.D
Acq: 15 Feb 2010 12:27 pm

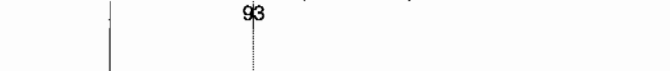
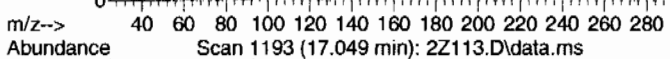
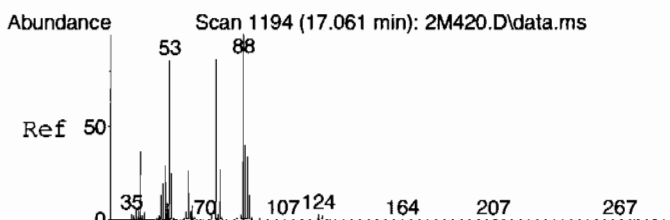
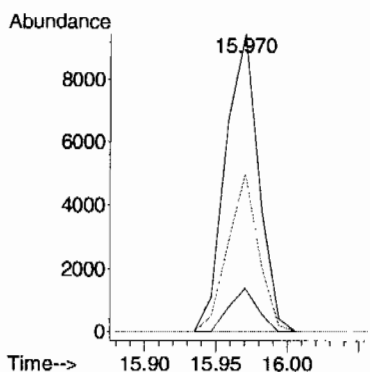
Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.2	0.0	54.1
91	84.5	0.0	58.1#





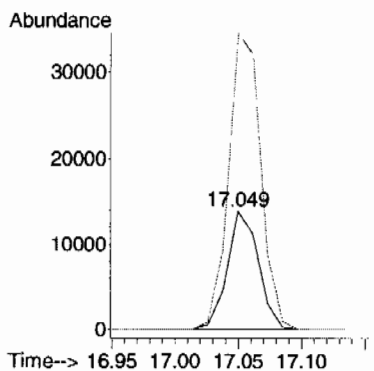
#106 BEFORE analyst DELETION
1-Chlorohexane
Concen: 2.20 ug/L
RT: 15.970 min Scan# 1102
Delta R.T. 0.059 min
Lab File: 2Z113.D
Acq: 15 Feb 2010 12:27 pm

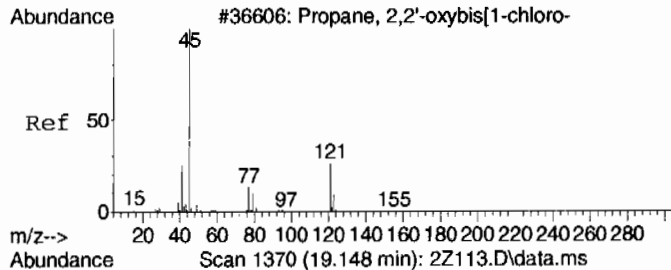
Tgt Ion	Ratio	Lower	Upper
55	100		
91	12.9	66.2	126.2#
56	49.2	26.7	86.7



#107 BEFORE analyst DELETION
cis-1,4-Dichloro-2-butene
Concen: 9.10 ug/L
RT: 17.049 min Scan# 1193
Delta R.T. -0.024 min
Lab File: 2Z113.D
Acq: 15 Feb 2010 12:27 pm

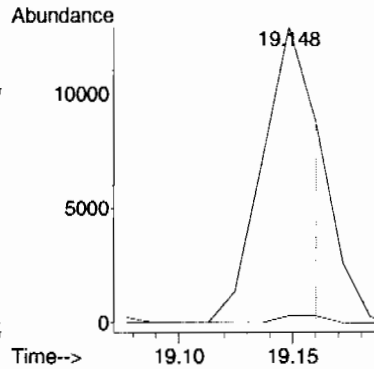
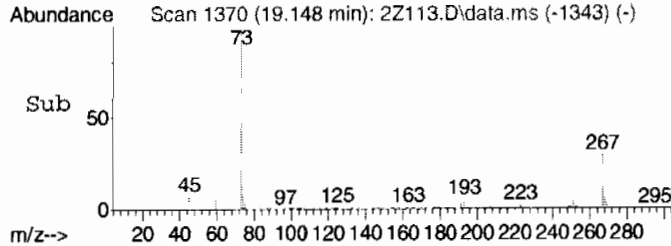
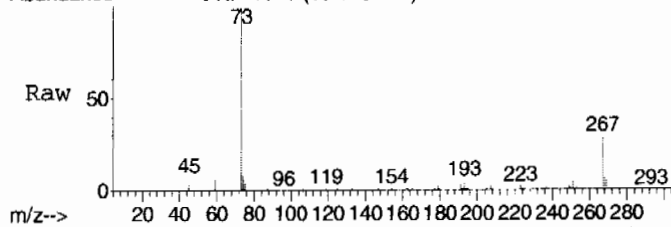
Tgt Ion	Ratio	Lower	Upper
53	100		
88	0.0	81.8	141.8#
77	257.7	0.0	51.3#





#112 BEFORE analyst DELETION
 bis(2-Chloroisopropyl)ether
 Concen: 5.36 ug/L
 RT: 19.148 min Scan# 1370
 Delta R.T. 0.130 min
 Lab File: 2Z113.D
 Acq: 15 Feb 2010 12:27 pm

Tgt Ion: 45 Resp: 21348
 Ion Ratio Lower Upper
 45 100
 121 2.1 0.0 50.1



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z113.D
Acq On : 15 Feb 2010 12:27 pm
Operator : CDS1
Sample : |246434015|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 13 Sample Multiplier: 1

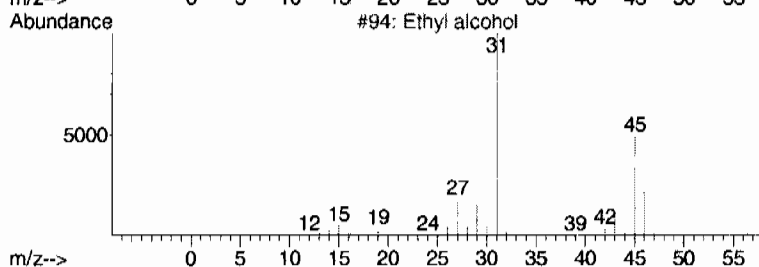
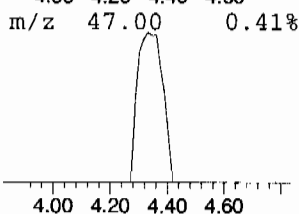
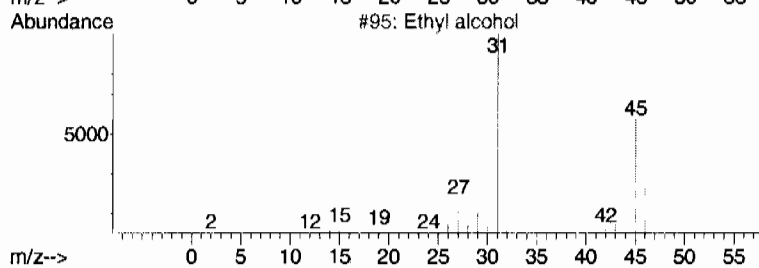
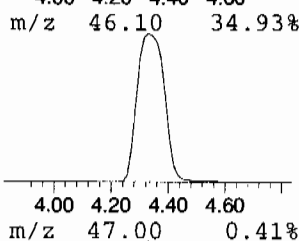
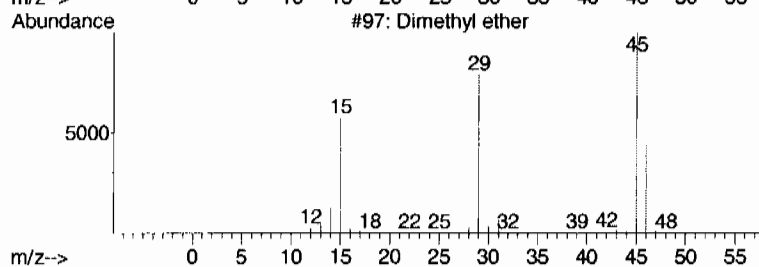
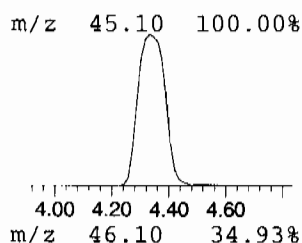
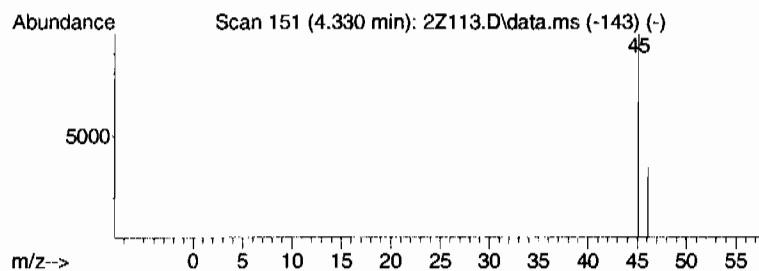
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.330	31.60 ug/L	1735050	Fluorobenzene	12.425

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dimethyl ether	46	C2H6O	000115-10-6	5
2		Ethyl alcohol	46	C2H6O	000064-17-5	4
3		Ethyl alcohol	46	C2H6O	000064-17-5	4
4		Ethyl alcohol	46	C2H6O	000064-17-5	4
5		Formic acid	46	CH2O2	000064-18-6	3



Library Search Compound Report
GEL Laboratories, LLC

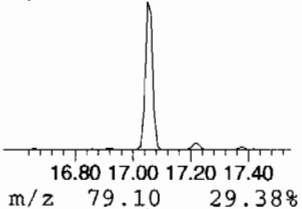
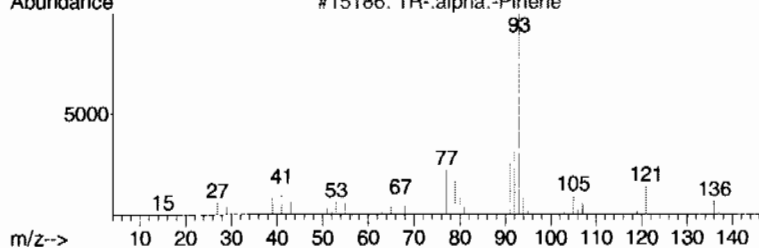
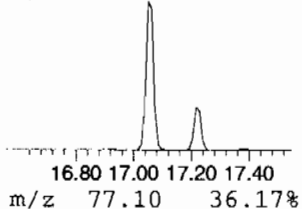
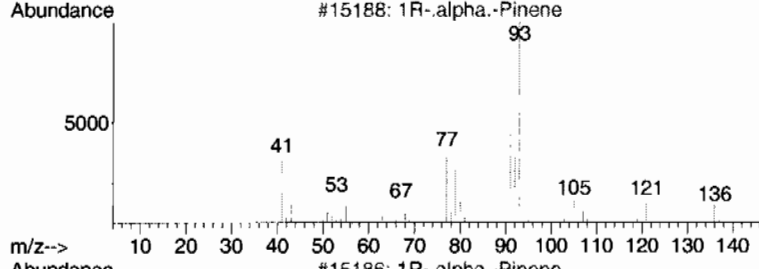
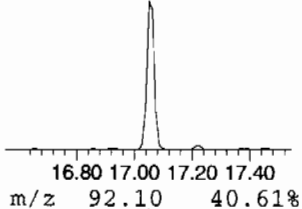
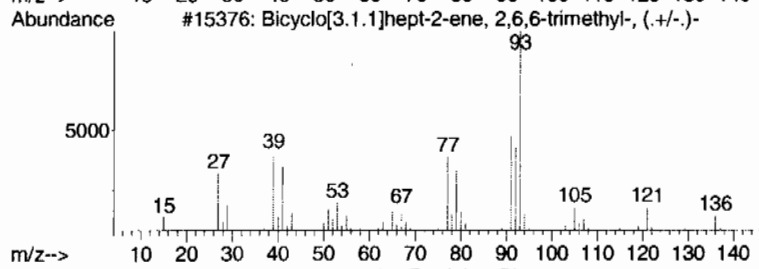
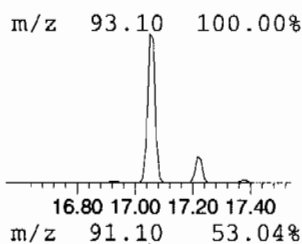
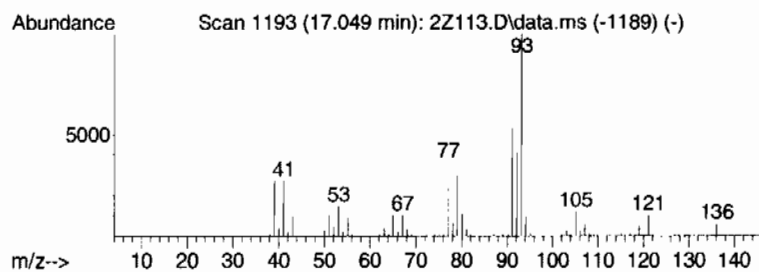
Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z113.D
Acq On : 15 Feb 2010 12:27 pm
Operator : CDS1
Sample : |246434015|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 2 unknown hydrocarbon Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.		
17.049	13.47 ug/L	845904	B Chlorobenzene-d5	15.970		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Bicyclo[3.1.1]hept-2-ene, 2,6,6-...	136	C10H16	002437-95-8	97
2		1R-.alpha.-Pinene	136	C10H16	007785-70-8	96
3		1R-.alpha.-Pinene	136	C10H16	007785-70-8	91
4		Bicyclo[3.1.1]hept-2-ene, 3,6,6-...	136	C10H16	004889-83-2	91
5		1S-.alpha.-Pinene	136	C10H16	007785-26-4	90



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z113.D
Acq On : 15 Feb 2010 12:27 pm
Operator : CDS1
Sample : |246434015|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 13 Sample Multiplier: 1

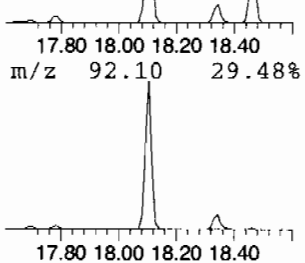
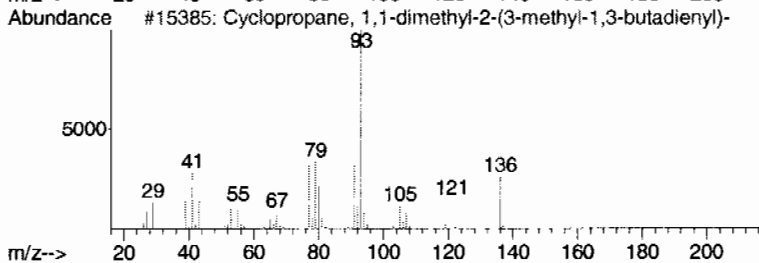
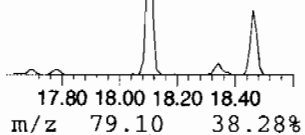
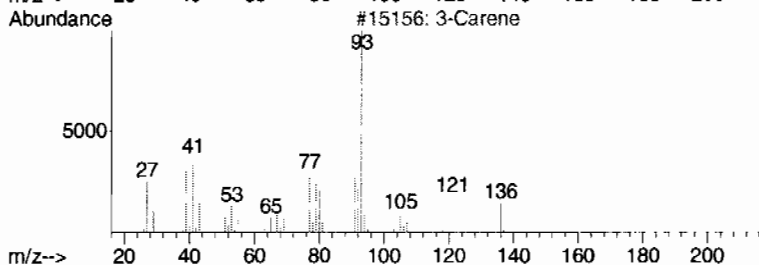
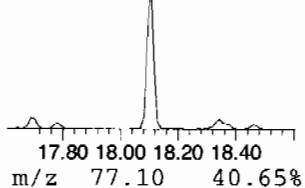
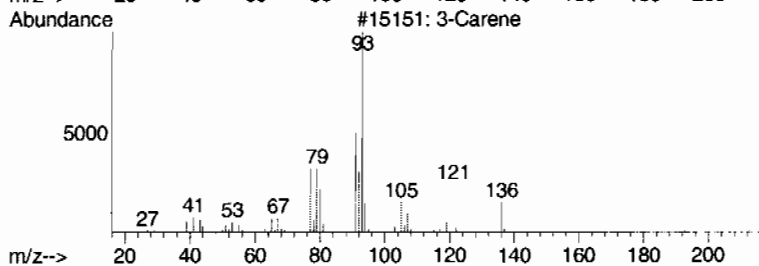
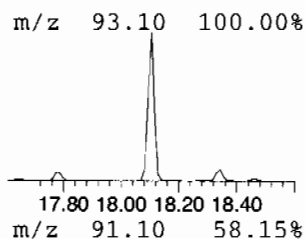
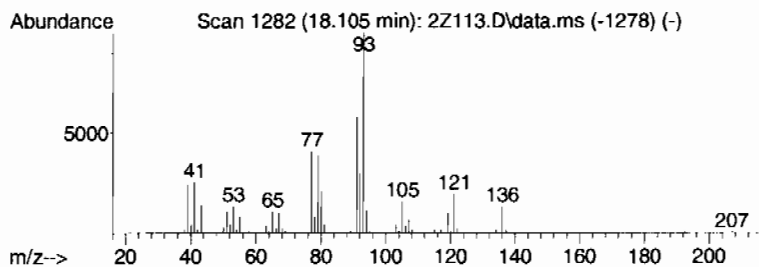
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 3 unknown hydrocarbon Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.105	10.63 ug/L	755140	1,4-Dichlorobenzene-d4	18.461

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			3-Carene	136	C10H16	013466-78-9	95
2			3-Carene	136	C10H16	013466-78-9	94
3			Cyclopropane, 1,1-dimethyl-2-(3-...	136	C10H16	068998-21-0	93
4			.alpha.-Phellandrene	136	C10H16	000099-83-2	92
5			1,3,6-Octatriene, 3,7-dimethyl-,...	136	C10H16	003338-55-4	90



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z113.D
Acq On : 15 Feb 2010 12:27 pm
Operator : CDS1
Sample : |246434015|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 13 Sample Multiplier: 1

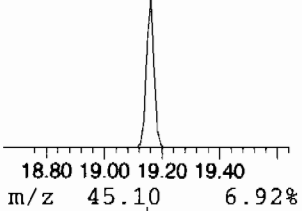
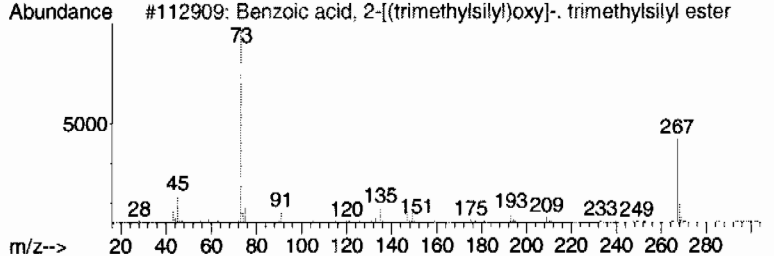
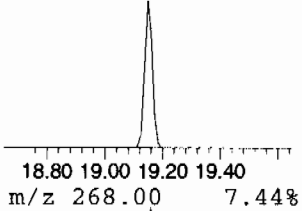
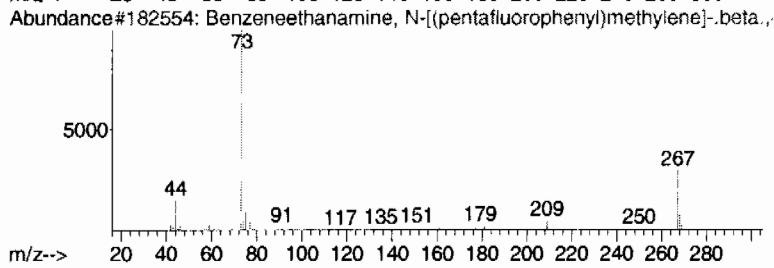
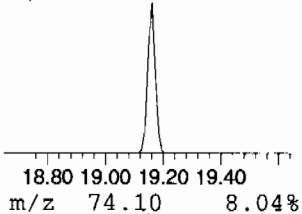
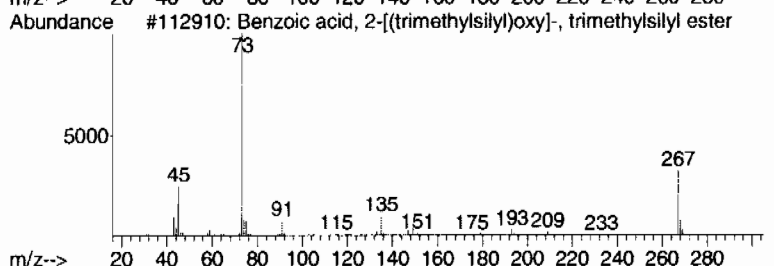
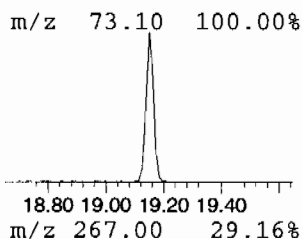
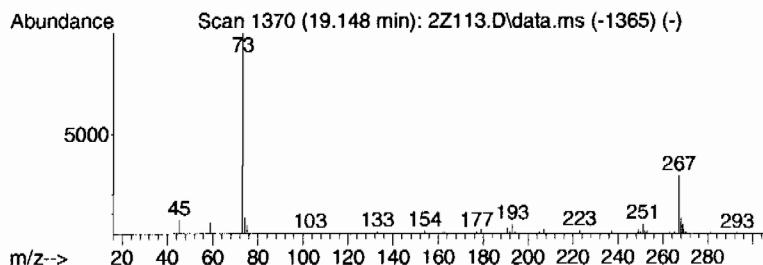
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 4 unknown siloxane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.148	12.15 ug/L	863289	B 1,4-Dichlorobenzene-d4	18.461

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzoic acid, 2-[(trimethylsilyl)oxy]-, trimethylsilyl ester	282	C13H22O3Si2	003789-85-3	50
2			Benzeneethanamine, N-[(pentafluorophenyl)methylene]-.beta.	475	C21H26F5NO2Si2	055429-85-1	42
3			Benzoic acid, 2-[(trimethylsilyl)oxy]-, trimethylsilyl ester	282	C13H22O3Si2	003789-85-3	39
4			Benzoic acid, 2-[(trimethylsilyl)oxy]-, trimethylsilyl ester	282	C13H22O3Si2	003789-85-3	39
5			3,5-Dimethoxyphenylacetic acid, ...	268	C13H20O4Si	1000071-82-4	27



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z113.D
Acq On : 15 Feb 2010 12:27 pm
Operator : CDS1
Sample : |246434015|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 13 Sample Multiplier: 1

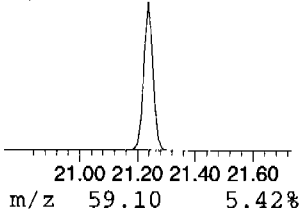
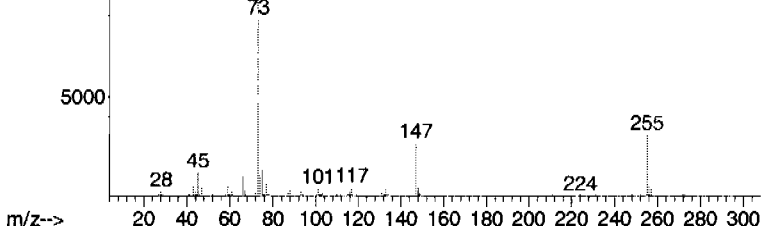
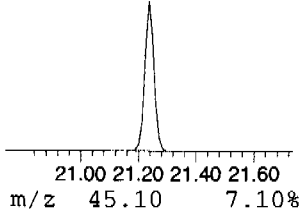
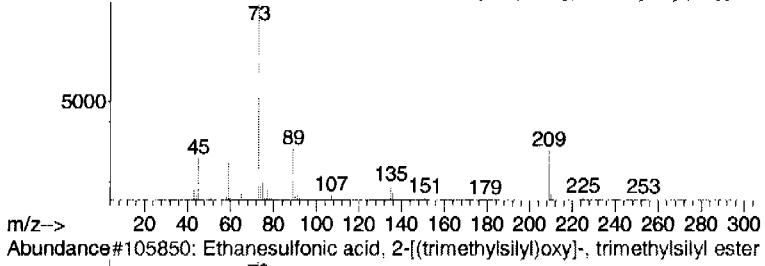
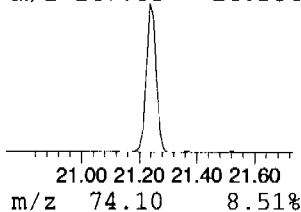
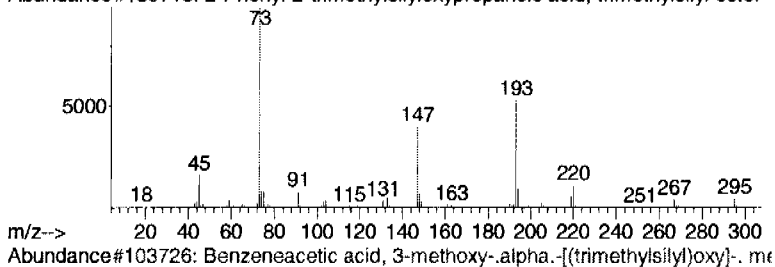
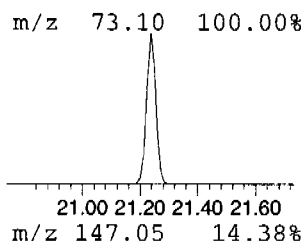
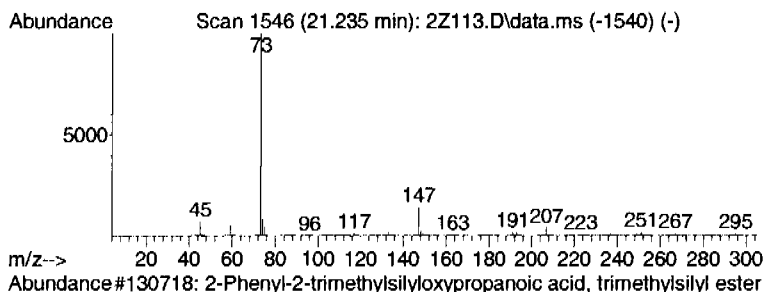
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 5 unknown siloxane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.235	17.02 ug/L	1209060	B 1,4-Dichlorobenzene-d4	18.461

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Phenyl-2-trimethylsilyloxyprop...	310	C15H26O3Si2	082326-12-3	40
2			Benzeneacetic acid, 3-methoxy-.a...	268	C13H20O4Si	055590-93-7	38
3			Ethanesulfonic acid, 2-[(trimeth...	270	C8H22O4SSi2	067557-58-8	38
4			Benzenepropanoic acid, .alpha.-[...	310	C15H26O3Si2	027750-45-4	33
5			2-Phenyl-1,2-bis(trimethylsilylo...	296	C15H28O2Si2	294847-15-7	28



Tentatively Identified Compound (LSC) summary
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z113.D
Acq On : 15 Feb 2010 12:27 pm
Operator : CDS1
Sample : |246434015|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown	4.330	31.6	ug/L	1735050	1	12.425	2745460	50.0
unknown hydroca...	17.049	13.5	ug/L	845904	4	15.970	3140350	50.0
unknown hydroca...	18.105	10.6	ug/L	755140	5	18.461	3551450	50.0
unknown siloxane	19.148	12.2	ug/L	863289	6	18.461	3551450	50.0
unknown siloxane	21.235	17.0	ug/L	1209060	6	18.461	3551450	50.0

Volatile
Certificate of Analysis
Sample Summary

Page 1 of 2

SDG Number: 10-1620
 Lab Sample ID: 246434011

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 17.6
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

Client ID: RE15-10-8336
 Batch ID: 952586
 Run Date: 02/15/2010 13:26
 Prep Date: 02/15/2010 12:00
 Data File: 021510V2.b\221115.D

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.21	ug/kg	0.412	1.21
74-87-3	Chloromethane	U	1.21	ug/kg	0.364	1.21
75-01-4	Vinyl chloride	U	1.21	ug/kg	0.364	1.21
74-83-9	Bromomethane	U	1.21	ug/kg	0.364	1.21
75-00-3	Chloroethane	U	1.21	ug/kg	0.364	1.21
75-69-4	Trichlorofluoromethane	U	1.21	ug/kg	0.364	1.21
67-64-1	Acetone	U	6.06	ug/kg	2.01	6.06
75-35-4	1,1-Dichloroethylene	U	1.21	ug/kg	0.364	1.21
74-88-4	Iodomethane	U	6.06	ug/kg	1.94	6.06
75-09-2	Methylene chloride	U	6.06	ug/kg	2.43	6.06
75-15-0	Carbon disulfide	U	6.06	ug/kg	1.52	6.06
156-60-5	trans-1,2-Dichloroethylene	U	1.21	ug/kg	0.364	1.21
75-34-3	1,1-Dichloroethane	U	1.21	ug/kg	0.364	1.21
78-93-3	2-Butanone	U	6.06	ug/kg	1.82	6.06
156-59-2	cis-1,2-Dichloroethylene	U	1.21	ug/kg	0.364	1.21
594-20-7	2,2-Dichloropropane	U	1.21	ug/kg	0.364	1.21
67-66-3	Chloroform	U	1.21	ug/kg	0.364	1.21
74-97-5	Bromochloromethane	U	1.21	ug/kg	0.400	1.21
71-55-6	1,1,1-Trichloroethane	U	1.21	ug/kg	0.364	1.21
563-58-6	1,1-Dichloropropene	U	1.21	ug/kg	0.364	1.21
56-23-5	Carbon tetrachloride	U	1.21	ug/kg	0.364	1.21
107-06-2	1,2-Dichloroethane	U	1.21	ug/kg	0.364	1.21
71-43-2	Benzene	U	1.21	ug/kg	0.364	1.21
79-01-6	Trichloroethylene	U	1.21	ug/kg	0.400	1.21
78-87-5	1,2-Dichloropropane	U	1.21	ug/kg	0.364	1.21
75-27-4	Bromodichloromethane	U	1.21	ug/kg	0.364	1.21
74-95-3	Dibromomethane	U	1.21	ug/kg	0.364	1.21
108-10-1	4-Methyl-2-pentanone	U	6.06	ug/kg	1.52	6.06
10061-01-5	cis-1,3-Dichloropropylene	U	1.21	ug/kg	0.364	1.21
108-88-3	Toluene	U	1.21	ug/kg	0.364	1.21
10061-02-6	trans-1,3-Dichloropropylene	U	1.21	ug/kg	0.364	1.21
79-00-5	1,1,2-Trichloroethane	U	1.21	ug/kg	0.364	1.21
591-78-6	2-Hexanone	U	6.06	ug/kg	1.82	6.06
142-28-9	1,3-Dichloropropane	U	1.21	ug/kg	0.364	1.21
127-18-4	Tetrachloroethylene	U	1.21	ug/kg	0.364	1.21
124-48-1	Dibromochloromethane	U	1.21	ug/kg	0.364	1.21
106-93-4	1,2-Dibromoethane	U	1.21	ug/kg	0.364	1.21
108-90-7	Chlorobenzene	U	1.21	ug/kg	0.364	1.21

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 246434011

 Client ID: RE15-10-8336
 Batch ID: 952586
 Run Date: 02/15/2010 13:26
 Prep Date: 02/15/2010 12:00
 Data File: 021510V2.b\2Z115.D

Date Collected: 02/02/2010 12:00
 Date Received: 02/06/2010 09:15
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA2I
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 17.6
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.21	ug/kg	0.364	1.21
179601-23-1	m,p-Xylenes	U	2.43	ug/kg	0.364	2.43
95-47-6	o-Xylene	U	1.21	ug/kg	0.364	1.21
100-42-5	Styrene	U	1.21	ug/kg	0.364	1.21
75-25-2	Bromoform	U	1.21	ug/kg	0.364	1.21
79-34-5	1,1,2,2-Tetrachloroethane	U	1.21	ug/kg	0.364	1.21
96-18-4	1,2,3-Trichloropropane	U	1.21	ug/kg	0.364	1.21
108-86-1	Bromobenzene	U	1.21	ug/kg	0.364	1.21
103-65-1	n-Propylbenzene	U	1.21	ug/kg	0.364	1.21
95-49-8	2-Chlorotoluene	U	1.21	ug/kg	0.364	1.21
98-82-8	Isopropylbenzene	U	1.21	ug/kg	0.364	1.21
108-67-8	1,3,5-Trimethylbenzene	U	1.21	ug/kg	0.364	1.21
106-43-4	4-Chlorotoluene	U	1.21	ug/kg	0.364	1.21
98-06-6	tert-Butylbenzene	U	1.21	ug/kg	0.364	1.21
95-63-6	1,2,4-Trimethylbenzene	U	1.21	ug/kg	0.364	1.21
135-98-8	sec-Butylbenzene	U	1.21	ug/kg	0.364	1.21
99-87-6	4-Isopropyltoluene	U	1.21	ug/kg	0.364	1.21
541-73-1	1,3-Dichlorobenzene	U	1.21	ug/kg	0.364	1.21
106-46-7	1,4-Dichlorobenzene	U	1.21	ug/kg	0.364	1.21
104-51-8	n-Butylbenzene	U	1.21	ug/kg	0.364	1.21
96-12-8	1,2-Dibromo-3-chloropropane	U	1.21	ug/kg	0.364	1.21
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.06	ug/kg	1.94	6.06
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.21	ug/kg	0.364	1.21
95-50-1	1,2-Dichlorobenzene	U	1.21	ug/kg	0.364	1.21

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.36	26.1	ug/kg	0	J

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z115.D
Acq On : 15 Feb 2010 1:26 pm
Operator : CDS1
InstName : VOA2
Sample : |246434011|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL ra
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 15 16:46:19 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev(Min)
1) Fluorobenzene	12.425	12.437	1.000	96	1112123	50.00	ug/L	-0.01
41) Chlorobenzene-d5	15.970	15.970	1.000	117	834961	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.460	18.461	1.000	152	466210	50.00	ug/L	0.00
82) B Fluorobenzene	12.425	12.437	1.000	96	1112002	50.00	ug/L	-0.01
103) B Chlorobenzene-d5	15.970	15.971	1.000	117	834961	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.460	18.461	1.000	152	466465	50.00	ug/L	0.00
System Monitoring Compounds								Dev(Min)
29) 1,2-Dichloroethane-d4	11.974	11.986	0.964	65	553379	52.96	ug/L	-0.01
Spiked Amount	50.000	Range 66 - 134	Recovery	=	105.92%			
43) Toluene-d8	14.334	14.346	0.898	98	1090985	48.87	ug/L	-0.01
Spiked Amount	50.000	Range 71 - 128	Recovery	=	97.74%			
61) Bromofluorobenzene	17.215	17.227	0.933	95	509352	50.91	ug/L	-0.01
Spiked Amount	50.000	Range 65 - 130	Recovery	=	101.82%			
Target Compounds	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	QValue
2) Dichlorodifluoromethane	0.000	4.702	0.000		0	N.D.		
3) Chloromethane	4.999	4.999	0.402	50	316	N.D.		
4) Vinyl chloride	5.251	5.266	0.423	62	795	N.D.		
5) Bromomethane	0.000	5.980	0.000		0	N.D.		
6) Chloroethane	0.000	6.223	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000	6.839	0.000		0	N.D.		
8) Ethyl ether	0.000	7.409	0.000		0	N.D.		
9) Acetone	8.001	7.930	0.644	43	1648	N.D.		
10) 1,1-Dichloroethylene	0.000	7.883	0.000		0	N.D.		
11) Iodomethane	0.000	8.167	0.000		0	N.D.		
12) Acetonitrile	0.000	8.452	0.000		0	N.D.		
13) Methyl acetate	0.000	8.571	0.000		0	N.D.		
14) Carbon disulfide	8.286	8.322	0.667	76	393	N.D.		
15) Methylene chloride	8.748	8.772	0.704	84	6983	N.D.		
16) tert-Butyl methyl ether	0.000	9.282	0.000		0	N.D.		
17) trans-1,2-Dichloroethy...	0.000	9.270	0.000		0	N.D.		
18) Vinyl acetate	0.000	10.017	0.000		0	N.D.		
19) 1,1-Dichloroethane	0.000	9.958	0.000		0	N.D.		
20) 2-Butanone	0.000	10.836	0.000		0	N.D.		
21) cis-1,2-Dichloroethylene	0.000	10.848	0.000		0	N.D.		
22) 2,2-Dichloropropane	0.000	10.871	0.000		0	N.D.		
23) Bromochloromethane	0.000	11.203	0.000		0	N.D.		
24) Chloroform	11.274	11.298	0.907	83	108	N.D.		
25) 1,1,1-Trichloroethane	0.000	11.606	0.000		0	N.D.		
26) Cyclohexane	0.000	11.713	0.000		0	N.D.		
27) 1,1-Dichloropropene	0.000	11.820	0.000		0	N.D.		
28) Carbon tetrachloride	0.000	11.844	0.000		0	N.D.		
30) 1,2-Dichloroethane	0.000	12.093	0.000		0	N.D.		
31) Benzene	12.081	12.093	0.972	78	258	N.D.		
32) Cyclohexene	0.000	12.247	0.000		0	N.D.		
33) n-Butyl alcohol	0.000	12.697	0.000		0	N.D.		
34) Trichloroethylene	12.887	12.899	1.037	95	141	N.D.		
35) 1,2-Dichloropropane	0.000	13.172	0.000		0	N.D.		
36) Methylcyclohexane	0.000	13.184	0.000		0	N.D.		
37) Dibromomethane	0.000	13.314	0.000		0	N.D.		

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z115.D
Acq On : 15 Feb 2010 1:26 pm
Operator : CDS1
InstName : VOA2
Sample : |246434011|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL ra
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 15 16:46:19 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
38) Bromodichloromethane	0.000	13.480	0.000		0	N.D.	
39) 2-Chloroethylvinyl ether	0.000	13.800	0.000		0	N.D.	
40) cis-1,3-Dichloropropylene	0.000	14.002	0.000		0	N.D.	
42) 4-Methyl-2-pentanone	0.000	14.144	0.000		0	N.D.	
44) Toluene	14.417	14.429	0.903	91	682	N.D.	
45) trans-1,3-Dichloroprop...	0.000	14.618	0.000		0	N.D.	
46) 1,1,2-Trichloroethane	0.000	14.844	0.000		0	N.D.	
47) 2-Hexanone	15.081	15.069	0.944	43	107	N.D.	
48) 1,3-Dichloropropane	0.000	15.045	0.000		0	N.D.	
49) Tetrachloroethylene	0.000	15.069	0.000		0	N.D.	
50) Dibromochloromethane	0.000	15.318	0.000		0	N.D.	
51) 1,2-Dibromoethane	0.000	15.472	0.000		0	N.D.	
52) Chlorobenzene	16.006	16.006	1.002	112	243	N.D.	
53) 1,1,1,2-Tetrachloroethane	0.000	16.077	0.000		0	N.D.	
54) Ethylbenzene	16.207	16.101	1.015	91	819	N.D.	
55) m,p-Xylenes	16.207	16.219	1.015	106	288	N.D.	
56) o-Xylene	0.000	16.658	0.000		0	N.D.	
57) Styrene	16.658	16.658	1.043	104	110	N.D.	
59) Bromoform	0.000	16.895	0.000		0	N.D.	
60) Isopropylbenzene	17.049	17.038	0.924	105	275	N.D.	
62) 1,1,2,2-Tetrachloroethane	0.000	17.310	0.000		0	N.D.	
63) 1,2,3-Trichloropropane	0.000	17.393	0.000		0	N.D.	
64) Bromobenzene	0.000	17.429	0.000		0	N.D.	
65) n-Propylbenzene	17.476	17.476	0.947	91	128	N.D.	
66) 1,3,5-Trimethylbenzene	0.000	17.642	0.000		0	N.D.	
67) 2-Chlorotoluene	0.000	17.607	0.000		0	N.D.	
68) 4-Chlorotoluene	17.713	17.714	0.960	91	445	N.D.	
69) tert-Butylbenzene	0.000	18.010	0.000		0	N.D.	
70) 1,2,4-Trimethylbenzene	18.045	18.057	0.978	105	262	N.D.	
71) sec-Butylbenzene	0.000	18.235	0.000		0	N.D.	
72) 4-Isopropyltoluene	18.366	18.366	0.995	119	143	N.D.	
73) 1,3-Dichlorobenzene	18.401	18.401	0.997	146	324	N.D.	
74) 1,4-Dichlorobenzene	18.496	18.496	1.002	146	526	N.D.	
75) n-Butylbenzene	18.804	18.805	1.019	91	112	N.D.	
76) 1,2-Dichlorobenzene	0.000	18.899	0.000		0	N.D.	
77) 1,2-Dibromo-3-chloropr...	0.000	19.718	0.000		0	N.D.	
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	163	N.D.	
79) Hexachlorobutadiene	0.000	20.868	0.000		0	N.D.	
80) Naphthalene	21.034	21.022	1.139	128	730	N.D.	
81) 1,2,3-Trichlorobenzene	21.330	21.342	1.155	180	113	N.D.	
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.	
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.	
85) Acrolein	0.000	7.646	0.000		0	N.D.	
86) Trichlorotrifluoroethane	0.000	7.930	0.000		0	N.D.	
87) Isopropyl Alcohol	0.000	8.191	0.000		0	N.D.	
88) Allyl chloride	0.000	8.559	0.000		0	N.D.	
89) tert-Butyl Alcohol	8.926	8.938	0.718	59	342	N.D.	
90) Acrylonitrile	0.000	9.164	0.000		0	N.D.	
91) Isopropyl ether	0.000	10.077	0.000		0	N.D.	
92) 2-Chloro-1,3-butadiene	0.000	10.124	0.000		0	N.D.	
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.	
94) Ethyl acetate	0.000	10.919	0.000		0	N.D.	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22115.D
Acq On : 15 Feb 2010 1:26 pm
Operator : CDS1
InstName : VOA2
Sample : |246434011|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL ra
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 15 16:46:19 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

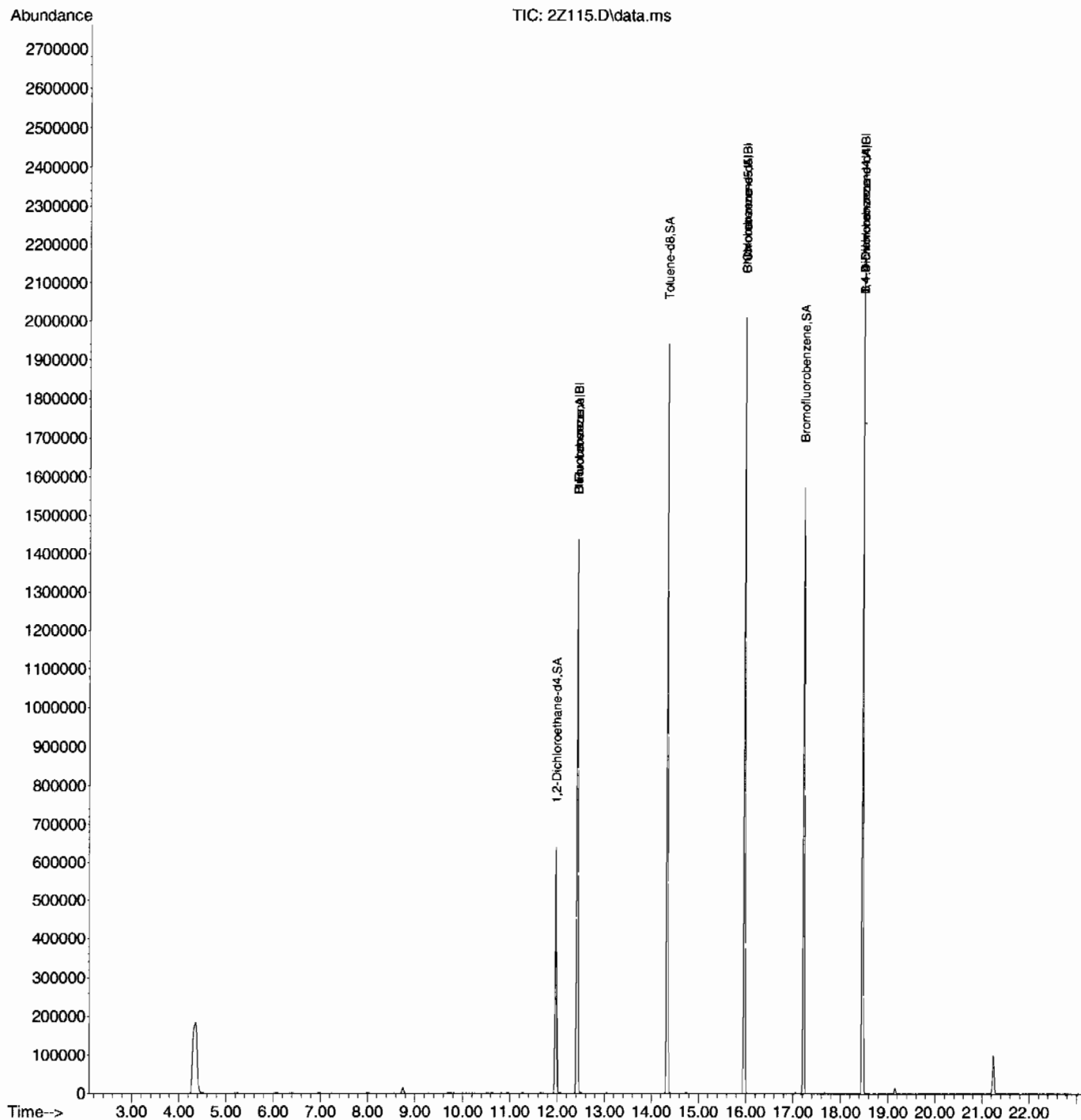
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	0.000	10.907	0.000		0	N.D.	
96) Methacrylonitrile	0.000	11.144	0.000		0	N.D.	
97) Tetrahydrofuran	11.274	11.275	0.907	42	529	N.D.	
98) Isobutyl alcohol	0.000	11.856	0.000		0	N.D.	
99) Methyl tert-amyl ether	0.000	12.211	0.000		0	N.D.	
100) Methyl methacrylate	0.000	13.243	0.000		0	N.D.	
101) 1,4-Dioxane	0.000	13.314	0.000		0	N.D.	
102) 2-Nitropropane	0.000	13.729	0.000		0	N.D.	
104) Ethyl methacrylate	0.000	14.678	0.000		0	N.D.	
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	17.049	17.073	0.924	53	142	N.D.	
108) Cyclohexanone	0.000	17.156	0.000		0	N.D.	
109) trans-1,4-Dichloro-2-b...	0.000	17.370	0.000		0	N.D.	
110) Pentachloroethane	0.000	18.058	0.000		0	N.D.	
111) Benzyl chloride	18.460	18.603	1.000	91	1609	N.D.	
112) bis(2-Chloroisopropyl)...	19.148	19.018	1.037	45	882	N.D.	

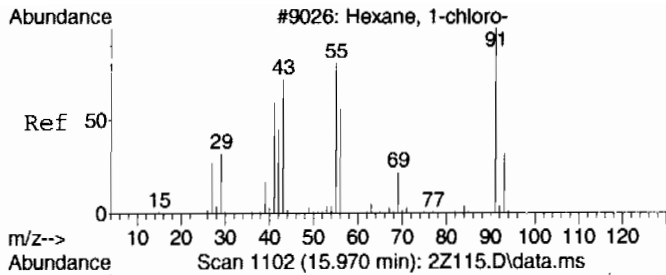
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z115.D
Acq On : 15 Feb 2010 1:26 pm
Operator : CDS1
InstName : VOA2
Sample : |246434011|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL ra
ALS Vial : 15 Sample Multiplier: 1

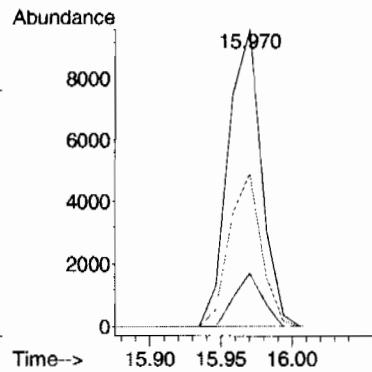
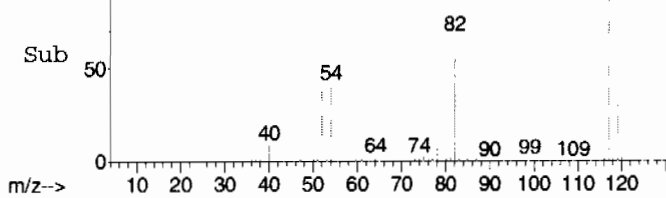
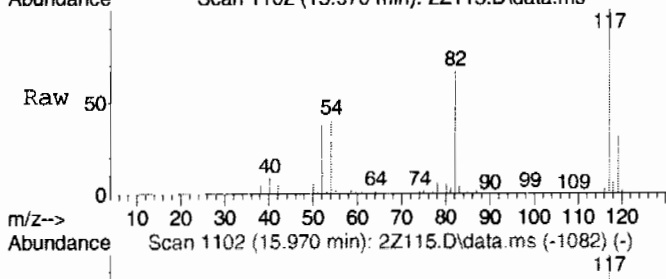
Quant Time: Feb 15 16:46:19 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE





#106 BEFORE analyst DELETION
 1-Chlorohexane
 Concen: 2.37 ug/L
 RT: 15.970 min Scan# 1102
 Delta R.T. 0.059 min
 Lab File: 2Z115.D
 Acq: 15 Feb 2010 1:26 pm

Tgt Ion: 55 Resp: 15533
 Ion Ratio Lower Upper
 55 100
 91 15.4 66.2 126.2#
 56 49.7 26.7 86.7



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z115.D
Acq On : 15 Feb 2010 1:26 pm
Operator : CDS1
Sample : |246434011|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL ra
ALS Vial : 15 Sample Multiplier: 1

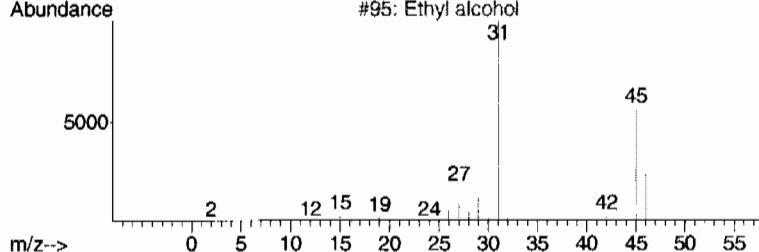
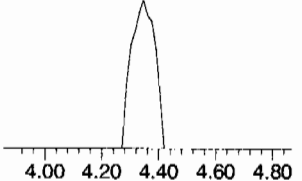
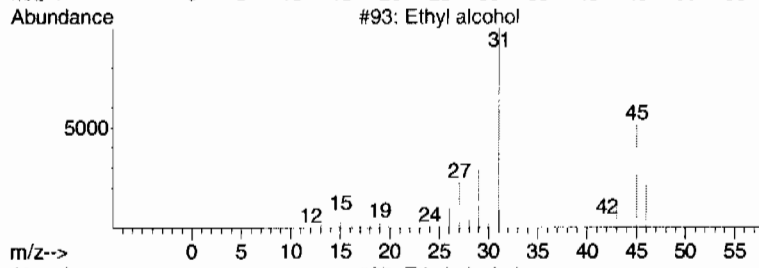
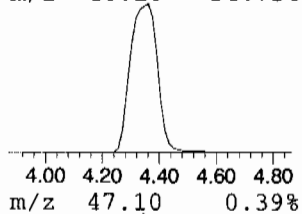
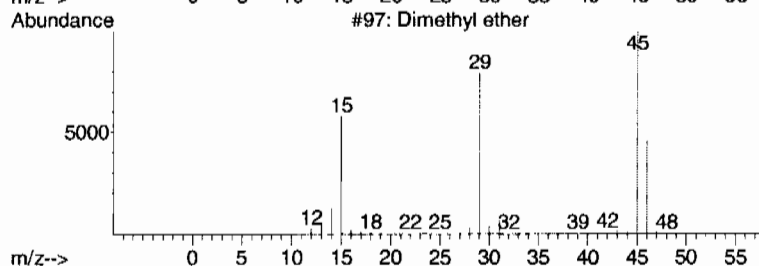
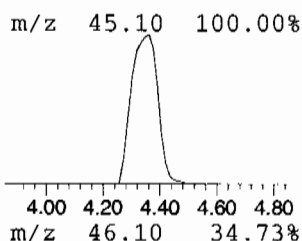
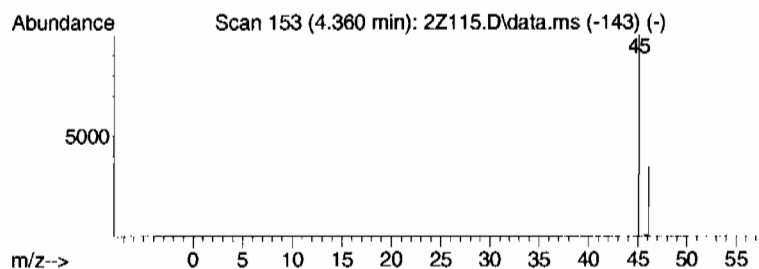
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.360	21.55 ug/L	1206980	Fluorobenzene	12.425

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dimethyl ether	46	C2H6O	000115-10-6	5
2		Ethyl alcohol	46	C2H6O	000064-17-5	4
3		Ethyl alcohol	46	C2H6O	000064-17-5	4
4		Ethyl alcohol	46	C2H6O	000064-17-5	4
5		Formic acid	46	CH2O2	000064-18-6	3



Tentatively Identified Compound (LSC) summary
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22115.D
Acq On : 15 Feb 2010 1:26 pm
Operator : CDS1
Sample : |246434011|952573|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL ra
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown	4.360	21.6	ug/L	1206980	1	12.425	2800930	50.0

Standards

Calibration Standard Concentration Levels

	Level 1	Level 1a	Level 2	Level 3	Level 4 #	Level 5	Level 6	Level 7 !	Level 7a
Fluorobenzene (IS)									
1,2-Dichloroethane-d4(surr)		0.5	1	2	5	10	20	50	100
Dichlorodifluoromethane		0.5	1	2	5	10	20	50	100
Chloromethane		0.5	1	2	5	10	20	50	100
Vinyl chloride		0.5	1	2	5	10	20	50	100
Bromomethane		0.5	1	2	5	10	20	50	100
Chloroethane		0.5	1	2	5	10	20	50	100
Trichlorofluoromethane		0.5	1	2	5	10	20	50	100
1,1-Dichloroethene		0.5	1	2	5	10	20	50	100
Acetone	1	2.5	5	10	25	50	100	250	500
Iodomethane	1	2.5	5	10	25	50	100	250	500
Carbon disulfide	1	2.5	5	10	25	50	100	250	500
Methylene chloride		0.5	1	2	5	10	20	50	100
trans-1,2-Dichloroethene		0.5	1	2	5	10	20	50	100
1,1-Dichloroethane		0.5	1	2	5	10	20	50	100
Ethyl ether		0.5	1	2	5	10	20	50	100
Vinyl acetate	1	2.5	5	10	25	50	100	250	500
cis-1,2-Dichloroethene		0.5	1	2	5	10	20	50	100
1,2-Dichloroethene (total)		1	2	4	10	20	40	100	200
Cyclohexene		0.5	1	2	5	10	20	50	100
2-Chloroethylvinyl ether			5	10	25	50	100	250	500
2,2-Dichloropropane		0.5	1	2	5	10	20	50	100
2-Butanone	1	2.5	5	10	25	50	100	250	500
Bromochloromethane		0.5	1	2	5	10	20	50	100
Chloroform		0.5	1	2	5	10	20	50	100
1,1,1-Trichloroethane		0.5	1	2	5	10	20	50	100
1,1-Dichloropropene		0.5	1	2	5	10	20	50	100
Carbon tetrachloride		0.5	1	2	5	10	20	50	100
Benzene		0.5	1	2	5	10	20	50	100
1,2-Dichloroethane		0.5	1	2	5	10	20	50	100
Trichloroethene		0.5	1	2	5	10	20	50	100
1,2-Dichloropropane		0.5	1	2	5	10	20	50	100
Dibromomethane		0.5	1	2	5	10	20	50	100
Bromodichloromethane		0.5	1	2	5	10	20	50	100
cis-1,3-Dichloropropene		0.5	1	2	5	10	20	50	100
tert-Butylmethylether		0.5	1	2	5	10	20	50	100
Ethyl Ether			1	2	5	10	20	50	100
Acetonitrile			25	50	125	250	500	1250	2500
Methyl acetate			5	10	25	50	100	250	500
Cyclohexane			1	2	5	10	20	50	100
Methylcyclohexane			1	2	5	10	20	50	100
n-Butyl alcohol			50	100	250	500	1000	2500	5000
2-Nitropropane			5	10	25	50	100	250	500
Ethyl acetate			5	10	25	50	100	250	500
Acrolein			5	10	25	50	100	250	500
Trichlorotrifluoroethane			5	10	25	50	100	250	500
Allyl chloride			5	10	25	50	100	250	500
Acrylonitrile			5	10	25	50	100	250	500
1,4-Dioxane			50	100	250	500	1000	2500	5000
Isobutyl alcohol			50	100	250	500	1000	2500	5000
Methacrylonitrile			5	10	25	50	100	250	500
Propionitrile			5	10	25	50	100	250	500
Methyl methacrylate			5	10	25	50	100	250	500
Chlorotrifluoroethylene			5	10	25	50	100	250	500
2-Chloro-1,1,1-trifluoroethane			5	10	25	50	100	250	500

tert-Butyl alcohol			50	100	250	500	1000	2500	5000
Isopropyl ether			1	2	5	10	20	50	100
Ethyl tert-butyl ether			1	2	5	10	20	50	100
Isopropyl alcohol			50	100	250	500	1000	2500	5000
Methyl tert-amyl ether			1	2	5	10	20	50	100
1-Chlorohexane			1	2	5	10	20	50	100
2-Chloro-1,3-butadiene(chloroprene)			1	2	5	10	20	50	100
Chlorobenzene-d5 (IS)									
Toluene-d8 (surr)		0.5	1	2	5	10	20	50	100
4-Methyl-2-pentanone	1	2.5	5	10	25	50	100	250	500
Toluene		0.5	1	2	5	10	20	50	100
trans-1,3-Dichloropropene		0.5	1	2	5	10	20	50	100
1,1,2-Trichloroethane		0.5	1	2	5	10	20	50	100
Tetrachloroethene		0.5	1	2	5	10	20	50	100
1,3-Dichloropropane		0.5	1	2	5	10	20	50	100
2-Hexanone	1	2.5	5	10	25	50	20	250	500
Dibromochloromethane		0.5	1	2	5	10	20	50	100
1,2-Dibromoethane		0.5	1	2	5	10	20	50	100
Chlorobenzene		0.5	1	2	5	10	20	50	100
1,1,1,2-Tetrachloroethane		0.5	1	2	5	10	20	50	100
Ethylbenzene		0.5	1	2	5	10	20	50	100
m,p-Xylene		1	2	4	10	20	20	100	200
o-Xylene		0.5	1	2	5	10	20	50	100
Xylenes (total)		1.5	3	6	15	30	60	150	300
Stryene		0.5	1	2	5	10	20	50	100
Cyclohexanone			50	100	250	500	1000	2500	5000
Ethyl methacrylate			5	10	25	50	100	250	500
1,4-Dichlorobenzene-d4 (IS)									
Bromofluorobenzene (surr)		0.5	1	2	5	10	20	50	100
Bromoform		0.5	1	2	5	10	20	50	100
Isopropylbenzene		0.5	1	2	5	10	20	50	100
1,1,2,2-Tetrachloroethane		0.5	1	2	5	10	20	50	100
Bromobenzene		0.5	1	2	5	10	20	50	100
1,2,3-Trichloropropane		0.5	1	2	5	10	20	50	100
n-Propylbenzene		0.5	1	2	5	10	20	50	100
2-Chlorotoluene		0.5	1	2	5	10	20	50	100
1,3,5-Trimethylbenzene		0.5	1	2	5	10	20	50	100
4-Chlorotoluene		0.5	1	2	5	10	20	50	100
1,2,4-Trimethylbenzene		0.5	1	2	5	10	20	50	100
sec-Butylbenzene		0.5	1	2	5	10	20	50	100
1,3-Dichlorobenzene		0.5	1	2	5	10	20	50	100
tert-Butylbenzene		0.5	1	2	5	10	20	50	100
Isopropyltoluene		0.5	1	2	5	10	20	50	100
1,4-Dichlorobenzene		0.5	1	2	5	10	20	50	100
n-Butylbenzene		0.5	1	2	5	10	20	50	100
1,2-Dichlorobenzene		0.5	1	2	5	10	20	50	100
1,2-Dibromo-3-chloropropa		0.5	1	2	5	10	20	50	100
1,2,4-Trichlorobenzene		0.5	1	2	5	10	20	50	100
Hexachlorobutadiene		0.5	1	2	5	10	20	50	100
Naphthalene		0.5	1	2	5	10	20	50	100
1,2,3-Trichlorobenzene		0.5	1	2	5	10	20	50	100
cis-1,4-Dichloro-2-butene			5	10	25	50	100	250	500
trans-1,4-Dichloro-2-butene			5	10	25	50	100	250	500
Tetrahydrofuran			5	10	25	50	100	250	500
Pentachloroethane			5	10	25	50	100	250	500
Benzyl chloride			5	10	25	50	100	250	500
bis(2-Chloro-isopropyl)ether			5	10	25	50	100	250	500

Method	PQL	Concentration range
EPA 524.2	Level 1a	Levels 1a -> 7a
SW 846 8260B low level	Level 1a	Levels 1-> 7a
EPA 624	Level 2	Levels 2-> 7a
SW846 8260B	Level 2	Levels 2-> 7a

#: Indicates calibration verification concentration level used for low level analysis

!: Indicates calibration verification concentration level used for regular level analysis

Calibration History Report VOA2

GEL Laboratories, LLC

Method File : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M

Last Update : Tue Feb 09 07:23:51 2010

Integrator : (RTE Integrator)

Response via : Initial Calibration

Cal Lvl:8 Amt:-1 Last Updated with: C:\msdchem\1\DATA\020810V2.b\2Y127.D

Injection Date	Mix	Calibration File
8 Feb 2010 9:43 pm	A	C:\msdchem\1\DATA\020810V2.b\2Y127.D

Cal Lvl:1 Amt:1 Last Updated with: C:\msdchem\1\DATA\020810V2.b\2Y131.D

Injection Date	Mix	Calibration File
8 Feb 2010 5:51 pm	A	C:\msdchem\1\DATA\020810V2.b\2Y119.D
8 Feb 2010 11:39 pm	B	C:\msdchem\1\DATA\020810V2.b\2Y131.D

Cal Lvl:2 Amt:2 Last Updated with: C:\msdchem\1\DATA\020810V2.b\2Y132.D

Injection Date	Mix	Calibration File
8 Feb 2010 6:20 pm	A	C:\msdchem\1\DATA\020810V2.b\2Y120.D
9 Feb 2010 12:08 am	B	C:\msdchem\1\DATA\020810V2.b\2Y132.D

Cal Lvl:3 Amt:5 Last Updated with: C:\msdchem\1\DATA\020810V2.b\2Y133.D

Injection Date	Mix	Calibration File
8 Feb 2010 6:49 pm	A	C:\msdchem\1\DATA\020810V2.b\2Y121.D
9 Feb 2010 12:36 am	B	C:\msdchem\1\DATA\020810V2.b\2Y133.D

Cal Lvl:4 Amt:10 Last Updated with: C:\msdchem\1\DATA\020810V2.b\2Y134.D

Injection Date	Mix	Calibration File
8 Feb 2010 7:18 pm	A	C:\msdchem\1\DATA\020810V2.b\2Y122.D
9 Feb 2010 1:05 am	B	C:\msdchem\1\DATA\020810V2.b\2Y134.D

Cal Lvl:5 Amt:20 Last Updated with: C:\msdchem\1\DATA\020810V2.b\2Y135.D

Injection Date	Mix	Calibration File
8 Feb 2010 7:47 pm	A	C:\msdchem\1\DATA\020810V2.b\2Y123.D
9 Feb 2010 1:35 am	B	C:\msdchem\1\DATA\020810V2.b\2Y135.D

Cal Lvl:6 Amt:50 Last Updated with: C:\msdchem\1\DATA\020810V2.b\2Y136.D

Injection Date	Mix	Calibration File
8 Feb 2010 8:16 pm	A	C:\msdchem\1\DATA\020810V2.b\2Y124.D
9 Feb 2010 2:03 am	B	C:\msdchem\1\DATA\020810V2.b\2Y136.D

Cal Lvl:7 Amt:100 Last Updated with: C:\msdchem\1\DATA\020810V2.b\2Y137.D

Injection Date	Mix	Calibration File
8 Feb 2010 8:45 pm	A	C:\msdchem\1\DATA\020810V2.b\2Y125.D
9 Feb 2010 2:32 am	B	C:\msdchem\1\DATA\020810V2.b\2Y137.D

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Response via : Initial Calibration

For Linear Calibration: $y = \text{concentration ratio}$, $x = \text{response ratio}$. $y = b + m_1(x) + m_2(xE^2)$

b	Compound m1 | m2	8 6	1 7	2	3	4	5	Avg	Curve	Exp	%RSD/r ²
2)MA	Dichlorodifluoromethane	0.2169046	0.2443606 0.2328369	0.2777990	0.3009121	0.2395466	0.2163969	0.2470	AVRG		12.7623
3)MPA	Chloromethane	0.2732747	0.3181291 0.2725611	0.3299522	0.3186541	0.2770873	0.2667729	0.2938	AVRG		9.2167
4)MCA	Vinyl chloride	0.2446258	0.3085744 0.2546527	0.2912536	0.2829412	0.2541211	0.2414756	0.2682	AVRG		9.6625
5)MA	Bromomethane 0.0025 | 0.1069 | 0.00	168940	4329 339857	6837	19514	33091	62172		LINR		0.9994
6)MA	Chloroethane	0.1735282	0.1813460 0.1759721	0.1936842	0.1869970	0.1785146	0.1699627	0.1800	AVRG		4.5309
7)MA	Trichlorofluoromethane	0.4652269	0.4711591 0.4714541	0.4949474	0.5008131	0.4710145	0.4498937	0.4749	AVRG		3.6805
8)MA	Ethyl ether	0.2210624	0.2143426 0.2206101	0.2162679	0.2248542	0.2181932	0.2070801	0.2175	AVRG		2.6346
9)MA	Acetone	0.1932996	0.2492114 0.1817496	0.2136995	0.1997224	0.1737530	0.1963406	0.2011	AVRG		12.3163
10)MCA	1,1-Dichloroethylene	0.4386459	0.4898043 0.4806521	0.4903349	0.4659243	0.4560451	0.4861808	0.4725	AVRG		4.1716
11)MA	Iodomethane	0.3344499	0.3738559 0.3687346	0.3688727	0.3602139	0.3537017	0.3759741	0.3623	AVRG		3.9987
12)MA	Acetonitrile	0.0316304	0.0402412 0.0347098	0.0371851	0.0362242	0.0352309	0.0364535	0.0360	AVRG		7.2691
13)MA	Methyl acetate	0.2043040	0.2364615 0.2225088	0.2177531	0.2170935	0.2185493	0.2189806	0.2194	AVRG		4.3147
14)MA	Carbon disulfide	0.6380128	0.6825927 0.7261484	0.6816383	0.6688975	0.6639658	0.7043977	0.6808	AVRG		4.1860
15)MA	Methylene chloride	0.2174684	0.2333227	0.3222967	0.2597965	0.2440236	0.2474236	0.2541	AVRG		14.3039
16)MA	tert-Butyl methyl ether	0.6549309	0.7439517 0.7407265	0.7137799	0.6795839	0.6862876	0.7425756	0.7088	AVRG		5.0482

Response via : Initial Calibration

For Linear Calibration: $y = \text{concentration ratio}$, $x = \text{response ratio}$, $y = b + m1(x) + m2(xE2)$

b	Compound m1 | m2	8 6	1 7	2	3	4	5	Avg	Curve	Exp	%RSD/r^2
17)MA	trans-1,2-Dichloroethylene	0.3914898	0.4323987 0.4248501	0.4485933	0.4268842	0.4143552	0.4435985	0.4260	AVRG		4.4842
18)MA	Vinyl acetate	0.4659809	0.4011119 0.5123374	0.4511349	0.4576355	0.4623837	0.4739383	0.4606	AVRG		7.1584
19)MPA	1,1-Dichloroethane	0.4534506	0.4937500 0.4944369	0.4954641	0.4926708	0.4809369	0.5111819	0.4888	AVRG		3.6670
20)MA	2-Butanone	0.1932225	0.2143967 0.2042626	0.1983388	0.1938877	0.1821089	0.1989045	0.1979	AVRG		5.0586
21)MA	cis-1,2-Dichloroethylene	0.4424369	0.4833056 0.4820991	0.4884593	0.4710676	0.4724559	0.4962486	0.4766	AVRG		3.6513
22)MA	2,2-Dichloropropane	0.3777294	0.4123996 0.4195707	0.3739330	0.3823041	0.3836381	0.4146150	0.3949	AVRG		4.9834
23)MA	Bromochloromethane	0.1102403	0.1208071 0.1215126	0.1214928	0.1191958	0.1174640	0.1224108	0.1190	AVRG		3.5408
24)MCA	Chloroform	0.4694419	0.5409819 0.5235636	0.5297033	0.5172502	0.5047821	0.5282995	0.5163	AVRG		4.5526
25)MA	1,1,1-Trichloroethane	0.4711324	0.5012932 0.5260631	0.4882488	0.4955859	0.4830488	0.5144997	0.4971	AVRG		3.7737
26)MA	Cyclohexane	0.4471950	0.4672134 0.4980429	0.4679617	0.4511660	0.4529760	0.4911979	0.4680	AVRG		4.2589
27)MA	1,1-Dichloropropene	0.3141886	0.3230805 0.3512126	0.3314641	0.3267582	0.3232654	0.3479905	0.3311	AVRG		4.1268
28)MA	Carbon tetrachloride	0.4390199	0.4532489 0.4858556	0.4615311	0.4452596	0.4486592	0.4802346	0.4591	AVRG		3.8825
29)SA	1,2-Dichloroethane-d4	0.4493873	0.4835145 0.4457246	0.4791916	0.4878870	0.4795811	0.4629841	0.4698	AVRG		3.6271
30)MA	1,2-Dichloroethane	0.4640808	0.5547918 0.5026552	0.5289952	0.5196311	0.5088531	0.5270108	0.5151	AVRG		5.4491
31)MA	Benzene	0.7592072	0.8298667 0.8418605	0.8624115	0.8276934	0.7964699	0.8418698	0.8228	AVRG		4.1831

Response Factor Report VOA2
GEL Laboratories, LLC

Method File : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Last Update : Tue Feb 09 07:23:51 2010
Integrator : (RTE Integrator)

Response via : Initial Calibration

For Linear Calibration: $y = \text{concentration ratio}$, $x = \text{response ratio}$. $y = b + m_1(x) + m_2(xE2)$

b	Compound	8 6	1 7	2	3	4	5	Avg	Curve	Exp	%RSD/r ²
32)MA	Cyclohexene	0.4285227	0.4267510 0.4817734	0.4289569	0.4254267	0.4312167	0.4646314	0.4410	AVRG		5.1229
33)MA	n-Butyl alcohol -0.0284 | 0.0094 | 0.00	8893 1226539	17184 3023298	34775	92685	208198	488540		LINR	#	0.9955
34)MA	Trichloroethylene	0.2449918	0.2794848 0.2686690	0.2643062	0.2527454	0.2485155	0.2626566	0.2602	AVRG		4.6805
35)MCA	1,2-Dichloropropane	0.2251402	0.2420783 0.2461915	0.2411483	0.2403527	0.2356097	0.2509687	0.2402	AVRG		3.4168
36)MA	Methylcyclohexane	0.3612009	0.3578179 0.4020484	0.3643828	0.3750775	0.3675104	0.3984723	0.3752	AVRG		4.7882
37)MA	Dibromomethane	0.1483675	0.1679230 0.1636479	0.1584689	0.1585716	0.1561258	0.1642157	0.1596	AVRG		4.0241
38)MA	Bromodichloromethane	0.3678791	0.3546459 0.4121533	0.3626603	0.3710179	0.3729633	0.4000765	0.3773	AVRG		5.5252
39)MA	2-Chloroethylvinyl ether	0.1567308	0.1278242 0.1566863	0.1349665	0.1849462	0.1572007	0.1467568	0.1522	AVRG		12.1739
40)MA	cis-1,3-Dichloropropylene	0.3627829	0.3279546 0.3970433	0.3257225	0.3482394	0.3634692	0.3855539	0.3587	AVRG		7.5267
42)MA	4-Methyl-2-pentanone	0.1285322	0.1264513 0.1469034	0.1244257	0.1306816	0.1309186	0.1420854	0.1329	AVRG		6.3108
43)SA	Toluene-d8	1.3132592	1.3595180 1.3294873	1.3303319	1.3731445	1.3471060	1.3048459	1.3368	AVRG		1.8358
44)MCA	Toluene	1.1081224	1.2710429 1.2609386	1.2502996	1.2251512	1.1548606	1.2090236	1.2113	AVRG		4.9511
45)MA	trans-1,3-Dichloropropyl	0.4834569	0.4439162 0.5458992	0.4403587	0.4514991	0.4755303	0.5158531	0.4795	AVRG		8.2301
46)MA	1,1,2-Trichloroethane	0.1970839	0.2413431 0.2194079	0.2027205	0.2112556	0.2087084	0.2156664	0.2137	AVRG		6.6935
47)MA	2-Hexanone	0.3545846	0.3667027 0.3838565	0.3509497	0.3625583	0.3542301	0.3704724	0.3633	AVRG		3.1719

Response Factor Report VOA2

GEL Laboratories, LLC

Method File : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M

Last Update : Tue Feb 09 07:23:51 2010

Integrator : (RTE Integrator)

Response via : Initial Calibration

For Linear Calibration: $y = \text{concentration ratio}$, $x = \text{response ratio}$. $y = b + m1(x) + m2(xE2)$

b	Compound	8 6	1 7	2	3	4	5	Avg	Curve	Exp	%RSD/r ²
48)MA	1,3-Dichloropropane	0.4297940	0.4727896 0.4694456	0.4622998	0.4651768	0.4632780	0.4752647	0.4626	AVRG		3.2957
49)MA	Tetrachloroethylene	0.2267888	0.2623605 0.2448461	0.2583163	0.2511055	0.2441847	0.2476409	0.2479	AVRG		4.6486
50)MA	Dibromochloromethane	0.3506480	0.3366866 0.3935728	0.3124016	0.3311476	0.3371551	0.3646922	0.3466	AVRG		7.5838
51)MA	1,2-Dibromoethane	0.2728966	0.2926113 0.3078787	0.2714167	0.2844344	0.2832328	0.2971114	0.2871	AVRG		4.5686
52)MPA	Chlorobenzene	0.7518867	0.8725794 0.8292179	0.8512478	0.8319312	0.8037581	0.8326800	0.8248	AVRG		4.6629
53)MA	1,1,1,2-Tetrachloroethan	0.3183981	0.3517865 0.3614958	0.3174039	0.3293878	0.3273197	0.3473114	0.3362	AVRG		5.1550
54)MCA	Ethylbenzene	1.4308594	1.5585018 1.5905507	1.5175311	1.5168790	1.4941160	1.5606409	1.5242	AVRG		3.4534
55)MA	m,p-Xylenes	0.5139219	0.5344900 0.5594257	0.5583481	0.5573713	0.5482292	0.5704077	0.5489	AVRG		3.4615
56)MA	o-Xylene	0.5072279	0.5394127 0.5613680	0.5344382	0.5514857	0.5297739	0.5700773	0.5420	AVRG		3.8966
57)MA	Styrene	0.8574683	0.7510662 0.9470033	0.7791342	0.8309731	0.8524647	0.9286988	0.8495	AVRG		8.4385
59)MPA	Bromoform	0.4104571	0.3597634 0.4665951	0.3157838	0.3555779	0.3794693	0.4263683	0.3877	AVRG		13.0199
60)MA	Isopropylbenzene	2.5346329	2.3466190 2.8101659	2.5119206	2.5137175	2.5810981	2.7443144	2.5775	AVRG		6.0414
61)SA	Bromofluorobenzene	1.0584389	1.0813555 1.0378029	1.0595063	1.1035935	1.1017281	1.0689952	1.0731	AVRG		2.2444
62)MPA	1,1,2,2-Tetrachloroethan	0.5612177	0.6022957 0.6290405	0.6001403	0.6004978	0.6018823	0.6349359	0.6043	AVRG		3.9672
63)MA	1,2,3-Trichloropropane	0.1988586	0.2407100 0.2145685	0.2175577	0.2111332	0.2138304	0.2192350	0.2166	AVRG		5.7970

Response via : Initial Calibration

For Linear Calibration: $y = \text{concentration ratio}$, $x = \text{response ratio}$. $y = b + m_1(x) + m_2(xE2)$

b	Compound ml | m2	8 6	1 7	2	3	4	5	Avg	Curve	Exp	%RSD/r^2
64)MA	Bromobenzene	0.5905440	0.6929741 0.6248895	0.6351761	0.6391254	0.6277932	0.6568598	0.6382	AVRG		4.9198
65)MA	n-Propylbenzene	2.9912150	3.0479233 3.2730236	3.0295274	3.0529018	3.0801281	3.2738688	3.1069	AVRG		3.7617
66)MA	1,3,5-Trimethylbenzene	2.2168634	2.1558038 2.4594471	2.2455645	2.2783627	2.3032491	2.4317728	2.2987	AVRG		4.8286
67)MA	2-Chlorotoluene	0.5492229	0.5900606 0.5909517	0.5913289	0.5763096	0.5939605	0.6094014	0.5859	AVRG		3.2134
68)MA	4-Chlorotoluene	1.9532325	2.1105947 2.1063288	2.0731548	2.0972769	2.0341623	2.1438286	2.0741	AVRG		3.0477
69)MA	tert-Butylbenzene	0.4094003	0.4259717 0.4466479	0.3952543	0.4139534	0.4168020	0.4366265	0.4207	AVRG		4.1067
70)MA	1,2,4-Trimethylbenzene	2.2832559	2.1310733 2.5177933	2.3033002	2.3638810	2.3789668	2.4964812	2.3535	AVRG		5.6240
71)MA	sec-Butylbenzene	2.7884688	2.6749703 3.1094382	2.7933399	2.8499816	2.8302296	3.0455651	2.8703	AVRG		5.3351
72)MA	4-Isopropyltoluene	2.2676282	2.0984464 2.5317936	2.1943325	2.2696990	2.2809850	2.4752993	2.3026	AVRG		6.5990
73)MA	1,3-Dichlorobenzene	1.1354520	1.3783121 1.2388714	1.2984228	1.2716738	1.2051841	1.2592236	1.2553	AVRG		6.0337
74)MA	1,4-Dichlorobenzene	1.1423298	1.4107655 1.2640576	1.3455429	1.2859630	1.2395390	1.2858558	1.2820	AVRG		6.5480
75)MA	n-Butylbenzene	2.2268940	2.0784017 2.4774319	2.1388626	2.2588152	2.2311864	2.4447810	2.2652	AVRG		6.5184
76)MA	1,2-Dichlorobenzene	1.1160962	1.3021249 1.2351631	1.2413166	1.2284723	1.1977600	1.2492867	1.2243	AVRG		4.6586
77)MA	1,2-Dibromo-3-chloroprop -0.0071 | 0.1664 | 0.00	93251	1257 242831	2643	7045	15838	37794		LINR		0.9920
78)MA	1,2,4-Trichlorobenzene	0.7426366	0.8684304 0.8186192	0.7714172	0.7850557	0.7896223	0.8344884	0.8015	AVRG		5.2548

For Linear Calibration: $y = \text{concentration ratio}$, $x = \text{response ratio}$, $y = b + m_1(x) + m_2(xE2)$

b		Compound		8	1	2	3	4	5	Avg	Curve	Exp	%RSD/r^2
		m1	m2	6	7								
79)MA	Hexachlorobutadiene			0.5053563	0.5355668 0.5524077	0.5704333	0.5308378	0.5063562	0.5440811	0.5350	AVRG		4.4218
80)MA	Naphthalene			1.9577230	2.0383991 2.2508726	1.8485060	1.9344198	2.0199423	2.1975330	2.0353	AVRG		7.0667
81)MA	1,2,3-Trichlorobenzene			0.7064339	0.8555011 0.7757320	0.7122969	0.7524710	0.7760794	0.7911914	0.7671	AVRG		6.6147
83)B	Chlorotrifluoroethylene			0.1492000	0.1164137 0.1485817	0.1326131	0.1220032	0.1368602	0.1496116	0.1365	AVRG		9.9578
84)B	2-Chloro-1,1,1-trifluoro			0.2893945	0.2800929 0.2643224	0.2799370	0.2702082	0.2882389	0.2681554	0.2772	AVRG		3.5560
85)B	Acrolein			0.0319999	0.0324946 0.0364690	0.0342483	0.0348479	0.0364615	0.0372441	0.0348	AVRG		5.8591
86)B	Trichlorotrifluoroethane			0.0994517	0.1322326 0.0978273	0.1071685	0.1161546	0.1059989	0.1087101	0.1096	AVRG		10.6385
87)B	Isopropyl Alcohol			0.0210920	0.0179089 0.0212701	0.0181369	0.0195546	0.0212252	0.0212524	0.0201	AVRG		7.5836
88)B	Allyl chloride			0.4222458	0.4545685 0.4184737	0.4262674	0.4756924	0.4422175	0.4646444	0.4434	AVRG		5.0278
89)B	tert-Butyl Alcohol			0.0343831	0.0287422 0.0345005	0.0292391	0.0317481	0.0345345	0.0342591	0.0325	AVRG		7.9578
90)B	Acrylonitrile			0.0899598	0.0891525 0.0939886	0.0868742	0.1010871	0.0929714	0.0961857	0.0929	AVRG		5.1632
91)B	Isopropyl ether			1.0061573	0.9018735 0.9841774	0.9202948	0.9145859	1.0195764	0.9953345	0.9631	AVRG		5.0973
92)B	2-Chloro-1,3-butadiene			0.4715087	0.4277028 0.4898773	0.4136368	0.4738017	0.4599513	0.4927616	0.4613	AVRG		6.5447
93)B	Ethyl tert-butyl ether			0.9123552	0.7914380 0.9128470	0.7606370	0.7878931	0.8850720	0.8897807	0.8486	AVRG		7.7439
94)B	Ethyl acetate			0.2557911	0.2563185 0.2650283	0.2285945	0.2753170	0.2620162	0.2638005	0.2581	AVRG		5.6393

Response Factor Report VOA2

GEL Laboratories, LLC

Method File : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M

Last Update : Tue Feb 09 07:23:51 2010

Integrator : (RTE Integrator)

Response via : Initial Calibration

For Linear Calibration: $y = \text{concentration ratio}$, $x = \text{response ratio}$. $y = b + m_1(x) + m_2(xE2)$

b	Compound	8 6	1 7	2	3	4	5	Avg	Curve	Exp	%RSD/r ²
95)B	Propionitrile	0.0355775	0.0343665 0.0365184	0.0345183	0.0397087	0.0373304	0.0375429	0.0365	AVRG		5.1732
96)B	Methacrylonitrile	0.1631315	0.1502398 0.1659025	0.1523707	0.1748464	0.1670866	0.1700117	0.1634	AVRG		5.5287
97)B	Tetrahydrofuran	0.0773322	0.0738544 0.0802637	0.0746770	0.0847126	0.0802671	0.0805577	0.0788	AVRG		4.8027
98)B	Isobutyl alcohol	0.0105477	0.0085382 0.0110360	0.0094221	0.0110983	0.0105808	0.0107461	0.0103	AVRG		9.2188
99)B	Methyl tert-amyl ether	0.6939067	0.5658213 0.6988648	0.5672276	0.5850750	0.6420628	0.6617468	0.6307	AVRG		9.1669
100)B	Methyl methacrylate	0.1350331	0.1128347 0.1433151	0.1146356	0.1357007	0.1337856	0.1404202	0.1308	AVRG		9.2790
101)B	1,4-Dioxane	0.0022907	0.0021698 0.0024386	0.0021408	0.0026996	0.0025082	0.0025022	0.0024	AVRG	#	8.4482
102)B	2-Nitropropane -0.0149 | 0.1048 | 0.00	763997	8353 1712270	18093	60500	127129	286916		LINR		0.9990
104)B	Ethyl methacrylate	0.3557549	0.2835932 0.3737640	0.2953970	0.3556121	0.3495975	0.3699931	0.3405	AVRG		10.5832
106)B	1-Chlorohexane	0.7265157	0.6464931 0.7219637	0.7038167	0.6311655	0.7594128	0.7321970	0.7031	AVRG		6.6968
107)B	cis-1,4-Dichloro-2-buten	0.2724380	0.2222016 0.2854765	0.2356903	0.2815962	0.2761222	0.2878160	0.2659	AVRG		9.8060
108)B	Cyclohexanone	0.0856062	0.0759872 0.0957121	0.0824440	0.0944075	0.0981714	0.0938264	0.0895	AVRG		9.1747
109)B	trans-1,4-Dichloro-2-but	0.2635188	0.2330322 0.2720184	0.2320676	0.2807521	0.2761514	0.2807712	0.2626	AVRG		8.1363
110)B	Pentachloroethane	0.2114989	0.1559725 0.1772137	0.1525832	0.2021066	0.1537038	0.1909779	0.1777	AVRG		13.7699
111)B	Benzyl chloride	0.8686371	0.6255763 0.9077933	0.6749733	0.8245367	0.8352888	0.8831198	0.8028	AVRG		13.5576

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Response via : Initial Calibration

For Linear Calibration: $y = \text{concentration ratio}, x = \text{response ratio. } y = b + m1(x) + m2(xE2)$

b	Compound	8	1	2	3	4	5	Avg	Curve	Exp	%RSD/r^2
	m1	6	7								
m2	bis(2-Chloroisopropyl)et		0.3286846	0.3511178	0.4227192	0.4266323	0.4281968				
		0.4291003	0.4389819					0.4036	AVRG		10.9729

##) = Out of Range

Continuing Calibration Summary

Client SDG: 10-1620

Instrument ID: VOA2.I

Injection Date 09-FEB-10 03:31

Data File: 020810V2.b\2Y139.D

Init. Cal. Date(s) 08-FEB-10 17:51 - 09-FEB-10 02:32

Lab Sample ID W2VM100208-27 Quant Type ISTD

Method: 020810V2.b\VOA2-8260-020810.M

Compound	AVERF / Amount	RF CCV	Nominal CCV	Min RF	RF Q	%D / %Drift	Max	Drift Q	Curve Type
S1,2-Dichloroethane-d4	0.4698	0.43921		.01		-6.51128	30		Averaged
S Toluene-d8	1.3368	1.28455		.01		-3.90859	30		Averaged
S Bromofluorobenzene	1.0731	1.06147		.01		-1.08378	30		Averaged
Chlorotrifluoroethylene	0.1365	0.11151		.01		-18.30769	30		Averaged
2-Chloro-1,1,1-trifluoroethane	0.2772	0.25476		.01		-8.09524	30		Averaged
Acrolein	0.0348	0.03022		.01		-13.16092	30		Averaged
Trichlorotrifluoroethane	0.1096	0.10538		.01		-3.85036	30		Averaged
Isopropyl Alcohol	0.0201	0.01828		.01		-9.05473	40		Averaged
Allyl chloride	0.4434	0.42431		.01		-4.30537	30		Averaged
tert-Butyl Alcohol	0.0325	0.02897		.01		-10.86154	40		Averaged
Acrylonitrile	0.0929	0.09089		.01		-2.16362	30		Averaged
Isopropyl ether	0.9631	0.9029		.01		-6.25065	30		Averaged
2-Chloro-1,3-butadiene	0.4613	0.47979		.01		4.00824	30		Averaged
Ethyl tert-butyl ether	0.8486	0.81193		.01		-4.32123	30		Averaged
Propionitrile	0.0365	0.03451		.01		-5.45205	30		Averaged
Ethyl acetate	0.2581	0.23624		.01		-8.46959	40		Averaged
Methacrylonitrile	0.1634	0.15756		.01		-3.57405	30		Averaged
Tetrahydrofuran	0.0788	0.07772		.01		-1.37056	30		Averaged
Isobutyl alcohol	0.0103	0.00972		.01		-5.63107	40		Averaged
Methyl tert-amyl ether	0.6307	0.60346		.01		-4.31901	30		Averaged
Methyl methacrylate	0.1308	0.13235		.01		1.18502	30		Averaged
1,4-Dioxane	0.0024	0.00234		.01		-2.5	40		Averaged
2-Nitropropane	250	231.85	250			-7.26	30		Linear
Ethyl methacrylate	0.3405	0.34758		.01		2.0793	30		Averaged
1-Chlorohexane	0.7031	0.65278		.01		-7.15688	30		Averaged
cis-1,4-Dichloro-2-butene	0.2659	0.27739		.01		4.32117	30		Averaged
Cyclohexanone	0.0895	0.02509		.01		-71.96648	40	*	Averaged
trans-1,4-Dichloro-2-butene	0.2626	0.26589		.01		1.25286	30		Averaged
Pentachloroethane	0.1777	0.21027		.01		18.32864	30		Averaged
Benzyl chloride	0.8028	0.75661		.01		-5.75361	30		Averaged
bis(2-Chloroisopropyl)ether	0.4036	0.40039		.01		-0.79534	30		Averaged

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\020810V2.b\
Data File : 2Y139.D
Acq On : 9 Feb 2010 3:31 am
Operator : CDS1
InstName : VOA2
Sample : |W2VM100208-27|ICV|1|VOAF|1|
Misc : ICV 5ML - MIX[B] 0118-08B/0125-08B
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 09 07:53:00 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev(Min)
1) Fluorobenzene	12.425	12.437	1.000	96	1556807	50.00	ug/L	-0.01
41) Chlorobenzene-d5	15.970	15.970	1.000	117	1219568	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	699193	50.00	ug/L	0.00
82) B Fluorobenzene	12.425	12.437	1.000	96	1556674	50.00	ug/L	-0.01
103) B Chlorobenzene-d5	15.970	15.971	1.000	117	1220336	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	699246	50.00	ug/L	0.00
System Monitoring Compounds								Dev(Min)
29) 1,2-Dichloroethane-d4	11.962	11.986	0.963	65	683764	46.75	ug/L	-0.02
43) Toluene-d8	14.334	14.346	0.898	98	1566598	48.05	ug/L	-0.01
61) Bromofluorobenzene	17.215	17.227	0.933	95	742170	49.46	ug/L	-0.01
Target Compounds								QValue
2) Dichlorodifluoromethane	4.613	4.702	0.371		0m	N.D.	d	
3) Chloromethane	4.984	4.999	0.401		0m	N.D.	d	
4) Vinyl chloride	5.237	5.266	0.421		0m	N.D.	d	
5) Bromomethane	0.000	5.980	0.000		0	N.D.		
6) Chloroethane	0.000	6.223	0.000		0	N.D.		
7) Trichlorofluoromethane	6.804	6.839	0.548		0m	N.D.	d	
8) Ethyl ether	0.000	7.409	0.000		0	N.D.		
9) Acetone	7.895	7.930	0.635		0m	N.D.	d	
10) 1,1-Dichloroethylene	7.907	7.883	0.636		0m	N.D.	d	
11) Iodomethane	8.156	8.167	0.656		0m	N.D.	d	
12) Acetonitrile	8.535	8.452	0.687		0m	N.D.	d	
13) Methyl acetate	8.559	8.571	0.689		0m	N.D.	d	
14) Carbon disulfide	8.298	8.322	0.668		0m	N.D.	d	
15) Methylene chloride	8.749	8.772	0.704		0m	N.D.	d	
16) tert-Butyl methyl ether	9.258	9.282	0.745		0m	N.D.	d	
17) trans-1,2-Dichloroethy...	9.247	9.270	0.744		0m	N.D.	d	
18) Vinyl acetate	10.041	10.017	0.808		0m	N.D.	d	
19) 1,1-Dichloroethane	9.934	9.958	0.800		0m	N.D.	d	
20) 2-Butanone	10.895	10.836	0.877		0m	N.D.	d	
21) cis-1,2-Dichloroethylene	10.895	10.848	0.877		0m	N.D.	d	
22) 2,2-Dichloropropane	10.859	10.871	0.874		0m	N.D.	d	
23) Bromochloromethane	0.000	11.203	0.000		0	N.D.		
24) Chloroform	11.274	11.298	0.907		0m	N.D.	d	
25) 1,1,1-Trichloroethane	11.583	11.606	0.932		0m	N.D.	d	
26) Cyclohexane	11.701	11.713	0.942		0m	N.D.	d	
27) 1,1-Dichloropropene	11.844	11.820	0.953		0m	N.D.	d	
28) Carbon tetrachloride	0.000	11.844	0.000		0	N.D.		
30) 1,2-Dichloroethane	12.069	12.093	0.971		0m	N.D.	d	
31) Benzene	12.081	12.093	0.972		0m	N.D.	d	
32) Cyclohexene	12.187	12.247	0.981		0m	N.D.	d	
33) n-Butyl alcohol	12.686	12.697	1.021		0m	N.D.	d	
34) Trichloroethylene	12.887	12.899	1.037		0m	N.D.	d	
35) 1,2-Dichloropropane	13.160	13.172	1.059		0m	N.D.	d	
36) Methylcyclohexane	13.172	13.184	1.060		0m	N.D.	d	
37) Dibromomethane	0.000	13.314	0.000		0	N.D.		
38) Bromodichloromethane	13.468	13.480	1.084		0m	N.D.	d	
39) 2-Chloroethylvinyl ether	0.000	13.800	0.000		0	N.D.		
40) cis-1,3-Dichloropropylene	14.002	14.002	1.127		0m	N.D.	d	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\020810V2.b\
Data File : 2Y139.D
Acq On : 9 Feb 2010 3:31 am
Operator : CDS1
InstName : VOA2
Sample : |W2VM100208-27|ICV|1|VOAF|1|
Misc : ICV 5ML - MIX[B] 0118-08B/0125-08B
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 09 07:53:00 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
42) 4-Methyl-2-pentanone	14.132	14.144	0.885		0m	N.D.	d
44) Toluene	14.417	14.429	0.903		0m	N.D.	d
45) trans-1,3-Dichloroprop...	14.618	14.618	0.915		0m	N.D.	d
46) 1,1,2-Trichloroethane	14.832	14.844	0.929		0m	N.D.	d
47) 2-Hexanone	15.057	15.069	0.943		0m	N.D.	d
48) 1,3-Dichloropropane	15.034	15.045	0.941		0m	N.D.	d
49) Tetrachloroethylene	15.057	15.069	0.943		0m	N.D.	d
50) Dibromochloromethane	15.306	15.318	0.958		0m	N.D.	d
51) 1,2-Dibromoethane	15.472	15.472	0.969		0m	N.D.	d
52) Chlorobenzene	15.994	16.006	1.001		0m	N.D.	d
53) 1,1,1,2-Tetrachloroethane	16.065	16.077	1.006		0m	N.D.	d
54) Ethylbenzene	16.089	16.101	1.007		0m	N.D.	d
55) m,p-Xylenes	16.208	16.219	1.015		0m	N.D.	d
56) o-Xylene	16.658	16.658	1.043		0m	N.D.	d
57) Styrene	16.658	16.658	1.043		0m	N.D.	d
59) Bromoform	0.000	16.895	0.000		0	N.D.	
60) Isopropylbenzene	17.038	17.038	0.923		0m	N.D.	d
62) 1,1,2,2-Tetrachloroethane	17.370	17.310	0.941		0m	N.D.	d
63) 1,2,3-Trichloropropane	0.000	17.393	0.000		0	N.D.	
64) Bromobenzene	17.417	17.429	0.943		0m	N.D.	d
65) n-Propylbenzene	17.476	17.476	0.947		0m	N.D.	d
66) 1,3,5-Trimethylbenzene	17.642	17.642	0.956		0m	N.D.	d
67) 2-Chlorotoluene	17.607	17.607	0.954		0m	N.D.	d
68) 4-Chlorotoluene	17.714	17.714	0.960		0m	N.D.	d
69) tert-Butylbenzene	18.057	18.010	0.978		0m	N.D.	d
70) 1,2,4-Trimethylbenzene	18.081	18.057	0.979		0m	N.D.	d
71) sec-Butylbenzene	18.235	18.235	0.988		0m	N.D.	d
72) 4-Isopropyltoluene	18.366	18.366	0.995		0m	N.D.	d
73) 1,3-Dichlorobenzene	18.401	18.401	0.997		0m	N.D.	d
74) 1,4-Dichlorobenzene	18.484	18.496	1.001		0m	N.D.	d
75) n-Butylbenzene	0.000	18.805	0.000		0	N.D.	
76) 1,2-Dichlorobenzene	18.899	18.899	1.024		0m	N.D.	d
77) 1,2-Dibromo-3-chloropr...	0.000	19.718	0.000		0	N.D.	
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121		0m	N.D.	d
79) Hexachlorobutadiene	20.868	20.868	1.130		0m	N.D.	d
80) Naphthalene	21.022	21.022	1.139		0m	N.D.	d
81) 1,2,3-Trichlorobenzene	21.330	21.342	1.155		0m	N.D.	d
83) Chlorotrifluoroethylene	4.627	4.628	0.372	116	520737	122.56	ug/L 99
84) 2-Chloro-1,1,1-trifluo...	5.474	5.489	0.441	118	1189715	137.86	ug/L 100
85) Acrolein	7.622	7.646	0.613	56	235252	216.99	ug/L 99
86) Trichlorotrifluoroethane	7.907	7.930	0.636	85	820236	240.27	ug/L 100
87) Isopropyl Alcohol	8.167	8.191	0.657	45	1422496	2277.35	ug/L 100
88) Allyl chloride	8.535	8.559	0.687	41	3302587	239.21	ug/L 100
89) tert-Butyl Alcohol	8.915	8.938	0.717	59	2254688	2229.22	ug/L 100
90) Acrylonitrile	9.140	9.164	0.736	53	707430	244.62	ug/L 99
91) Isopropyl ether	10.041	10.077	0.808	45	1405523	46.87	ug/L 100
92) 2-Chloro-1,3-butadiene	10.089	10.124	0.812	53	746879	52.00	ug/L 100
93) Ethyl tert-butyl ether	10.610	10.634	0.854	59	1263906	47.84	ug/L 100
94) Ethyl acetate	10.895	10.919	0.877	43	1838763	228.81	ug/L 100
95) Propionitrile	10.883	10.907	0.876	54	268611	236.32	ug/L 100
96) Methacrylonitrile	11.120	11.144	0.895	41	1226324	241.10	ug/L 100
97) Tetrahydrofuran	11.251	11.275	0.906	42	604899	246.53	ug/L 100

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\020810V2.b\
Data File : 2Y139.D
Acq On : 9 Feb 2010 3:31 am
Operator : CDS1
InstName : VOA2
Sample : |W2VM100208-27|ICV|1|VOAF|1|
Misc : ICV 5ML - MIX[B] 0118-08B/0125-08B
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 09 07:53:00 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

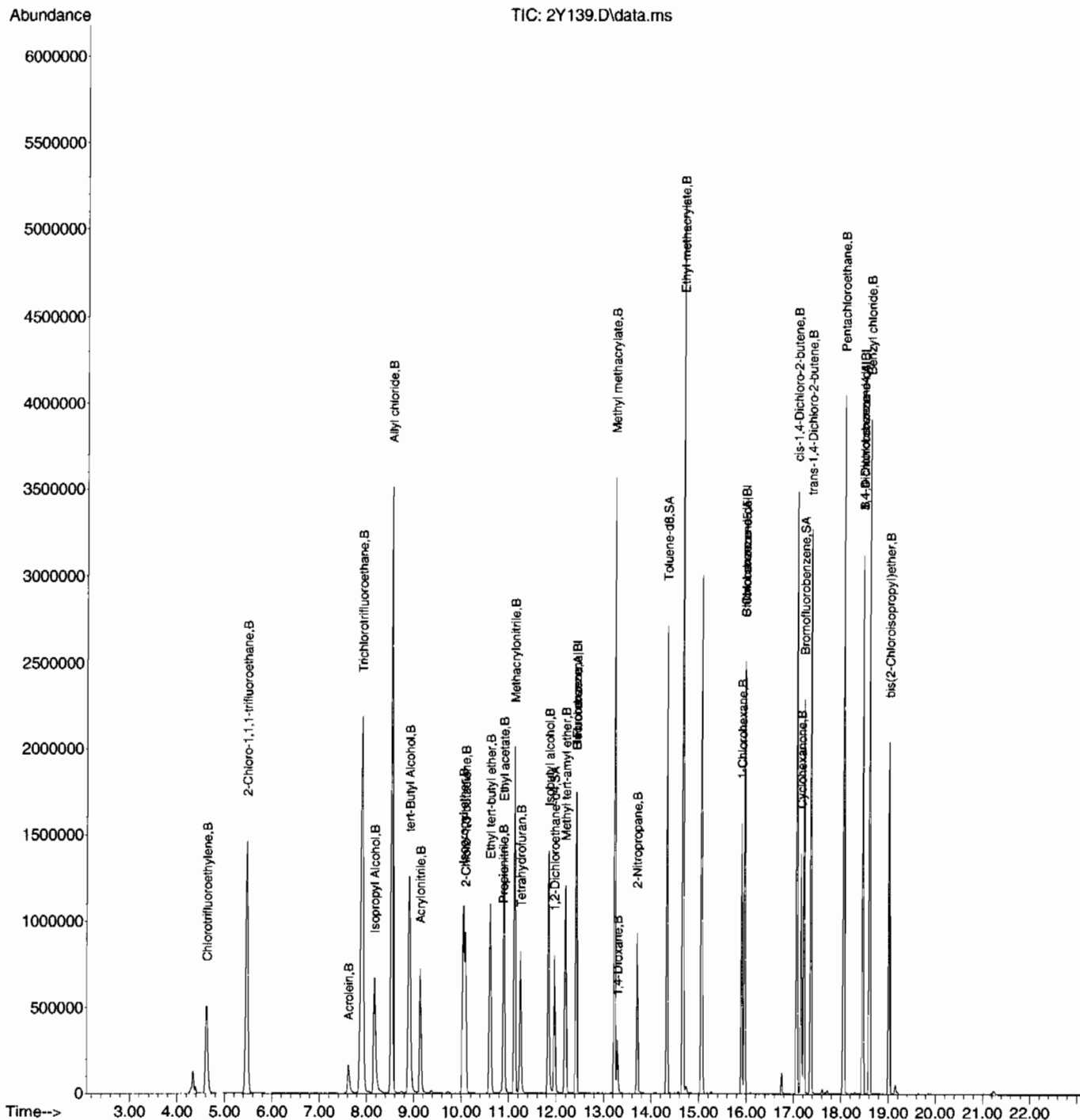
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
98) Isobutyl alcohol	11.844	11.856	0.953	41	756524	2363.45	ug/L	100
99) Methyl tert-amyl ether	12.199	12.211	0.982	73	939386	47.84	ug/L	98
100) Methyl methacrylate	13.231	13.243	1.065	69	1030116	252.92	ug/L	99
101) 1,4-Dioxane	13.290	13.314	1.070	88	181818	2440.59	ug/L	100
102) 2-Nitropropane	13.705	13.729	1.103	43	733083	231.85	ug/L	100
104) Ethyl methacrylate	14.666	14.678	0.918	69	2120792	255.17	ug/L	99
106) 1-Chlorohexane	15.899	15.911	0.861	55	456456	46.42	ug/L	99
107) cis-1,4-Dichloro-2-butene	17.061	17.073	0.924	53	969825	260.80	ug/L	100
108) Cyclohexanone	17.156	17.156	0.929	42	438609	350.62	ug/L	99
109) trans-1,4-Dichloro-2-b...	17.358	17.370	0.940	53	929626	253.12	ug/L	100
110) Pentachloroethane	18.057	18.058	0.978	167	735160	295.79	ug/L	100
111) Benzyl chloride	18.603	18.603	1.008	91	2645290	235.60	ug/L	100
112) bis(2-Chloroisopropyl)...	19.018	19.018	1.030	45	1399842	247.99	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\020810V2.b\
Data File : 2Y139.D
Acq On : 9 Feb 2010 3:31 am
Operator : CDS1
InstName : VOA2
Sample : |W2VM100208-27|ICV|1|VOAF|1|
Misc : ICV 5ML - MIX[B] 0118-08B/0125-08B
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 09 07:53:00 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE



Continuing Calibration Summary

Client SDG: 10-1620

Instrument ID: VOA2.I

Injection Date: 09-FEB-10 07:37

Data File: 020910V2.b\2Y203ICV.D

Init. Cal. Date(s) 08-FEB-10 17:51 - 09-FEB-10 02:32

Lab Sample ID W2VM100209-02

Quant Type ISTD

Method: 020810V2.b\VOA2-8260-020810.M

Compound	AVERF / Amount	RF CCV	Nominal CCV	Min RF	RF Q	%D / %Drift	Max	Drift Q	Curve Type	
S1,2-Dichloroethane-d4	0.4698	0.43604		.01		-7.18604	30		Averaged	
SToluene-d8	1.3368	1.31049		.01		-1.96813	30		Averaged	
SBromofluorobenzene	1.0731	1.03927		.01		-3.15255	30		Averaged	
Dichlorodifluoromethane	0.247	0.22307		.01		-9.68826	30		Averaged	
Chloromethane	0.2938	0.24789		.1		-15.62628	30		Averaged	spcc
Vinyl chloride	0.2682	0.25362		.01		-5.43624	20		Averaged	ccc
Bromomethane	50	56.04	50			12.08	30		Linear	
Chloroethane	0.18	0.1714		.01		-4.77778	30		Averaged	
Trichlorofluoromethane	0.4749	0.47419		.01		-0.14951	30		Averaged	
Ethyl ether	0.2175	0.21057		.01		-3.18621	30		Averaged	
1,1-Dichloroethylene	0.4725	0.45046		.01		-4.66455	20		Averaged	ccc
Acetone	0.2011	0.18314		.01		-8.93088	40		Averaged	
Iodomethane	0.3623	0.34397		.01		-5.05934	30		Averaged	
Carbon disulfide	0.6808	0.71962		.01		5.70212	30		Averaged	
Acetonitrile	0.036	0.03292		.01		-8.55556	30		Averaged	
Methyl acetate	0.2194	0.20577		.01		-6.2124	40		Averaged	
Methylene chloride	0.2541	0.23191		.01		-8.73278	30		Averaged	
trans-1,2-Dichloroethylene	0.426	0.41888		.01		-1.67136	30		Averaged	
tert-Butyl methyl ether	0.7088	0.69708		.01		-1.6535	30		Averaged	
1,1-Dichloroethane	0.4888	0.48719		.1		-0.32938	30		Averaged	spcc
Vinyl acetate	0.4606	0.62377		.01		35.42553	40		Averaged	
2-Butanone	0.1979	0.19116		.01		-3.40576	40		Averaged	
cis-1,2-Dichloroethylene	0.4766	0.48125		.01		0.97566	30		Averaged	
2,2-Dichloropropane	0.3949	0.44663		.01		13.09952	30		Averaged	
Bromochloromethane	0.119	0.11784		.01		-0.97479	30		Averaged	
Chloroform	0.5163	0.50782		.01		-1.64246	20		Averaged	ccc
1,1,1-Trichloroethane	0.4971	0.50695		.01		1.98149	30		Averaged	
Cyclohexane	0.468	0.50766		.01		8.47436	30		Averaged	
1,1-Dichloropropene	0.3311	0.36278		.01		9.56811	30		Averaged	
Carbon tetrachloride	0.4591	0.47644		.01		3.77695	30		Averaged	
1,2-Dichloroethane	0.5151	0.47467		.01		-7.84896	30		Averaged	
Benzene	0.8228	0.84658		.01		2.89013	30		Averaged	
Cyclohexene	0.441	0.47555		.01		7.83447	30		Averaged	
n-Butyl alcohol	5000	4893.12	5000			-2.1376	40		Linear	
Trichloroethylene	0.2602	0.2618		.01		0.61491	30		Averaged	
1,2-Dichloropropane	0.2402	0.24369		.01		1.45296	20		Averaged	ccc
Methylcyclohexane	0.3752	0.4187		.01		11.59382	30		Averaged	

Continuing Calibration Summary

Page 2 of 3

Instrument ID: VOA2.I

Injection Date 09-FEB-10 07:37

Data File: 020910V2.b\2Y203ICV.D

Init. Cal. Date(s) 08-FEB-10 17:51 09-FEB-10 02:32

Lab Sample ID W2VM100209-02

Quant Type ISTD

Method:020810V2.b\VOA2-8260-020810.M

Compound	AVERF / Amount	RF CCV	Nominal CCV	Min RF	RF Q	%D / %Drift	Max	Drift Q	Curve Type	
Dibromomethane	0.1596	0.15394		.01		-3.54637	30		Averaged	
Bromodichloromethane	0.3773	0.3911		.01		3.65757	30		Averaged	
2-Chloroethylvinyl ether	0.1522	0.1388		.01		-8.8042	30		Averaged	
cis-1,3-Dichloropropylene	0.3587	0.39817		.01		11.00362	30		Averaged	
4-Methyl-2-pentanone	0.1329	0.14931		.01		12.34763	40		Averaged	
Toluene	1.2113	1.24183		.01		2.52043	20		Averaged	ccc
trans-1,3-Dichloropropylene	0.4795	0.53617		.01		11.81856	30		Averaged	
1,1,2-Trichloroethane	0.2137	0.21239		.01		-0.61301	30		Averaged	
1,3-Dichloropropane	0.4626	0.45478		.01		-1.69045	30		Averaged	
Tetrachloroethylene	0.2479	0.26156		.01		5.51029	30		Averaged	
2-Hexanone	0.3633	0.37798		.01		4.04074	40		Averaged	
Dibromochloromethane	0.3466	0.36606		.01		5.61454	30		Averaged	
1,2-Dibromoethane	0.2871	0.28944		.01		0.81505	30		Averaged	
Chlorobenzene	0.8248	0.84525		.3		2.47939	30		Averaged	spcc
1,1,1,2-Tetrachloroethane	0.3362	0.34496		.01		2.60559	30		Averaged	
Ethylbenzene	1.5242	1.59026		.01		4.33408	20		Averaged	ccc
m,p-Xylenes	0.5489	0.57678		.01		5.07925	30		Averaged	
o-Xylene	0.542	0.56471		.01		4.19004	30		Averaged	
Styrene	0.8495	0.94151		.01		10.83108	30		Averaged	
Bromoform	0.3877	0.43537		.1		12.29559	30		Averaged	spcc
Isopropylbenzene	2.5775	2.84165		.01		10.2483	30		Averaged	
1,1,2,2-Tetrachloroethane	0.6043	0.62344		.3		3.1673	30		Averaged	spcc
1,2,3-Trichloropropane	0.2166	0.20996		.01		-3.06556	30		Averaged	
Bromobenzene	0.6382	0.64545		.01		1.13601	30		Averaged	
n-Propylbenzene	3.1069	3.40051		.01		9.45026	30		Averaged	
2-Chlorotoluene	0.5859	0.62825		.01		7.2282	30		Averaged	
1,3,5-Trimethylbenzene	2.2987	2.49516		.01		8.54657	30		Averaged	
4-Chlorotoluene	2.0741	2.20255		.01		6.19305	30		Averaged	
tert-Butylbenzene	0.4207	0.45748		.01		8.74257	30		Averaged	
1,2,4-Trimethylbenzene	2.3535	2.56822		.01		9.12343	30		Averaged	
sec-Butylbenzene	2.8703	3.21386		.01		11.96948	30		Averaged	
4-Isopropyltoluene	2.3026	2.65654		.01		15.37132	30		Averaged	
1,3-Dichlorobenzene	1.2553	1.32227		.01		5.33498	30		Averaged	
1,4-Dichlorobenzene	1.282	1.34464		.01		4.88612	30		Averaged	
n-Butylbenzene	2.2652	2.69626		.01		19.02967	30		Averaged	
1,2-Dichlorobenzene	1.2243	1.25304		.01		2.34746	30		Averaged	
1,2-Dibromo-3-chloropropane	50	49.03	50			-1.94	30		Linear	

Continuing Calibration Summary

Instrument ID: VOA2.I

Injection Date 09-FEB-10 07:37

Data File: 020910V2.b\2Y2031CV.D

Init. Cal. Date(s) 08-FEB-10 17:51 09-FEB-10 02:32

Lab Sample ID W2VM100209-02 Quant Type ISTD

Method:020810V2.b\VOA2-8260-020810.M

Compound	AVERF / Amount	RF CCV	Nominal CCV	Min RF	RF Q	%D / %Drift	Max	Drift Q	Curve Type
1,2,4-Trichlorobenzene	0.8015	0.94666		.01		18.11104	30		Averaged
Hexachlorobutadiene	0.535	0.61731		.01		15.38505	30		Averaged
Naphthalene	2.0353	2.22342		.01		9.24286	30		Averaged
1,2,3-Trichlorobenzene	0.7671	0.86028		.01		12.14705	30		Averaged

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\020910V2.b\
Data File : 2Y203ICV.D
Acq On : 9 Feb 2010 7:37 am
Operator : CDS1
InstName : VOA2
Sample : |W2VM100209-02|ICV|1|VOAF|1|VOA8260BL|
Misc : ICV 5ML MIX[A] 0126-01C/0206-01
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 09 08:02:51 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev(Min)
1) Fluorobenzene	12.425	12.437	1.000	96	1646867	50.00	ug/L	-0.01
41) Chlorobenzene-d5	15.970	15.970	1.000	117	1282975	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	747157	50.00	ug/L	0.00
82) B Fluorobenzene	12.425	12.437	1.000	96	1646861	50.00	ug/L	-0.01
103) B Chlorobenzene-d5	15.970	15.971	1.000	117	1282975	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	747458	50.00	ug/L	0.00
System Monitoring Compounds								Dev(Min)
29) 1,2-Dichloroethane-d4	11.974	11.986	0.964	65	718098	46.41	ug/L	-0.01
43) Toluene-d8	14.346	14.346	0.898	98	1681323	49.02	ug/L	0.00
61) Bromofluorobenzene	17.216	17.227	0.933	95	776496	48.43	ug/L	-0.01
Target Compounds								
	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	QValue
2) Dichlorodifluoromethane	4.702	4.702	0.378	85	367360	45.16	ug/L	99
3) Chloromethane	4.999	4.999	0.402	50	408250	42.19	ug/L	99
4) Vinyl chloride	5.251	5.266	0.423	62	417675	47.28	ug/L	100
5) Bromomethane	5.980	5.980	0.481	94	201463	56.04	ug/L	97
6) Chloroethane	6.223	6.223	0.501	64	282275	47.61	ug/L	99
7) Trichlorofluoromethane	6.839	6.839	0.550	101	780930	49.92	ug/L	99
8) Ethyl ether	7.397	7.409	0.595	59	346785	48.41	ug/L	97
9) Acetone	7.918	7.930	0.637	43	1508060	227.66	ug/L	97
10) 1,1-Dichloroethylene	7.871	7.883	0.633	61	741841	47.67	ug/L	99
11) Iodomethane	8.156	8.167	0.656	142	2832374	237.38	ug/L	97
12) Acetonitrile	8.440	8.452	0.679	41	1355211	1144.40	ug/L	99
13) Methyl acetate	8.559	8.571	0.689	43	1694374	234.49	ug/L	99
14) Carbon disulfide	8.310	8.322	0.669	76	5925586	264.25	ug/L	100
15) Methylene chloride	8.760	8.772	0.705	84	381933	45.64	ug/L	96
16) tert-Butyl methyl ether	9.258	9.282	0.745	73	1148006	49.17	ug/L	100
17) trans-1,2-Dichloroethy...	9.258	9.270	0.745	61	689837	49.16	ug/L	98
18) Vinyl acetate	10.006	10.017	0.805	43	5136314	338.53	ug/L	99
19) 1,1-Dichloroethane	9.946	9.958	0.801	63	802335	49.83	ug/L	100
20) 2-Butanone	10.824	10.836	0.871	43	1574107	241.52	ug/L	98
21) cis-1,2-Dichloroethylene	10.848	10.848	0.873	61	792547	50.49	ug/L	99
22) 2,2-Dichloropropane	10.859	10.871	0.874	77	735535	56.55	ug/L	95
23) Bromochloromethane	11.191	11.203	0.901	128	194074	49.51	ug/L	96
24) Chloroform	11.286	11.298	0.908	83	836313	49.18	ug/L	100
25) 1,1,1-Trichloroethane	11.595	11.606	0.933	97	834874	50.99	ug/L	99
26) Cyclohexane	11.701	11.713	0.942	56	836047	54.24	ug/L	98
27) 1,1-Dichloropropene	11.808	11.820	0.950	75	597455	54.78	ug/L	95
28) Carbon tetrachloride	11.832	11.844	0.952	117	784632	51.89	ug/L	100
30) 1,2-Dichloroethane	12.081	12.093	0.972	62	781715	46.07	ug/L	100
31) Benzene	12.093	12.093	0.973	78	1394209	51.45	ug/L	98
32) Cyclohexene	12.235	12.247	0.985	67	783173	53.91	ug/L	96
33) n-Butyl alcohol	12.686	12.697	1.021	56	1476204	4893.12	ug/L	98
34) Trichloroethylene	12.899	12.899	1.038	95	431143	50.31	ug/L	97
35) 1,2-Dichloropropane	13.172	13.172	1.060	63	401331	50.72	ug/L	99
36) Methylcyclohexane	13.172	13.184	1.060	83	689542	55.79	ug/L	97
37) Dibromomethane	13.314	13.314	1.072	93	253511	48.22	ug/L	98
38) Bromodichloromethane	13.480	13.480	1.085	83	644085	51.82	ug/L	100
39) 2-Chloroethylvinyl ether	13.788	13.800	1.110	63	1142914	228.05	ug/L	99
40) cis-1,3-Dichloropropylene	14.002	14.002	1.127	75	655733	55.50	ug/L	96

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\020910V2.b\
Data File : 2Y203ICV.D
Acq On : 9 Feb 2010 7:37 am
Operator : CDS1
InstName : VOA2
Sample : |W2VM100209-02|ICV|1|VOAF|1|VOA8260BL|
Misc : ICV 5ML MIX[A] 0126-01C/0206-01
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 09 08:02:51 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
42) 4-Methyl-2-pentanone	14.144	14.144	0.886	58	957814	280.96	ug/L	94
44) Toluene	14.417	14.429	0.903	91	1593237	51.26	ug/L	99
45) trans-1,3-Dichloroprop...	14.619	14.618	0.915	75	687892	55.91	ug/L	98
46) 1,1,2-Trichloroethane	14.844	14.844	0.929	83	272491	49.68	ug/L	99
47) 2-Hexanone	15.069	15.069	0.944	43	2424685	260.07	ug/L	97
48) 1,3-Dichloropropane	15.034	15.045	0.941	76	583475	49.16	ug/L	98
49) Tetrachloroethylene	15.057	15.069	0.943	164	335575	52.76	ug/L	99
50) Dibromochloromethane	15.318	15.318	0.959	129	469646	52.81	ug/L	100
51) 1,2-Dibromoethane	15.472	15.472	0.969	107	371346	50.41	ug/L	100
52) Chlorobenzene	16.006	16.006	1.002	112	1084431	51.24	ug/L	99
53) 1,1,1,2-Tetrachloroethane	16.065	16.077	1.006	131	442575	51.31	ug/L	100
54) Ethylbenzene	16.089	16.101	1.007	91	2040270	52.17	ug/L	100
55) m,p-Xylenes	16.208	16.219	1.015	106	1479983	105.08	ug/L	100
56) o-Xylene	16.658	16.658	1.043	106	724515	52.10	ug/L	98
57) Styrene	16.658	16.658	1.043	104	1207938	55.41	ug/L	98
59) Bromoform	16.895	16.895	0.915	173	325292	56.15	ug/L	99
60) Isopropylbenzene	17.038	17.038	0.923	105	2123157	55.12	ug/L	99
62) 1,1,2,2-Tetrachloroethane	17.310	17.310	0.938	83	465811	51.59	ug/L	100
63) 1,2,3-Trichloropropane	17.393	17.393	0.942	110	156873	48.48	ug/L	96
64) Bromobenzene	17.429	17.429	0.944	156	482255	50.57	ug/L	99
65) n-Propylbenzene	17.476	17.476	0.947	91	2540714	54.72	ug/L	99
66) 1,3,5-Trimethylbenzene	17.642	17.642	0.956	105	1864276	54.27	ug/L	100
67) 2-Chlorotoluene	17.607	17.607	0.954	126	469400	53.61	ug/L	96
68) 4-Chlorotoluene	17.714	17.714	0.960	91	1645653	53.10	ug/L	100
69) tert-Butylbenzene	18.010	18.010	0.976	134	341806	54.38	ug/L	98
70) 1,2,4-Trimethylbenzene	18.046	18.057	0.978	105	1918865	54.56	ug/L	100
71) sec-Butylbenzene	18.235	18.235	0.988	105	2401261	55.99	ug/L	100
72) 4-Isopropyltoluene	18.366	18.366	0.995	119	1984852	57.69	ug/L	99
73) 1,3-Dichlorobenzene	18.401	18.401	0.997	146	987943	52.67	ug/L	100
74) 1,4-Dichlorobenzene	18.496	18.496	1.002	146	1004659	52.44	ug/L	99
75) n-Butylbenzene	18.805	18.805	1.019	91	2014528	59.51	ug/L	100
76) 1,2-Dichlorobenzene	18.899	18.899	1.024	146	936214	51.17	ug/L	100
77) 1,2-Dibromo-3-chloropr...	19.706	19.718	1.067	157	116547	49.03	ug/L	97
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	707303	59.06	ug/L	100
79) Hexachlorobutadiene	20.868	20.868	1.130	225	461230	57.69	ug/L	99
80) Naphthalene	21.022	21.022	1.139	128	1661243	54.62	ug/L	100
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156	180	642767	56.07	ug/L	99
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.		
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.		
85) Acrolein	7.681	7.646	0.618		0m	N.D.	d	
86) Trichlorotrifluoroethane	7.907	7.930	0.636		0m	N.D.	d	
87) Isopropyl Alcohol	8.298	8.191	0.668		0m	N.D.	d	
88) Allyl chloride	0.000	8.559	0.000		0	N.D.		
89) tert-Butyl Alcohol	8.974	8.938	0.722		0m	N.D.	d	
90) Acrylonitrile	9.175	9.164	0.738		0m	N.D.	d	
91) Isopropyl ether	10.006	10.077	0.805		0m	N.D.	d	
92) 2-Chloro-1,3-butadiene	10.112	10.124	0.814		0m	N.D.	d	
93) Ethyl tert-butyl ether	10.610	10.634	0.854		0m	N.D.	d	
94) Ethyl acetate	10.824	10.919	0.871		0m	N.D.	d	
95) Propionitrile	10.824	10.907	0.871		0m	N.D.	d	
96) Methacrylonitrile	11.144	11.144	0.897		0m	N.D.	d	
97) Tetrahydrofuran	11.286	11.275	0.908		0m	N.D.	d	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\020910V2.b\
Data File : 2Y203ICV.D
Acq On : 9 Feb 2010 7:37 am
Operator : CDS1
InstName : VOA2
Sample : |W2VM100209-02|ICV|1|VOAF|1|VOA8260BL|
Misc : ICV 5ML MIX[A] 0126-01C/0206-01
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 09 08:02:51 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
98) Isobutyl alcohol	11.974	11.856	0.964		0m	N.D.	d
99) Methyl tert-amyl ether	12.235	12.211	0.985		0m	N.D.	d
100) Methyl methacrylate	13.172	13.243	1.060		0m	N.D.	d
101) 1,4-Dioxane	13.314	13.314	1.072		0m	N.D.	d
102) 2-Nitropropane	13.788	13.729	1.110		0m	N.D.	d
104) Ethyl methacrylate	14.666	14.678	0.918		0m	N.D.	d
106) 1-Chlorohexane	15.970	15.911	0.865		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	17.038	17.073	0.923		0m	N.D.	d
108) Cyclohexanone	17.156	17.156	0.929		0m	N.D.	d
109) trans-1,4-Dichloro-2-b...	17.358	17.370	0.940		0m	N.D.	d
110) Pentachloroethane	18.069	18.058	0.979		0m	N.D.	d
111) Benzyl chloride	18.603	18.603	1.008		0m	N.D.	d
112) bis(2-Chloroisopropyl)...	19.018	19.018	1.030		0m	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Continuing Calibration Summary

Client SDG: 10-1620

Instrument ID: VOA2.I

Injection Date 12-FEB-10 18:49

Data File: 021210V2.b\2Y526.D

Init. Cal. Date(s) 08-FEB-10 17:51 - 09-FEB-10 02:32

Lab Sample ID W2VM100212-05 Quant Type ISTD

Method: 020810V2.b\VOA2-8260-020810.M

Compound	AVERF / Amount	RF CCV	Nominal CCV	Min RF	RF Q	%D / %Drift	Max	Drift Q	Curve Type	
S1,2-Dichloroethane-d4	0.4698	0.46697		.01		-0.60238	30		Averaged	
SToluene-d8	1.3368	1.31137		.01		-1.9023	30		Averaged	
SBromofluorobenzene	1.0731	1.06711		.01		-0.5582	30		Averaged	
Dichlorodifluoromethane	0.247	0.20281		.01		-17.89069	30		Averaged	
Chloromethane	0.2938	0.2634		.1		-10.34717	30		Averaged	spcc
Vinyl chloride	0.2682	0.2418		.01		-9.8434	20		Averaged	ccc
Bromomethane	50	54.41	50			8.82	30		Linear	
Chloroethane	0.18	0.16415		.01		-8.80556	30		Averaged	
Trichlorofluoromethane	0.4749	0.45946		.01		-3.25121	30		Averaged	
Ethyl ether	0.2175	0.20289		.01		-6.71724	30		Averaged	
1,1-Dichloroethylene	0.4725	0.4943		.01		4.61376	20		Averaged	ccc
Acetone	0.2011	0.2176		.01		8.20487	40		Averaged	
Iodomethane	0.3623	0.35168		.01		-2.93127	30		Averaged	
Carbon disulfide	0.6808	0.69094		.01		1.48942	30		Averaged	
Acetonitrile	0.036	0.03246		.01		-9.83333	30		Averaged	
Methyl acetate	0.2194	0.22087		.01		0.67001	40		Averaged	
Methylene chloride	0.2541	0.2246		.01		-11.6096	30		Averaged	
trans-1,2-Dichloroethylene	0.426	0.43626		.01		2.40845	30		Averaged	
tert-Butyl methyl ether	0.7088	0.67692		.01		-4.49774	30		Averaged	
1,1-Dichloroethane	0.4888	0.4866		.1		-0.45008	30		Averaged	spcc
Vinyl acetate	0.4606	0.51324		.01		11.42857	40		Averaged	
2-Butanone	0.1979	0.21484		.01		8.55988	40		Averaged	
cis-1,2-Dichloroethylene	0.4766	0.48467		.01		1.69324	30		Averaged	
2,2-Dichloropropane	0.3949	0.43384		.01		9.86072	30		Averaged	
Bromochloromethane	0.119	0.11197		.01		-5.90756	30		Averaged	
Chloroform	0.5163	0.51114		.01		-0.99942	20		Averaged	ccc
1,1,1-Trichloroethane	0.4971	0.52711		.01		6.03701	30		Averaged	
Cyclohexane	0.468	0.49859		.01		6.53632	30		Averaged	
1,1-Dichloropropene	0.3311	0.35511		.01		7.25159	30		Averaged	
Carbon tetrachloride	0.4591	0.50225		.01		9.39882	30		Averaged	
1,2-Dichloroethane	0.5151	0.50664		.01		-1.6424	30		Averaged	
Benzene	0.8228	0.80758		.01		-1.84978	30		Averaged	
Cyclohexene	0.441	0.47414		.01		7.51474	30		Averaged	
n-Butyl alcohol	5000	4612.58	5000			-7.7484	40		Linear	
Trichloroethylene	0.2602	0.26043		.01		0.08839	30		Averaged	
1,2-Dichloropropane	0.2402	0.23726		.01		-1.22398	20		Averaged	ccc
Methylcyclohexane	0.3752	0.39805		.01		6.09009	30		Averaged	

Continuing Calibration Summary

Page 2 of 3

Instrument ID: VOA2.I

Injection Date 12-FEB-10 18:49

Data File: 021210V2.b\2Y526.D

Init. Cal. Date(s) 08-FEB-10 17:51

09-FEB-10 02:32

Lab Sample ID W2VM100212-05

Quant Type ISTD

Method:020810V2.b\VOA2-8260-020810.M

Compound	AVERF / Amount	RF CCV	Nominal CCV	Min RF	RF Q	%D / %Drift	Max	Drift Q	Curve Type	
Dibromomethane	0.1596	0.15433		.01		-3.30201	30		Averaged	
Bromodichloromethane	0.3773	0.39781		.01		5.43599	30		Averaged	
2-Chloroethylvinyl ether	0.1522	0.15127		.01		-0.61104	30		Averaged	
cis-1,3-Dichloropropylene	0.3587	0.39362		.01		9.73515	30		Averaged	
4-Methyl-2-pentanone	0.1329	0.14191		.01		6.77953	40		Averaged	
Toluene	1.2113	1.20635		.01		-0.40865	20		Averaged	ccc
trans-1,3-Dichloropropylene	0.4795	0.53475		.01		11.52242	30		Averaged	
1,1,2-Trichloroethane	0.2137	0.20718		.01		-3.05101	30		Averaged	
1,3-Dichloropropane	0.4626	0.44939		.01		-2.8556	30		Averaged	
Tetrachloroethylene	0.2479	0.25042		.01		1.01654	30		Averaged	
2-Hexanone	0.3633	0.42875		.01		18.01541	40		Averaged	
Dibromochloromethane	0.3466	0.37084		.01		6.99365	30		Averaged	
1,2-Dibromoethane	0.2871	0.28645		.01		-0.2264	30		Averaged	
Chlorobenzene	0.8248	0.80784		.3		-2.05626	30		Averaged	spcc
1,1,1,2-Tetrachloroethane	0.3362	0.34085		.01		1.38311	30		Averaged	
Ethylbenzene	1.5242	1.58457		.01		3.96077	20		Averaged	ccc
m,p-Xylenes	0.5489	0.5588		.01		1.80361	30		Averaged	
o-Xylene	0.542	0.5443		.01		0.42435	30		Averaged	
Styrene	0.8495	0.9072		.01		6.79223	30		Averaged	
Bromoform	0.3877	0.43029		.1		10.9853	30		Averaged	spcc
Isopropylbenzene	2.5775	2.81954		.01		9.39049	30		Averaged	
1,1,2,2-Tetrachloroethane	0.6043	0.59377		.3		-1.74251	30		Averaged	spcc
1,2,3-Trichloropropane	0.2166	0.20752		.01		-4.19206	30		Averaged	
Bromobenzene	0.6382	0.61871		.01		-3.0539	30		Averaged	
n-Propylbenzene	3.1069	3.37653		.01		8.67843	30		Averaged	
2-Chlorotoluene	0.5859	0.59619		.01		1.75627	30		Averaged	
1,3,5-Trimethylbenzene	2.2987	2.45699		.01		6.88607	30		Averaged	
4-Chlorotoluene	2.0741	2.17369		.01		4.8016	30		Averaged	
tert-Butylbenzene	0.4207	0.44736		.01		6.33706	30		Averaged	
1,2,4-Trimethylbenzene	2.3535	2.52008		.01		7.07797	30		Averaged	
sec-Butylbenzene	2.8703	3.14391		.01		9.53245	30		Averaged	
4-Isopropyltoluene	2.3026	2.55181		.01		10.82298	30		Averaged	
1,3-Dichlorobenzene	1.2553	1.24822		.01		-0.56401	30		Averaged	
1,4-Dichlorobenzene	1.282	1.25471		.01		-2.12871	30		Averaged	
n-Butylbenzene	2.2652	2.60995		.01		15.21941	30		Averaged	
1,2-Dichlorobenzene	1.2243	1.19033		.01		-2.77465	30		Averaged	
1,2-Dibromo-3-chloropropane	50	44.61	50			-10.78	30		Linear	

Continuing Calibration Summary

Page 3 of 3

Instrument ID: VOA2.I

Injection Date 12-FEB-10 18:49

Data File: 021210V2.b\2Y526.D

Init. Cal. Date(s) 08-FEB-10 17:51 09-FEB-10 02:32

Lab Sample ID W2VM100212-05 Quant Type ISTD

Method:020810V2.b\VOA2-8260-020810.M

Compound	AVERF / Amount	RF CCV	Nominal CCV	Min RF	RF Q	%D / %Drift	Max	Drift Q	Curve Type
1,2,4-Trichlorobenzene	0.8015	0.8444		.01		5.35246	30		Averaged
Hexachlorobutadiene	0.535	0.58083		.01		8.56636	30		Averaged
Naphthalene	2.0353	2.05288		.01		0.86375	30		Averaged
1,2,3-Trichlorobenzene	0.7671	0.76589		.01		-0.15774	30		Averaged

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y526.D
Acq On : 12 Feb 2010 6:49 pm
Operator : CDS1
InstName : VOA2
Sample : |W2VM100212-05|CCV|1|VOAF|1|
Misc : CCV 5ML - MIX[A]0106-02C+0201-02B
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 15 07:16:45 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev(Min)
1) Fluorobenzene	12.425	12.437	1.000	96	1359854	50.00	ug/L	-0.01
41) Chlorobenzene-d5	15.970	15.970	1.000	117	1055246	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	612249	50.00	ug/L	0.00
82) B Fluorobenzene	12.425	12.437	1.000	96	1359773	50.00	ug/L	-0.01
103) B Chlorobenzene-d5	15.970	15.971	1.000	117	1055246	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	612372	50.00	ug/L	0.00
System Monitoring Compounds								Dev(Min)
29) 1,2-Dichloroethane-d4	11.974	11.986	0.964	65	635017	49.70	ug/L	-0.01
43) Toluene-d8	14.346	14.346	0.898	98	1383817	49.05	ug/L	0.00
61) Bromofluorobenzene	17.216	17.227	0.933	95	653336	49.72	ug/L	-0.01
Target Compounds								QValue
2) Dichlorodifluoromethane	4.687	4.702	0.377	85	275794	41.06	ug/L	100
3) Chloromethane	4.999	4.999	0.402	50	358187	44.83	ug/L	100
4) Vinyl chloride	5.251	5.266	0.423	62	328814	45.07	ug/L	100
5) Bromomethane	5.980	5.980	0.481	94	161609	54.41	ug/L	96
6) Chloroethane	6.223	6.223	0.501	64	223225	45.60	ug/L	100
7) Trichlorofluoromethane	6.839	6.839	0.550	101	624793	48.37	ug/L	100
8) Ethyl ether	7.397	7.409	0.595	59	275894	46.64	ug/L	97
9) Acetone	7.918	7.930	0.637	43	1479541	270.50	ug/L	98
10) 1,1-Dichloroethylene	7.871	7.883	0.633	61	672177	52.31	ug/L	99
11) Iodomethane	8.156	8.167	0.656	142	2391149	242.70	ug/L	96
12) Acetonitrile	8.440	8.452	0.679	41	1103363	1128.38	ug/L	100
13) Methyl acetate	8.559	8.571	0.689	43	1501735	251.70	ug/L	99
14) Carbon disulfide	8.310	8.322	0.669	76	4697919	253.72	ug/L	100
15) Methylene chloride	8.760	8.772	0.705	84	305417	44.20	ug/L	95
16) tert-Butyl methyl ether	9.270	9.282	0.746	73	920516	47.75	ug/L	99
17) trans-1,2-Dichloroethy...	9.258	9.270	0.745	61	593244	51.20	ug/L	97
18) Vinyl acetate	10.006	10.017	0.805	43	3489689	278.55	ug/L	99
19) 1,1-Dichloroethane	9.946	9.958	0.801	63	661701	49.77	ug/L	100
20) 2-Butanone	10.824	10.836	0.871	43	1460766	271.44	ug/L	98
21) cis-1,2-Dichloroethylene	10.848	10.848	0.873	61	659083	50.85	ug/L	97
22) 2,2-Dichloropropane	10.871	10.871	0.875	77	589963	54.93	ug/L	97
23) Bromochloromethane	11.191	11.203	0.901	128	152259	47.04	ug/L	93
24) Chloroform	11.286	11.298	0.908	83	695077	49.50	ug/L	100
25) 1,1,1-Trichloroethane	11.595	11.606	0.933	97	716789	53.02	ug/L	99
26) Cyclohexane	11.701	11.713	0.942	56	678009	53.27	ug/L	99
27) 1,1-Dichloropropene	11.808	11.820	0.950	75	482897	53.62	ug/L	96
28) Carbon tetrachloride	11.832	11.844	0.952	117	682980	54.70	ug/L	99
30) 1,2-Dichloroethane	12.081	12.093	0.972	62	688958	49.17	ug/L	100
31) Benzene	12.093	12.093	0.973	78	1098194	49.08	ug/L	98
32) Cyclohexene	12.235	12.247	0.985	67	644762	53.75	ug/L	98
33) n-Butyl alcohol	12.686	12.697	1.021	56	1146838	4612.58	ug/L	97
34) Trichloroethylene	12.899	12.899	1.038	95	354145	50.04	ug/L	99
35) 1,2-Dichloropropane	13.172	13.172	1.060	63	322635	49.38	ug/L	99
36) Methylcyclohexane	13.172	13.184	1.060	83	541287	53.04	ug/L	97
37) Dibromomethane	13.314	13.314	1.072	93	209870	48.34	ug/L	99
38) Bromodichloromethane	13.480	13.480	1.085	83	540966	52.71	ug/L	100
39) 2-Chloroethylvinyl ether	13.788	13.800	1.110	63	1028515	248.54	ug/L	99
40) cis-1,3-Dichloropropylene	14.002	14.002	1.127	75	535268	54.87	ug/L	97

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y526.D
Acq On : 12 Feb 2010 6:49 pm
Operator : CDS1
InstName : VOA2
Sample : |W2VM100212-05|CCV|1|VOAF|1|
Misc : CCV 5ML - MIX[A]0106-02C+0201-02B
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 15 07:16:45 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
42) 4-Methyl-2-pentanone	14.144	14.144	0.886	58	748729	267.03	ug/L	95
44) Toluene	14.417	14.429	0.903	91	1272993	49.79	ug/L	99
45) trans-1,3-Dichloroprop...	14.619	14.618	0.915	75	564295	55.76	ug/L	95
46) 1,1,2-Trichloroethane	14.844	14.844	0.929	83	218627	48.47	ug/L	99
47) 2-Hexanone	15.069	15.069	0.944	43	2262174	295.01	ug/L	98
48) 1,3-Dichloropropane	15.034	15.045	0.941	76	474216	48.57	ug/L	90
49) Tetrachloroethylene	15.069	15.069	0.944	164	264257	50.51	ug/L	98
50) Dibromochloromethane	15.318	15.318	0.959	129	391325	53.49	ug/L	99
51) 1,2-Dibromoethane	15.472	15.472	0.969	107	302279	49.89	ug/L	100
52) Chlorobenzene	16.006	16.006	1.002	112	852472	48.97	ug/L	99
53) 1,1,1,2-Tetrachloroethane	16.077	16.077	1.007	131	359685	50.70	ug/L	99
54) Ethylbenzene	16.089	16.101	1.007	91	1672112	51.98	ug/L	99
55) m,p-Xylenes	16.219	16.219	1.016	106	1179346	101.81	ug/L	97
56) o-Xylene	16.658	16.658	1.043	106	574371	50.22	ug/L	97
57) Styrene	16.658	16.658	1.043	104	957318	53.39	ug/L	96
59) Bromoform	16.895	16.895	0.915	173	263446	55.49	ug/L	98
60) Isopropylbenzene	17.038	17.038	0.923	105	1726261	54.70	ug/L	100
62) 1,1,2,2-Tetrachloroethane	17.310	17.310	0.938	83	363535	49.13	ug/L	99
63) 1,2,3-Trichloropropane	17.393	17.393	0.942	110	127052	47.91	ug/L	97
64) Bromobenzene	17.429	17.429	0.944	156	378802	48.47	ug/L	98
65) n-Propylbenzene	17.476	17.476	0.947	91	2067278	54.34	ug/L	100
66) 1,3,5-Trimethylbenzene	17.642	17.642	0.956	105	1504292	53.44	ug/L	99
67) 2-Chlorotoluene	17.607	17.607	0.954	126	365019	50.88	ug/L	97
68) 4-Chlorotoluene	17.714	17.714	0.960	91	1330837	52.40	ug/L	99
69) tert-Butylbenzene	18.010	18.010	0.976	134	273896	53.17	ug/L	96
70) 1,2,4-Trimethylbenzene	18.057	18.057	0.978	105	1542916	53.54	ug/L	100
71) sec-Butylbenzene	18.235	18.235	0.988	105	1924857	54.77	ug/L	100
72) 4-Isopropyltoluene	18.366	18.366	0.995	119	1562342	55.41	ug/L	99
73) 1,3-Dichlorobenzene	18.401	18.401	0.997	146	764219	49.72	ug/L	99
74) 1,4-Dichlorobenzene	18.496	18.496	1.002	146	768196	48.94	ug/L	100
75) n-Butylbenzene	18.805	18.805	1.019	91	1597942	57.61	ug/L	100
76) 1,2-Dichlorobenzene	18.899	18.899	1.024	146	728780	48.61	ug/L	99
77) 1,2-Dibromo-3-chloropr...	19.718	19.718	1.068	157	86506	44.61	ug/L	96
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	516980	52.68	ug/L	99
79) Hexachlorobutadiene	20.868	20.868	1.130	225	355614	54.28	ug/L	100
80) Naphthalene	21.022	21.022	1.139	128	1256876	50.43	ug/L	100
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156	180	468918	49.92	ug/L	99
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.		
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.		
85) Acrolein	7.586	7.646	0.611		0m	N.D.	d	
86) Trichlorotrifluoroethane	7.907	7.930	0.636		0m	N.D.	d	
87) Isopropyl Alcohol	8.310	8.191	0.669		0m	N.D.	d	
88) Allyl chloride	0.000	8.559	0.000		0	N.D.		
89) tert-Butyl Alcohol	8.962	8.938	0.721		0m	N.D.	d	
90) Acrylonitrile	9.270	9.164	0.746		0m	N.D.	d	
91) Isopropyl ether	10.006	10.077	0.805		0m	N.D.	d	
92) 2-Chloro-1,3-butadiene	10.207	10.124	0.822		0m	N.D.	d	
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.		
94) Ethyl acetate	10.824	10.919	0.871		0m	N.D.	d	
95) Propionitrile	10.824	10.907	0.871		0m	N.D.	d	
96) Methacrylonitrile	11.144	11.144	0.897		0m	N.D.	d	
97) Tetrahydrofuran	11.286	11.275	0.908		0m	N.D.	d	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y526.D
Acq On : 12 Feb 2010 6:49 pm
Operator : CDS1
InstName : VOA2
Sample : |W2VM100212-05|CCV|1|VOAF|1|
Misc : CCV 5ML - MIX[A]0106-02C+0201-02B
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 15 07:16:45 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
98) Isobutyl alcohol	11.974	11.856	0.964		0m	N.D.	d
99) Methyl tert-amyl ether	12.235	12.211	0.985		0m	N.D.	d
100) Methyl methacrylate	13.172	13.243	1.060		0m	N.D.	d
101) 1,4-Dioxane	13.314	13.314	1.072		0m	N.D.	d
102) 2-Nitropropane	13.788	13.729	1.110		0m	N.D.	d
104) Ethyl methacrylate	14.678	14.678	0.919		0m	N.D.	d
106) 1-Chlorohexane	15.970	15.911	0.865		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	17.038	17.073	0.923		0m	N.D.	d
108) Cyclohexanone	17.168	17.156	0.930		0m	N.D.	d
109) trans-1,4-Dichloro-2-b...	17.370	17.370	0.941		0m	N.D.	d
110) Pentachloroethane	18.069	18.058	0.979		0m	N.D.	d
111) Benzyl chloride	18.603	18.603	1.008		0m	N.D.	d
112) bis(2-Chloroisopropyl)...	19.018	19.018	1.030		0m	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

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Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y526.D
Acq On    : 12 Feb 2010    6:49 pm
Operator  : CDS1
InstName  : VOA2
Sample    : |W2VM100212-05|CCV|1|VOAF|1|
Misc      : CCV 5ML - MIX[A]0106-02C+0201-02B
ALS Vial  : 26    Sample Multiplier: 1
```

[illegible]

Continuing Calibration Summary

Client SDG: 10-1620

Instrument ID: VOA2.I

Injection Date 12-FEB-10 19:47

Data File: 021210V2.b\2Y528.D

Init. Cal. Date(s) 08-FEB-10 17:51 - 09-FEB-10 02:32

Lab Sample ID W2VM100212-07 Quant Type ISTD

Method: 020810V2.b\VOA2-8260-020810.M

Compound	AVERF / Amount	RF CCV	Nominal CCV	Min RF	RF Q	%D / %Drift	Max	Drift Q	Curve Type
S1,2-Dichloroethane-d4	0.4698	0.45408		.01		-3.3461	30		Averaged
SToluene-d8	1.3368	1.2951		.01		-3.11939	30		Averaged
SBromofluorobenzene	1.0731	1.06452		.01		-0.79955	30		Averaged
Acrolein	0.0348	0.02994		.01		-13.96552	30		Averaged
Trichlorotrifluoroethane	0.1096	0.09482		.01		-13.4854	30		Averaged
Allyl chloride	0.4434	0.38554		.01		-13.04917	30		Averaged
Acrylonitrile	0.0929	0.08134		.01		-12.44349	30		Averaged
2-Chloro-1,3-butadiene	0.4613	0.43251		.01		-6.24106	30		Averaged
Propionitrile	0.0365	0.03188		.01		-12.65753	30		Averaged
Ethyl acetate	0.2581	0.22271		.01		-13.71174	40		Averaged
Methacrylonitrile	0.1634	0.14718		.01		-9.92656	30		Averaged
Tetrahydrofuran	0.0788	0.07278		.01		-7.63959	30		Averaged
Isobutyl alcohol	0.0103	0.00972		.01		-5.63107	40		Averaged
Methyl methacrylate	0.1308	0.11981		.01		-8.40214	30		Averaged
1,4-Dioxane	0.0024	0.00218		.01		-9.16667	40		Averaged
2-Nitropropane	250	229.12	250			-8.352	30		Linear
Ethyl methacrylate	0.3405	0.32435		.01		-4.74302	30		Averaged
cis-1,4-Dichloro-2-butene	0.2659	0.30615		.01		15.13727	30		Averaged
Cyclohexanone	0.0895	0.02615		.01		-70.78212	40	*	Averaged
trans-1,4-Dichloro-2-butene	0.2626	0.29403		.01		11.96877	30		Averaged
Pentachloroethane	0.1777	0.17972		.01		1.13675	30		Averaged
Benzyl chloride	0.8028	1.2116		.01		50.92177	30	*	Averaged
bis(2-Chloroisopropyl)ether	0.4036	0.39717		.01		-1.59316	30		Averaged

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y528.D
Acq On : 12 Feb 2010 7:47 pm
Operator : CDS1
InstName : VOA2
Sample : |W2VM100212-07|CCV|1|VOAF|1|VOA8260BS|
Misc : CCV 5G - SOIL MIX[B] 0118-08B
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 15 07:37:13 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev(Min)
1) Fluorobenzene	12.425	12.437	1.000	96	1491551	50.00	ug/L	-0.01
41) Chlorobenzene-d5	15.971	15.970	1.000	117	1123786	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	651622	50.00	ug/L	0.00
82) B Fluorobenzene	12.425	12.437	1.000	96	1491271	50.00	ug/L	-0.01
103) B Chlorobenzene-d5	15.971	15.971	1.000	117	1123786	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	651820	50.00	ug/L	0.00
System Monitoring Compounds								Dev(Min)
29) 1,2-Dichloroethane-d4	11.974	11.986	0.964	65	677283	48.33	ug/L	-0.01
43) Toluene-d8	14.346	14.346	0.898	98	1455416	48.44	ug/L	0.00
61) Bromofluorobenzene	17.216	17.227	0.933	95	693667	49.60	ug/L	-0.01
Target Compounds								QValue
2) Dichlorodifluoromethane	4.687	4.702	0.377		0m	N.D.	d	
3) Chloromethane	4.984	4.999	0.401		0m	N.D.	d	
4) Vinyl chloride	5.237	5.266	0.421		0m	N.D.	d	
5) Bromomethane	5.980	5.980	0.481		0m	N.D.	d	
6) Chloroethane	6.211	6.223	0.500		0m	N.D.	d	
7) Trichlorofluoromethane	6.816	6.839	0.549		0m	N.D.	d	
8) Ethyl ether	7.409	7.409	0.596		0m	N.D.	d	
9) Acetone	7.907	7.930	0.636		0m	N.D.	d	
10) 1,1-Dichloroethylene	7.871	7.883	0.634		0m	N.D.	d	
11) Iodomethane	8.156	8.167	0.656		0m	N.D.	d	
12) Acetonitrile	8.547	8.452	0.688		0m	N.D.	d	
13) Methyl acetate	8.571	8.571	0.690		0m	N.D.	d	
14) Carbon disulfide	8.298	8.322	0.668		0m	N.D.	d	
15) Methylene chloride	8.761	8.772	0.705		0m	N.D.	d	
16) tert-Butyl methyl ether	9.270	9.282	0.746		0m	N.D.	d	
17) trans-1,2-Dichloroethy...	9.259	9.270	0.745		0m	N.D.	d	
18) Vinyl acetate	10.006	10.017	0.805		0m	N.D.	d	
19) 1,1-Dichloroethane	9.946	9.958	0.801		0m	N.D.	d	
20) 2-Butanone	10.907	10.836	0.878		0m	N.D.	d	
21) cis-1,2-Dichloroethylene	10.836	10.848	0.872		0m	N.D.	d	
22) 2,2-Dichloropropane	10.860	10.871	0.874		0m	N.D.	d	
23) Bromochloromethane	11.192	11.203	0.901		0m	N.D.	d	
24) Chloroform	11.286	11.298	0.908		0m	N.D.	d	
25) 1,1,1-Trichloroethane	11.595	11.606	0.933		0m	N.D.	d	
26) Cyclohexane	11.690	11.713	0.941		0m	N.D.	d	
27) 1,1-Dichloropropene	11.808	11.820	0.950		0m	N.D.	d	
28) Carbon tetrachloride	11.832	11.844	0.952		0m	N.D.	d	
30) 1,2-Dichloroethane	12.081	12.093	0.972		0m	N.D.	d	
31) Benzene	12.081	12.093	0.972		0m	N.D.	d	
32) Cyclohexene	12.235	12.247	0.985		0m	N.D.	d	
33) n-Butyl alcohol	12.698	12.697	1.022		0m	N.D.	d	
34) Trichloroethylene	12.899	12.899	1.038		0m	N.D.	d	
35) 1,2-Dichloropropane	13.172	13.172	1.060		0m	N.D.	d	
36) Methylcyclohexane	13.172	13.184	1.060		0m	N.D.	d	
37) Dibromomethane	13.314	13.314	1.072		0m	N.D.	d	
38) Bromodichloromethane	13.480	13.480	1.085		0m	N.D.	d	
39) 2-Chloroethylvinyl ether	13.789	13.800	1.110		0m	N.D.	d	
40) cis-1,3-Dichloropropylene	14.002	14.002	1.127		0m	N.D.	d	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y528.D
Acq On : 12 Feb 2010 7:47 pm
Operator : CDS1
InstName : VOA2
Sample : |W2VM100212-07|CCV|1|VOAF|1|VOA8260BS|
Misc : CCV 5G - SOIL MIX[B] 0118-08B
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 15 07:37:13 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
42) 4-Methyl-2-pentanone	14.144	14.144	0.886		0m	N.D.	d
44) Toluene	14.417	14.429	0.903		0m	N.D.	d
45) trans-1,3-Dichloroprop...	14.619	14.618	0.915		0m	N.D.	d
46) 1,1,2-Trichloroethane	14.844	14.844	0.929		0m	N.D.	d
47) 2-Hexanone	15.069	15.069	0.944		0m	N.D.	d
48) 1,3-Dichloropropane	15.034	15.045	0.941		0m	N.D.	d
49) Tetrachloroethylene	15.057	15.069	0.943		0m	N.D.	d
50) Dibromochloromethane	15.318	15.318	0.959		0m	N.D.	d
51) 1,2-Dibromoethane	15.472	15.472	0.969		0m	N.D.	d
52) Chlorobenzene	16.006	16.006	1.002		0m	N.D.	d
53) 1,1,1,2-Tetrachloroethane	16.065	16.077	1.006		0m	N.D.	d
54) Ethylbenzene	16.089	16.101	1.007		0m	N.D.	d
55) m,p-Xylenes	16.220	16.219	1.016		0m	N.D.	d
56) o-Xylene	16.658	16.658	1.043		0m	N.D.	d
57) Styrene	16.658	16.658	1.043		0m	N.D.	d
59) Bromoform	16.895	16.895	0.915		0m	N.D.	d
60) Isopropylbenzene	17.038	17.038	0.923		0m	N.D.	d
62) 1,1,2,2-Tetrachloroethane	17.311	17.310	0.938		0m	N.D.	d
63) 1,2,3-Trichloropropane	17.394	17.393	0.942		0m	N.D.	d
64) Bromobenzene	17.429	17.429	0.944		0m	N.D.	d
65) n-Propylbenzene	17.477	17.476	0.947		0m	N.D.	d
66) 1,3,5-Trimethylbenzene	17.643	17.642	0.956		0m	N.D.	d
67) 2-Chlorotoluene	17.714	17.607	0.960		0m	N.D.	d
68) 4-Chlorotoluene	17.714	17.714	0.960		0m	N.D.	d
69) tert-Butylbenzene	18.058	18.010	0.978		0m	N.D.	d
70) 1,2,4-Trimethylbenzene	18.058	18.057	0.978		0m	N.D.	d
71) sec-Butylbenzene	18.235	18.235	0.988		0m	N.D.	d
72) 4-Isopropyltoluene	18.366	18.366	0.995		0m	N.D.	d
73) 1,3-Dichlorobenzene	18.402	18.401	0.997		0m	N.D.	d
74) 1,4-Dichlorobenzene	18.496	18.496	1.002		0m	N.D.	d
75) n-Butylbenzene	18.805	18.805	1.019		0m	N.D.	d
76) 1,2-Dichlorobenzene	18.900	18.899	1.024		0m	N.D.	d
77) 1,2-Dibromo-3-chloropr...	19.706	19.718	1.067		0m	N.D.	d
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121		0m	N.D.	d
79) Hexachlorobutadiene	20.868	20.868	1.130		0m	N.D.	d
80) Naphthalene	21.022	21.022	1.139		0m	N.D.	d
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156		0m	N.D.	d
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.	
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.	
85) Acrolein	7.622	7.646	0.613	56	223265	214.96 ug/L	97
86) Trichlorotrifluoroethane	7.907	7.930	0.636	85	707026	216.19 ug/L	98
87) Isopropyl Alcohol	8.203	8.191	0.660	45	17238	N.D.	
88) Allyl chloride	8.547	8.559	0.688	41	2874692	217.35 ug/L	99
89) tert-Butyl Alcohol	8.927	8.938	0.718	59	798	N.D.	
90) Acrylonitrile	9.152	9.164	0.737	53	606484	218.91 ug/L	99
91) Isopropyl ether	10.065	10.077	0.810	45	542	N.D.	
92) 2-Chloro-1,3-butadiene	10.101	10.124	0.813	53	644995	46.88 ug/L	94
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.	
94) Ethyl acetate	10.907	10.919	0.878	43	1660608	215.70 ug/L	99
95) Propionitrile	10.895	10.907	0.877	54	237720	218.31 ug/L	100
96) Methacrylonitrile	11.132	11.144	0.896	41	1097399	225.22 ug/L	99
97) Tetrahydrofuran	11.263	11.275	0.906	42	542682	230.88 ug/L	98

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y528.D
Acq On : 12 Feb 2010 7:47 pm
Operator : CDS1
InstName : VOA2
Sample : |W2VM100212-07|CCV|1|VOAF|1|VOA8260BS|
Misc : CCV 5G - SOIL MIX[B] 0118-08B
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 15 07:37:13 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

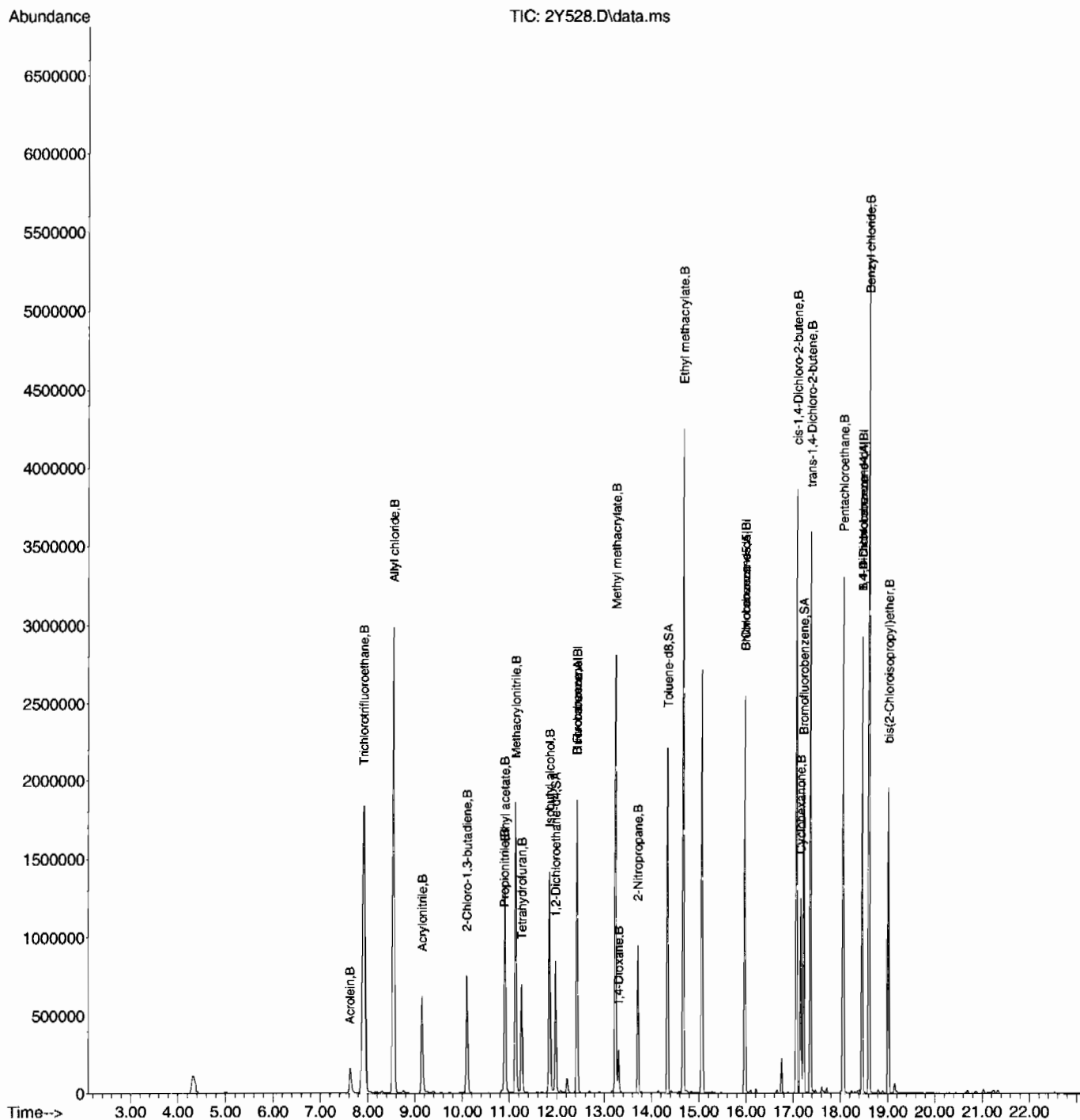
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
98) Isobutyl alcohol	11.844	11.856	0.953	41	724738	2363.45	ug/L	98
99) Methyl tert-amyl ether	12.211	12.211	0.983	73	592	N.D.		
100) Methyl methacrylate	13.243	13.243	1.066	69	893333	228.96	ug/L	96
101) 1,4-Dioxane	13.302	13.314	1.071	88	162378	2275.24	ug/L	98
102) 2-Nitropropane	13.717	13.729	1.104	43	693752	229.12	ug/L	99
104) Ethyl methacrylate	14.666	14.678	0.918	69	1822524	238.12	ug/L	97
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d	
107) cis-1,4-Dichloro-2-butene	17.073	17.073	0.925	53	997759	287.83	ug/L	100
108) Cyclohexanone	17.156	17.156	0.929	42	426117	365.42	ug/L	96
109) trans-1,4-Dichloro-2-b...	17.370	17.370	0.941	53	958257	279.90	ug/L	98
110) Pentachloroethane	18.058	18.058	0.978	167	585732	252.81	ug/L	99
111) Benzyl chloride	18.603	18.603	1.008	91	3948717	377.28	ug/L	99
112) bis(2-Chloroisopropyl)...	19.018	19.018	1.030	45	1294405	245.99	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y528.D
Acq On : 12 Feb 2010 7:47 pm
Operator : CDS1
InstName : VOA2
Sample : |W2VM100212-07|CCV|1|VOAF|1|VOA8260BS|
Misc : CCV 5G - SOIL MIX[B] 0118-08B
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 15 07:37:13 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE



Continuing Calibration Summary

Client SDG: 10-1620

Instrument ID: VOA2.I

Injection Date 15-FEB-10 07:09

Data File: 021510V2.b\2Z102.D

Init. Cal. Date(s) 08-FEB-10 17:51 - 09-FEB-10 02:32

Lab Sample ID W2VM100215-01 Quant Type ISTD

Method: 020810V2.b\VOA2-8260-020810.M

Compound	AVERF / Amount	RF CCV	Nominal CCV	Min RF	RF Q	%D / %Drift	Max	Drift Q	Curve Type	
S1,2-Dichloroethane-d4	0.4698	0.53153		.01		13.13963	30		Averaged	
SToluene-d8	1.3368	1.37269		.01		2.68477	30		Averaged	
SBromofluorobenzene	1.0731	1.07598		.01		0.26838	30		Averaged	
Dichlorodifluoromethane	0.247	0.20252		.01		-18.0081	30		Averaged	
Chloromethane	0.2938	0.27476		.1		-6.4806	30		Averaged	spcc
Vinyl chloride	0.2682	0.24564		.01		-8.41163	20		Averaged	ccc
Bromomethane	50	62.9	50			25.8	30		Linear	
Chloroethane	0.18	0.17548		.01		-2.51111	30		Averaged	
Trichlorofluoromethane	0.4749	0.50377		.01		6.07917	30		Averaged	
Ethyl ether	0.2175	0.20254		.01		-6.87816	30		Averaged	
1,1-Dichloroethylene	0.4725	0.52138		.01		10.34497	20		Averaged	ccc
Acetone	0.2011	0.23713		.01		17.91646	40		Averaged	
Iodomethane	0.3623	0.35456		.01		-2.13635	30		Averaged	
Carbon disulfide	0.6808	0.71706		.01		5.32609	30		Averaged	
Acetonitrile	0.036	0.03554		.01		-1.27778	30		Averaged	
Methyl acetate	0.2194	0.23713		.01		8.08113	40		Averaged	
Methylene chloride	0.2541	0.23813		.01		-6.28493	30		Averaged	
trans-1,2-Dichloroethylene	0.426	0.4509		.01		5.84507	30		Averaged	
tert-Butyl methyl ether	0.7088	0.68972		.01		-2.69187	30		Averaged	
1,1-Dichloroethane	0.4888	0.49888		.1		2.06219	30		Averaged	spcc
Vinyl acetate	0.4606	0.56824		.01		23.36952	40		Averaged	
2-Butanone	0.1979	0.23464		.01		18.56493	40		Averaged	
cis-1,2-Dichloroethylene	0.4766	0.5064		.01		6.25262	30		Averaged	
2,2-Dichloropropane	0.3949	0.47333		.01		19.86072	30		Averaged	
Bromochloromethane	0.119	0.11228		.01		-5.64706	30		Averaged	
Chloroform	0.5163	0.52273		.01		1.2454	20		Averaged	ccc
1,1,1-Trichloroethane	0.4971	0.56111		.01		12.87668	30		Averaged	
Cyclohexane	0.468	0.53343		.01		13.98077	30		Averaged	
1,1-Dichloropropene	0.3311	0.3663		.01		10.63123	30		Averaged	
Carbon tetrachloride	0.4591	0.53402		.01		16.31888	30		Averaged	
1,2-Dichloroethane	0.5151	0.52609		.01		2.13357	30		Averaged	
Benzene	0.8228	0.81466		.01		-0.9893	30		Averaged	
Cyclohexene	0.441	0.49408		.01		12.03628	30		Averaged	
n-Butyl alcohol	5000	4598.66	5000			-8.0268	40		Linear	
Trichloroethylene	0.2602	0.2716		.01		4.38125	30		Averaged	
1,2-Dichloropropane	0.2402	0.2419		.01		0.70774	20		Averaged	ccc
Methylcyclohexane	0.3752	0.41673		.01		11.06876	30		Averaged	

Continuing Calibration Summary

Page 2 of 3

Instrument ID: VOA2.I

Injection Date 15-FEB-10 07:09

Data File: 021510V2.b\2Z102.D

Init. Cal. Date(s) 08-FEB-10 17:51 09-FEB-10 02:32

Lab Sample ID W2VM100215-01 Quant Type ISTD

Method:020810V2.b\VOA2-8260-020810.M

Compound	AVERF / Amount	RF CCV	Nominal CCV	Min RF	RF Q	%D / %Drift	Max	Drift Q	Curve Type	
Dibromomethane	0.1596	0.16057		.01		0.60777	30		Averaged	
Bromodichloromethane	0.3773	0.41318		.01		9.50967	30		Averaged	
2-Chloroethylvinyl ether	0.1522	0.14791		.01		-2.81866	30		Averaged	
cis-1,3-Dichloropropylene	0.3587	0.40352		.01		12.49512	30		Averaged	
4-Methyl-2-pentanone	0.1329	0.1515		.01		13.99549	40		Averaged	
Toluene	1.2113	1.23877		.01		2.26781	20		Averaged	ccc
trans-1,3-Dichloropropylene	0.4795	0.55032		.01		14.76955	30		Averaged	
1,1,2-Trichloroethane	0.2137	0.20807		.01		-2.63453	30		Averaged	
1,3-Dichloropropane	0.4626	0.45019		.01		-2.68266	30		Averaged	
Tetrachloroethylene	0.2479	0.25339		.01		2.2146	30		Averaged	
2-Hexanone	0.3633	0.49086		.01		35.11148	40		Averaged	
Dibromochloromethane	0.3466	0.37812		.01		9.09406	30		Averaged	
1,2-Dibromoethane	0.2871	0.28418		.01		-1.01707	30		Averaged	
Chlorobenzene	0.8248	0.81228		.3		-1.51794	30		Averaged	spcc
1,1,1,2-Tetrachloroethane	0.3362	0.36146		.01		7.51338	30		Averaged	
Ethylbenzene	1.5242	1.61743		.01		6.11665	20		Averaged	ccc
m,p-Xylenes	0.5489	0.56834		.01		3.54163	30		Averaged	
o-Xylene	0.542	0.56121		.01		3.54428	30		Averaged	
Styrene	0.8495	0.91014		.01		7.13832	30		Averaged	
Bromoform	0.3877	0.40712		.1		5.00903	30		Averaged	spcc
Isopropylbenzene	2.5775	2.82058		.01		9.43084	30		Averaged	
1,1,2,2-Tetrachloroethane	0.6043	0.59739		.3		-1.14347	30		Averaged	spcc
1,2,3-Trichloropropane	0.2166	0.20135		.01		-7.04063	30		Averaged	
Bromobenzene	0.6382	0.59993		.01		-5.99655	30		Averaged	
n-Propylbenzene	3.1069	3.41426		.01		9.89282	30		Averaged	
2-Chlorotoluene	0.5859	0.60104		.01		2.58406	30		Averaged	
1,3,5-Trimethylbenzene	2.2987	2.52904		.01		10.02045	30		Averaged	
4-Chlorotoluene	2.0741	2.16804		.01		4.52919	30		Averaged	
tert-Butylbenzene	0.4207	0.45329		.01		7.74661	30		Averaged	
1,2,4-Trimethylbenzene	2.3535	2.61484		.01		11.10431	30		Averaged	
sec-Butylbenzene	2.8703	3.22053		.01		12.20186	30		Averaged	
4-Isopropyltoluene	2.3026	2.64447		.01		14.84713	30		Averaged	
1,3-Dichlorobenzene	1.2553	1.25116		.01		-0.3298	30		Averaged	
1,4-Dichlorobenzene	1.282	1.28184		.01		-0.01248	30		Averaged	
n-Butylbenzene	2.2652	2.75322		.01		21.54423	30		Averaged	
1,2-Dichlorobenzene	1.2243	1.21585		.01		-0.69019	30		Averaged	
1,2-Dibromo-3-chloropropane	50	44.51	50			-10.98	30		Linear	

Continuing Calibration Summary

Instrument ID: VOA2.I

Injection Date: 15-FEB-10 07:09

Data File: 021510V2.b\2Z102.D

Init. Cal. Date(s): 08-FEB-10 17:51 09-FEB-10 02:32

Lab Sample ID: W2VM100215-01 Quant Type: ISTD

Method: 020810V2.b\VOA2-8260-020810.M

Compound	AVERF / Amount	RF CCV	Nominal CCV	Min RF	RF Q	%D / %Drift	Max	Drift Q	Curve Type
1,2,4-Trichlorobenzene	0.8015	0.85748		.01		6.9844	30		Averaged
Hexachlorobutadiene	0.535	0.58418		.01		9.19252	30		Averaged
Naphthalene	2.0353	2.05395		.01		0.91633	30		Averaged
1,2,3-Trichlorobenzene	0.7671	0.76905		.01		0.2542	30		Averaged

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z102.D
Acq On : 15 Feb 2010 7:09 am
Operator : CDS1
InstName : VOA2
Sample : |W2VM100215-01|CCV|1|VOAF|1|
Misc : CCV 5ML - MIX[A]0106-02D+0201-02B
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 07:57:23 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev(Min)
1) Fluorobenzene	12.425	12.437	1.000	96	1182725	50.00	ug/L	-0.01
41) Chlorobenzene-d5	15.970	15.970	1.000	117	919052	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	554374	50.00	ug/L	0.00
82) B Fluorobenzene	12.425	12.437	1.000	96	1182683	50.00	ug/L	-0.01
103) B Chlorobenzene-d5	15.970	15.971	1.000	117	919052	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	554410	50.00	ug/L	0.00
System Monitoring Compounds								Dev(Min)
29) 1,2-Dichloroethane-d4	11.974	11.986	0.964	65	628648	56.57	ug/L	-0.01
43) Toluene-d8	14.334	14.346	0.898	98	1261570	51.34	ug/L	-0.01
61) Bromofluorobenzene	17.216	17.227	0.933	95	596495	50.14	ug/L	-0.01
Target Compounds								QValue
2) Dichlorodifluoromethane	4.687	4.702	0.377	85	239523	41.00	ug/L	99
3) Chloromethane	4.999	4.999	0.402	50	324966	46.76	ug/L	99
4) Vinyl chloride	5.251	5.266	0.423	62	290528	45.79	ug/L	100
5) Bromomethane	5.980	5.980	0.481	94	162015	62.90	ug/L	96
6) Chloroethane	6.211	6.223	0.500	64	207544	48.74	ug/L	99
7) Trichlorofluoromethane	6.827	6.839	0.550	101	595818	53.04	ug/L	99
8) Ethyl ether	7.385	7.409	0.594	59	239548	46.56	ug/L	91
9) Acetone	7.907	7.930	0.636	43	1402273	294.77	ug/L	95
10) 1,1-Dichloroethylene	7.859	7.883	0.633	61	616646	55.17	ug/L	98
11) Iodomethane	8.144	8.167	0.655	142	2096709	244.68	ug/L	92
12) Acetonitrile	8.428	8.452	0.678	41	1050804	1235.57	ug/L	100
13) Methyl acetate	8.547	8.571	0.688	43	1402310	270.23	ug/L	97
14) Carbon disulfide	8.298	8.322	0.668	76	4240434	263.31	ug/L	100
15) Methylene chloride	8.749	8.772	0.704	84	281648	46.87	ug/L	89
16) tert-Butyl methyl ether	9.258	9.282	0.745	73	815747	48.65	ug/L	99
17) trans-1,2-Dichloroethy...	9.247	9.270	0.744	61	533293	52.92	ug/L	96
18) Vinyl acetate	9.994	10.017	0.804	43	3360340	308.39	ug/L	97
19) 1,1-Dichloroethane	9.934	9.958	0.800	63	590039	51.03	ug/L	100
20) 2-Butanone	10.812	10.836	0.870	43	1387599	296.46	ug/L	95
21) cis-1,2-Dichloroethylene	10.836	10.848	0.872	61	598935	53.13	ug/L	95
22) 2,2-Dichloropropane	10.859	10.871	0.874	77	559819	59.93	ug/L	90
23) Bromochloromethane	11.180	11.203	0.900	128	132792	47.17	ug/L #	87
24) Chloroform	11.286	11.298	0.908	83	618247	50.62	ug/L	100
25) 1,1,1-Trichloroethane	11.583	11.606	0.932	97	663644	56.44	ug/L	98
26) Cyclohexane	11.689	11.713	0.941	56	630898	56.99	ug/L	97
27) 1,1-Dichloropropene	11.796	11.820	0.949	75	433229	55.31	ug/L	91
28) Carbon tetrachloride	11.820	11.844	0.951	117	631599	58.16	ug/L	100
30) 1,2-Dichloroethane	12.069	12.093	0.971	62	622216	51.06	ug/L	99
31) Benzene	12.081	12.093	0.972	78	963517	49.51	ug/L	95
32) Cyclohexene	12.223	12.247	0.984	67	584364	56.01	ug/L	96
33) n-Butyl alcohol	12.686	12.697	1.021	56	994343	4598.66	ug/L	93
34) Trichloroethylene	12.887	12.899	1.037	95	321229	52.19	ug/L	100
35) 1,2-Dichloropropane	13.160	13.172	1.059	63	286096	50.35	ug/L	99
36) Methylcyclohexane	13.172	13.184	1.060	83	492874	55.53	ug/L	96
37) Dibromomethane	13.314	13.314	1.072	93	189916	50.30	ug/L	96
38) Bromodichloromethane	13.480	13.480	1.085	83	488678	54.75	ug/L	100
39) 2-Chloroethylvinyl ether	13.788	13.800	1.110	63	874712	243.03	ug/L	99
40) cis-1,3-Dichloropropylene	14.002	14.002	1.127	75	477250	56.25	ug/L	93

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z102.D
Acq On : 15 Feb 2010 7:09 am
Operator : CDS1
InstName : VOA2
Sample : |W2VM100215-01|CCV|1|VOAF|1|
Misc : CCV 5ML - MIX[A]0106-02D+0201-02B
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 07:57:23 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
42) 4-Methyl-2-pentanone	14.144	14.144	0.886	58	696169	285.08	ug/L	88
44) Toluene	14.417	14.429	0.903	91	1138493	51.13	ug/L	99
45) trans-1,3-Dichloroprop...	14.607	14.618	0.915	75	505770	57.38	ug/L	93
46) 1,1,2-Trichloroethane	14.832	14.844	0.929	83	191230	48.67	ug/L	99
47) 2-Hexanone	15.069	15.069	0.944	43	2255640	337.75	ug/L	96
48) 1,3-Dichloropropane	15.034	15.045	0.941	76	413748	48.66	ug/L #	76
49) Tetrachloroethylene	15.057	15.069	0.943	164	232875	51.11	ug/L	96
50) Dibromochloromethane	15.318	15.318	0.959	129	347514	54.55	ug/L	99
51) 1,2-Dibromoethane	15.472	15.472	0.969	107	261173	49.49	ug/L	100
52) Chlorobenzene	16.006	16.006	1.002	112	746531	49.24	ug/L	98
53) 1,1,1,2-Tetrachloroethane	16.065	16.077	1.006	131	332197	53.76	ug/L	98
54) Ethylbenzene	16.089	16.101	1.007	91	1486505	53.06	ug/L	99
55) m,p-Xylenes	16.208	16.219	1.015	106	1044670	103.54	ug/L	96
56) o-Xylene	16.658	16.658	1.043	106	515783	51.78	ug/L	97
57) Styrene	16.658	16.658	1.043	104	836469	53.57	ug/L	94
59) Bromoform	16.895	16.895	0.915	173	225694	52.50	ug/L	99
60) Isopropylbenzene	17.038	17.038	0.923	105	1563654	54.72	ug/L	100
62) 1,1,2,2-Tetrachloroethane	17.310	17.310	0.938	83	331175	49.43	ug/L	98
63) 1,2,3-Trichloropropane	17.393	17.393	0.942	110	111622	46.49	ug/L	93
64) Bromobenzene	17.417	17.429	0.943	156	332585	47.00	ug/L	96
65) n-Propylbenzene	17.476	17.476	0.947	91	1892778	54.95	ug/L	100
66) 1,3,5-Trimethylbenzene	17.642	17.642	0.956	105	1402032	55.01	ug/L	98
67) 2-Chlorotoluene	17.607	17.607	0.954	126	333201	51.29	ug/L	96
68) 4-Chlorotoluene	17.714	17.714	0.960	91	1201907	52.27	ug/L	99
69) tert-Butylbenzene	18.010	18.010	0.976	134	251290	53.88	ug/L	93
70) 1,2,4-Trimethylbenzene	18.057	18.057	0.978	105	1449602	55.55	ug/L	99
71) sec-Butylbenzene	18.235	18.235	0.988	105	1785376	56.10	ug/L	100
72) 4-Isopropyltoluene	18.366	18.366	0.995	119	1466025	57.42	ug/L	98
73) 1,3-Dichlorobenzene	18.401	18.401	0.997	146	693610	49.83	ug/L	99
74) 1,4-Dichlorobenzene	18.496	18.496	1.002	146	710620	49.99	ug/L	99
75) n-Butylbenzene	18.805	18.805	1.019	91	1526312	60.77	ug/L	99
76) 1,2-Dichlorobenzene	18.899	18.899	1.024	146	674036	49.65	ug/L	99
77) 1,2-Dibromo-3-chloropr...	19.718	19.718	1.068	157	78141	44.51	ug/L	96
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	475362	53.49	ug/L	99
79) Hexachlorobutadiene	20.868	20.868	1.130	225	323853	54.60	ug/L	99
80) Naphthalene	21.022	21.022	1.139	128	1138659	50.46	ug/L	100
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156	180	426340	50.13	ug/L	99
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.		
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.		
85) Acrolein	7.563	7.646	0.609		0m	N.D.	d	
86) Trichlorotrifluoroethane	7.883	7.930	0.634		0m	N.D.	d	
87) Isopropyl Alcohol	8.286	8.191	0.667		0m	N.D.	d	
88) Allyl chloride	0.000	8.559	0.000		0	N.D.		
89) tert-Butyl Alcohol	8.938	8.938	0.719		0m	N.D.	d	
90) Acrylonitrile	9.258	9.164	0.745		0m	N.D.	d	
91) Isopropyl ether	9.994	10.077	0.804		0m	N.D.	d	
92) 2-Chloro-1,3-butadiene	10.195	10.124	0.821		0m	N.D.	d	
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.		
94) Ethyl acetate	10.812	10.919	0.870		0m	N.D.	d	
95) Propionitrile	10.824	10.907	0.871		0m	N.D.	d	
96) Methacrylonitrile	11.144	11.144	0.897		0m	N.D.	d	
97) Tetrahydrofuran	11.274	11.275	0.907		0m	N.D.	d	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22102.D
Acq On : 15 Feb 2010 7:09 am
Operator : CDS1
InstName : VOA2
Sample : |W2VM100215-01|CCV|1|VOAF|1|
Misc : CCV 5ML - MIX[A]0106-02D+0201-02B
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 07:57:23 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

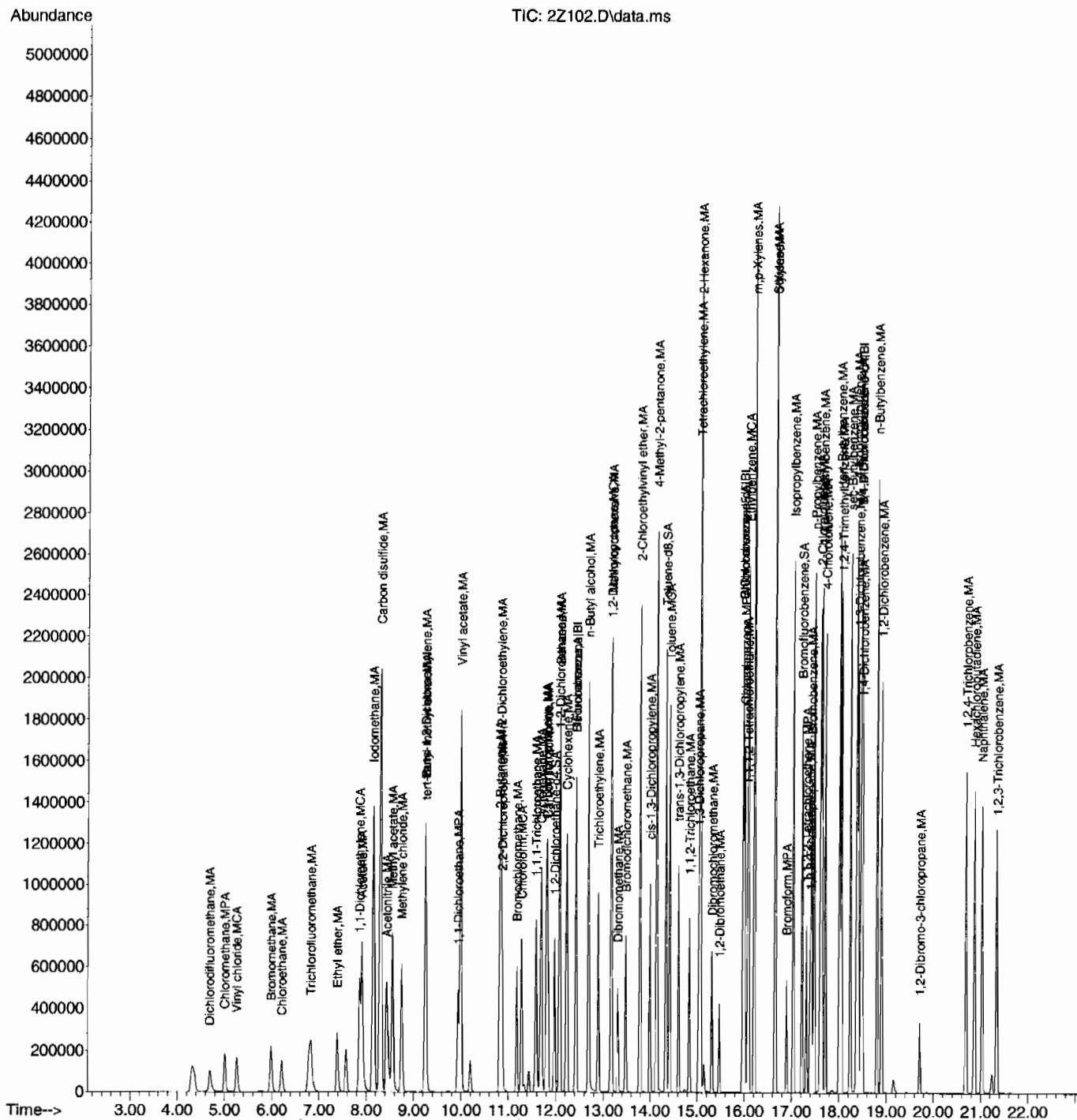
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
98) Isobutyl alcohol	11.974	11.856	0.964		0m	N.D.	d
99) Methyl tert-amyl ether	12.223	12.211	0.984		0m	N.D.	d
100) Methyl methacrylate	13.172	13.243	1.060		0m	N.D.	d
101) 1,4-Dioxane	13.314	13.314	1.072		0m	N.D.	d
102) 2-Nitropropane	13.788	13.729	1.110		0m	N.D.	d
104) Ethyl methacrylate	14.666	14.678	0.918		0m	N.D.	d
106) 1-Chlorohexane	15.970	15.911	0.865		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	17.038	17.073	0.923		0m	N.D.	d
108) Cyclohexanone	17.156	17.156	0.929		0m	N.D.	d
109) trans-1,4-Dichloro-2-b...	17.358	17.370	0.940		0m	N.D.	d
110) Pentachloroethane	18.057	18.058	0.978		0m	N.D.	d
111) Benzyl chloride	18.603	18.603	1.008		0m	N.D.	d
112) bis(2-Chloroisopropyl)...	19.018	19.018	1.030		0m	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z102.D
Acq On : 15 Feb 2010 7:09 am
Operator : CDS1
InstName : VOA2
Sample : |W2VM100215-01|CCV|1|VOAF|1|
Misc : CCV 5ML - MIX[A]0106-02D+0201-02B
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 07:57:23 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE



Continuing Calibration Summary

Client SDG: 10-1620

Instrument ID: VOA2.I

Injection Date: 15-FEB-10 08:36

Data File: 021510V2.b\2Z105.D

Init. Cal. Date(s) 08-FEB-10 17:51 - 09-FEB-10 02:32

Lab Sample ID W2VM100215-04 Quant Type ISTD

Method: 020810V2.b\VOA2-8260-020810.M

Compound	AVERF / Amount	RF CCV	Nominal CCV	Min RF	RF Q	%D / %Drift	Max	Drift Q	Curve Type
S1,2-Dichloroethane-d4	0.4698	0.47095		.01		0.24479	30		Averaged
SToluene-d8	1.3368	1.28684		.01		-3.73728	30		Averaged
SBromofluorobenzene	1.0731	1.06742		.01		-0.52931	30		Averaged
Acrolein	0.0348	0.03841		.01		10.37356	30		Averaged
Trichlorotrifluoroethane	0.1096	0.11609		.01		5.92153	30		Averaged
Allyl chloride	0.4434	0.46434		.01		4.7226	30		Averaged
Acrylonitrile	0.0929	0.09129		.01		-1.73305	30		Averaged
2-Chloro-1,3-butadiene	0.4613	0.52115		.01		12.9742	30		Averaged
Propionitrile	0.0365	0.03577		.01		-2	30		Averaged
Ethyl acetate	0.2581	0.25852		.01		0.16273	40		Averaged
Methacrylonitrile	0.1634	0.16853		.01		3.13953	30		Averaged
Tetrahydrofuran	0.0788	0.0826		.01		4.82234	30		Averaged
Isobutyl alcohol	0.0103	0.01056		.01		2.52427	40		Averaged
Methyl methacrylate	0.1308	0.13483		.01		3.08104	30		Averaged
1,4-Dioxane	0.0024	0.00216		.01		-10	40		Averaged
2-Nitropropane	250	263.46	250			5.384	30		Linear
Ethyl methacrylate	0.3405	0.35852		.01		5.29222	30		Averaged
cis-1,4-Dichloro-2-butene	0.2659	0.34611		.01		30.16548	30	*	Averaged
Cyclohexanone	0.0895	0.02849		.01		-68.1676	40	*	Averaged
trans-1,4-Dichloro-2-butene	0.2626	0.3321		.01		26.46611	30		Averaged
Pentachloroethane	0.1777	0.36727		.01		106.6798	30	*	Averaged
Benzyl chloride	0.8028	1.46688		.01		82.72048	30	*	Averaged
bis(2-Chloroisopropyl)ether	0.4036	0.43261		.01		7.18781	30		Averaged

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22105.D
Acq On : 15 Feb 2010 8:36 am
Operator : CDS1
InstName : VOA2
Sample : |W2VM100215-04|CCV|1|VOAF|1|VOA8260BS|
Misc : CCV 5G - SOIL MIX[B] 1216-08B
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 09:22:18 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev (Min)
1) Fluorobenzene	12.425	12.437	1.000	96	1446009	50.00	ug/L	-0.01
41) Chlorobenzene-d5	15.971	15.970	1.000	117	1102765	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	636164	50.00	ug/L	0.00
82) B Fluorobenzene	12.425	12.437	1.000	96	1445974	50.00	ug/L	-0.01
103) B Chlorobenzene-d5	15.971	15.971	1.000	117	1102765	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	636284	50.00	ug/L	0.00
System Monitoring Compounds								Dev (Min)
29) 1,2-Dichloroethane-d4	11.974	11.986	0.964	65	680994	50.13	ug/L	-0.01
43) Toluene-d8	14.346	14.346	0.898	98	1419077	48.13	ug/L	0.00
61) Bromofluorobenzene	17.228	17.227	0.933	95	679051	49.74	ug/L	0.00
Target Compounds								QValue
2) Dichlorodifluoromethane	4.687	4.702	0.377		0m	N.D.	d	
3) Chloromethane	4.999	4.999	0.402		0m	N.D.	d	
4) Vinyl chloride	5.252	5.266	0.423		0m	N.D.	d	
5) Bromomethane	0.000	5.980	0.000		0	N.D.		
6) Chloroethane	0.000	6.223	0.000		0	N.D.		
7) Trichlorofluoromethane	6.792	6.839	0.547		0m	N.D.	d	
8) Ethyl ether	0.000	7.409	0.000		0	N.D.		
9) Acetone	7.907	7.930	0.636		0m	N.D.	d	
10) 1,1-Dichloroethylene	7.907	7.883	0.636		0m	N.D.	d	
11) Iodomethane	8.156	8.167	0.656		0m	N.D.	d	
12) Acetonitrile	8.535	8.452	0.687		0m	N.D.	d	
13) Methyl acetate	8.571	8.571	0.690		0m	N.D.	d	
14) Carbon disulfide	8.298	8.322	0.668		0m	N.D.	d	
15) Methylene chloride	8.761	8.772	0.705		0m	N.D.	d	
16) tert-Butyl methyl ether	9.270	9.282	0.746		0m	N.D.	d	
17) trans-1,2-Dichloroethy...	9.247	9.270	0.744		0m	N.D.	d	
18) Vinyl acetate	10.006	10.017	0.805		0m	N.D.	d	
19) 1,1-Dichloroethane	9.935	9.958	0.800		0m	N.D.	d	
20) 2-Butanone	10.907	10.836	0.878		0m	N.D.	d	
21) cis-1,2-Dichloroethylene	10.907	10.848	0.878		0m	N.D.	d	
22) 2,2-Dichloropropane	10.848	10.871	0.873		0m	N.D.	d	
23) Bromochloromethane	0.000	11.203	0.000		0	N.D.		
24) Chloroform	11.286	11.298	0.908		0m	N.D.	d	
25) 1,1,1-Trichloroethane	11.583	11.606	0.932		0m	N.D.	d	
26) Cyclohexane	11.713	11.713	0.943		0m	N.D.	d	
27) 1,1-Dichloropropene	11.844	11.820	0.953		0m	N.D.	d	
28) Carbon tetrachloride	0.000	11.844	0.000		0	N.D.		
30) 1,2-Dichloroethane	12.081	12.093	0.972		0m	N.D.	d	
31) Benzene	12.093	12.093	0.973		0m	N.D.	d	
32) Cyclohexene	12.235	12.247	0.985		0m	N.D.	d	
33) n-Butyl alcohol	12.698	12.697	1.022		0m	N.D.	d	
34) Trichloroethylene	12.887	12.899	1.037		0m	N.D.	d	
35) 1,2-Dichloropropane	0.000	13.172	0.000		0	N.D.		
36) Methylcyclohexane	13.243	13.184	1.066		0m	N.D.	d	
37) Dibromomethane	13.302	13.314	1.071		0m	N.D.	d	
38) Bromodichloromethane	13.480	13.480	1.085		0m	N.D.	d	
39) 2-Chloroethylvinyl ether	13.789	13.800	1.110		0m	N.D.	d	
40) cis-1,3-Dichloropropylene	14.002	14.002	1.127		0m	N.D.	d	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z105.D
Acq On : 15 Feb 2010 8:36 am
Operator : CDS1
InstName : VOA2
Sample : |W2VM100215-04|CCV|1|VOAF|1|VOA8260BS|
Misc : CCV 5G - SOIL MIX[B] 1216-08B
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 09:22:18 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
42) 4-Methyl-2-pentanone	14.144	14.144	0.886		0m	N.D.	d
44) Toluene	14.417	14.429	0.903		0m	N.D.	d
45) trans-1,3-Dichloroprop...	14.619	14.618	0.915		0m	N.D.	d
46) 1,1,2-Trichloroethane	14.844	14.844	0.929		0m	N.D.	d
47) 2-Hexanone	15.081	15.069	0.944		0m	N.D.	d
48) 1,3-Dichloropropane	15.081	15.045	0.944		0m	N.D.	d
49) Tetrachloroethylene	15.057	15.069	0.943		0m	N.D.	d
50) Dibromochloromethane	15.318	15.318	0.959		0m	N.D.	d
51) 1,2-Dibromoethane	15.472	15.472	0.969		0m	N.D.	d
52) Chlorobenzene	16.006	16.006	1.002		0m	N.D.	d
53) 1,1,1,2-Tetrachloroethane	16.077	16.077	1.007		0m	N.D.	d
54) Ethylbenzene	16.089	16.101	1.007		0m	N.D.	d
55) m,p-Xylenes	16.208	16.219	1.015		0m	N.D.	d
56) o-Xylene	16.658	16.658	1.043		0m	N.D.	d
57) Styrene	16.658	16.658	1.043		0m	N.D.	d
59) Bromoform	16.895	16.895	0.915		0m	N.D.	d
60) Isopropylbenzene	17.038	17.038	0.923		0m	N.D.	d
62) 1,1,2,2-Tetrachloroethane	17.311	17.310	0.938		0m	N.D.	d
63) 1,2,3-Trichloropropane	17.394	17.393	0.942		0m	N.D.	d
64) Bromobenzene	17.429	17.429	0.944		0m	N.D.	d
65) n-Propylbenzene	17.477	17.476	0.947		0m	N.D.	d
66) 1,3,5-Trimethylbenzene	17.643	17.642	0.956		0m	N.D.	d
67) 2-Chlorotoluene	17.607	17.607	0.954		0m	N.D.	d
68) 4-Chlorotoluene	17.714	17.714	0.960		0m	N.D.	d
69) tert-Butylbenzene	18.058	18.010	0.978		0m	N.D.	d
70) 1,2,4-Trimethylbenzene	18.081	18.057	0.979		0m	N.D.	d
71) sec-Butylbenzene	18.236	18.235	0.988		0m	N.D.	d
72) 4-Isopropyltoluene	18.366	18.366	0.995		0m	N.D.	d
73) 1,3-Dichlorobenzene	18.402	18.401	0.997		0m	N.D.	d
74) 1,4-Dichlorobenzene	18.496	18.496	1.002		0m	N.D.	d
75) n-Butylbenzene	18.805	18.805	1.019		0m	N.D.	d
76) 1,2-Dichlorobenzene	18.900	18.899	1.024		0m	N.D.	d
77) 1,2-Dibromo-3-chloropr...	19.718	19.718	1.068		0m	N.D.	d
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121		0m	N.D.	d
79) Hexachlorobutadiene	20.868	20.868	1.130		0m	N.D.	d
80) Naphthalene	21.022	21.022	1.139		0m	N.D.	d
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156		0m	N.D.	d
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.	
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.	
85) Acrolein	7.622	7.646	0.613	56	277664	275.71 ug/L	98
86) Trichlorotrifluoroethane	7.907	7.930	0.636	85	839299	264.68 ug/L	98
87) Isopropyl Alcohol	8.203	8.191	0.660	45	17787	N.D.	
88) Allyl chloride	8.535	8.559	0.687	41	3357104	261.78 ug/L	97
89) tert-Butyl Alcohol	8.927	8.938	0.718	59	122	N.D.	
90) Acrylonitrile	9.152	9.164	0.737	53	660013	245.70 ug/L	99
91) Isopropyl ether	10.101	10.077	0.813	45	120	N.D.	
92) 2-Chloro-1,3-butadiene	10.101	10.124	0.813	53	753567	56.48 ug/L	92
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.	
94) Ethyl acetate	10.907	10.919	0.878	43	1869066	250.38 ug/L	99
95) Propionitrile	10.895	10.907	0.877	54	258644	244.97 ug/L	99
96) Methacrylonitrile	11.132	11.144	0.896	41	1218460	257.90 ug/L	98
97) Tetrahydrofuran	11.251	11.275	0.906	42	597185	262.02 ug/L	98

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z105.D
Acq On : 15 Feb 2010 8:36 am
Operator : CDS1
InstName : VOA2
Sample : |W2VM100215-04|CCV|1|VOAF|1|VOA8260BS|
Misc : CCV 5G - SOIL MIX[B] 1216-08B
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 09:22:18 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

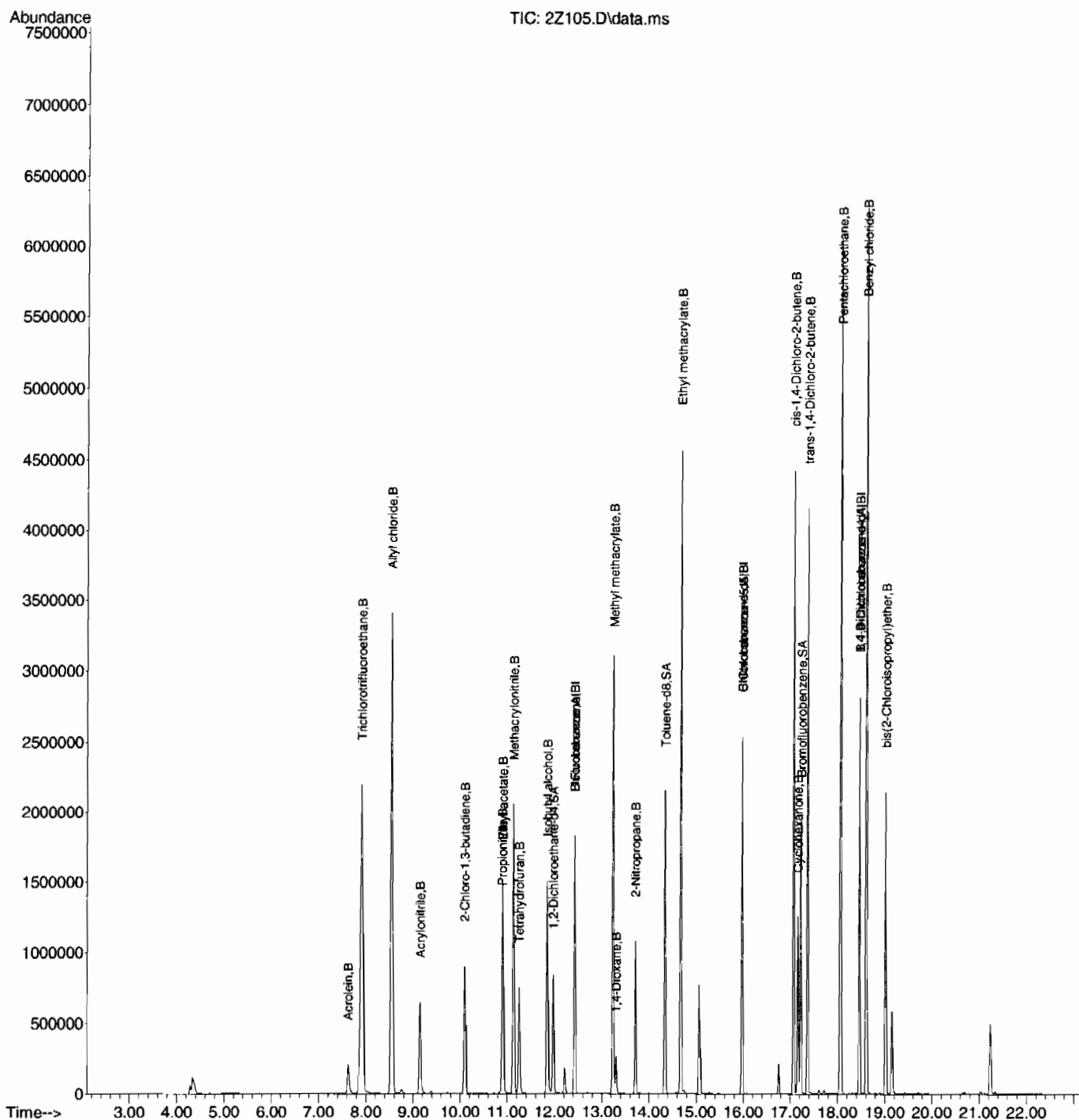
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
98) Isobutyl alcohol	11.844	11.856	0.953	41	763792	2568.83	ug/L	98
99) Methyl tert-amyl ether	12.211	12.211	0.983	73	788	N.D.		
100) Methyl methacrylate	13.243	13.243	1.066	69	974773	257.66	ug/L	94
101) 1,4-Dioxane	13.302	13.314	1.071	88	155948	2253.59	ug/L	99
102) 2-Nitropropane	13.717	13.729	1.104	43	776698	263.46	ug/L	99
104) Ethyl methacrylate	14.666	14.678	0.918	69	1976816	263.21	ug/L	95
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d	
107) cis-1,4-Dichloro-2-butene	17.073	17.073	0.925	53	1101115	325.40	ug/L	99
108) Cyclohexanone	17.156	17.156	0.929	42	453129	398.07	ug/L	95
109) trans-1,4-Dichloro-2-b...	17.370	17.370	0.941	53	1056542	316.14	ug/L	97
110) Pentachloroethane	18.070	18.058	0.979	167	1168439	516.63	ug/L	99 E
111) Benzyl chloride	18.603	18.603	1.008	91	4666768	456.78	ug/L	99
112) bis(2-Chloroisopropyl)...	19.018	19.018	1.030	45	1376308	267.95	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z105.D
Acq On : 15 Feb 2010 8:36 am
Operator : CDS1
InstName : VOA2
Sample : |W2VM100215-04|CCV|1|VOAF|1|VOA8260BS|
Misc : CCV 5G - SOIL MIX[B] 1216-08B
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 09:22:18 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE



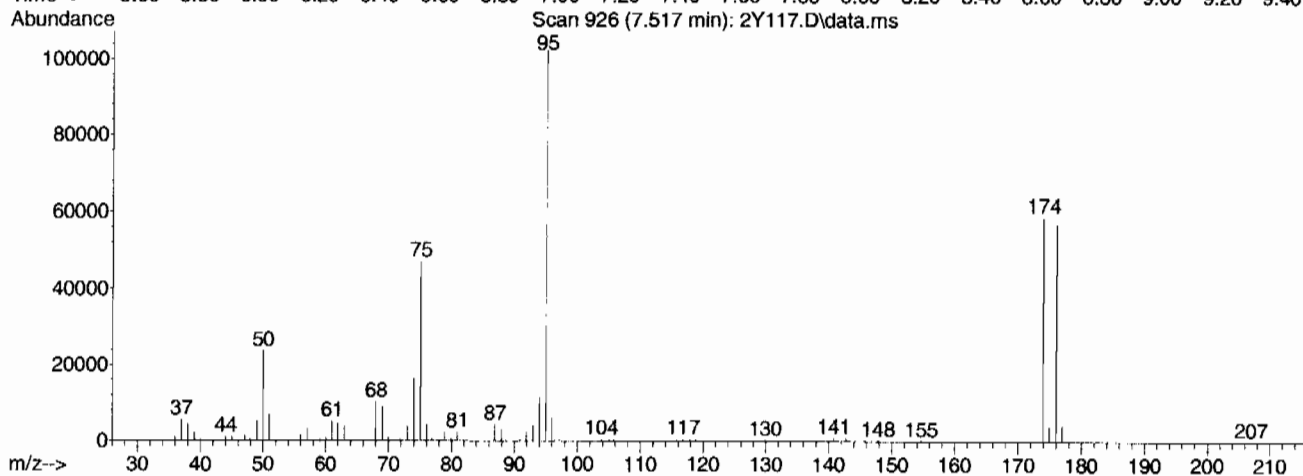
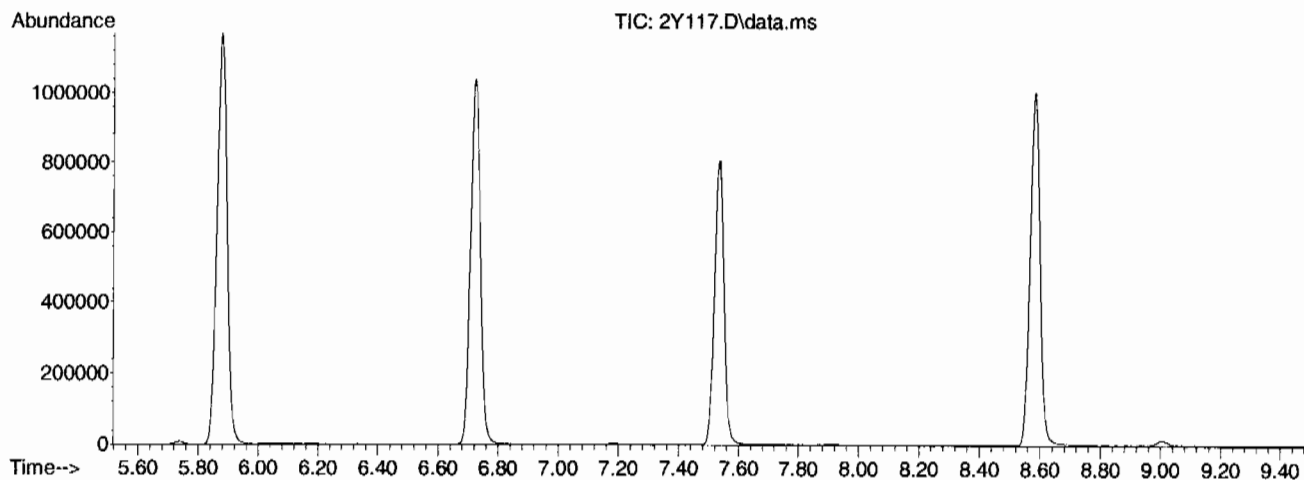
Quality Control Data

Tune Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\020810V2.b\
Data File : 2Y117.D
Acq On : 8 Feb 2010 4:55 pm
Operator : CDS1
Sample : |UVM100203-02|BFB|1|VOAF|1|
Misc : BFB01
ALS Vial : 1 Sample Multiplier: 1

Integration File: ron.P

Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Title : Volatile Organics 8260B SubList :
Last Update : Tue Feb 09 07:23:51 2010



Spectrum Information: Scan 926

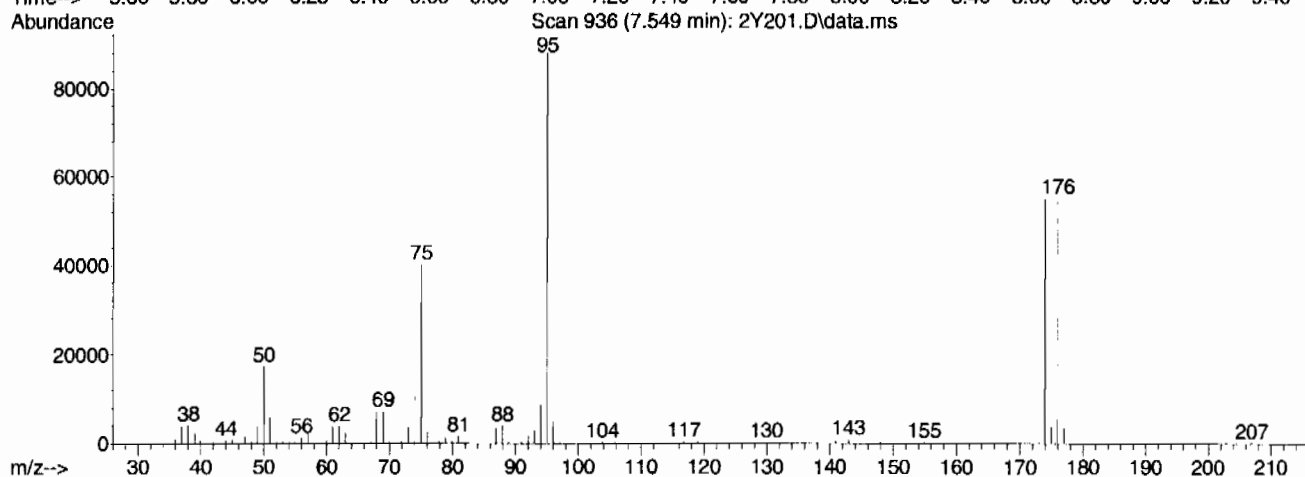
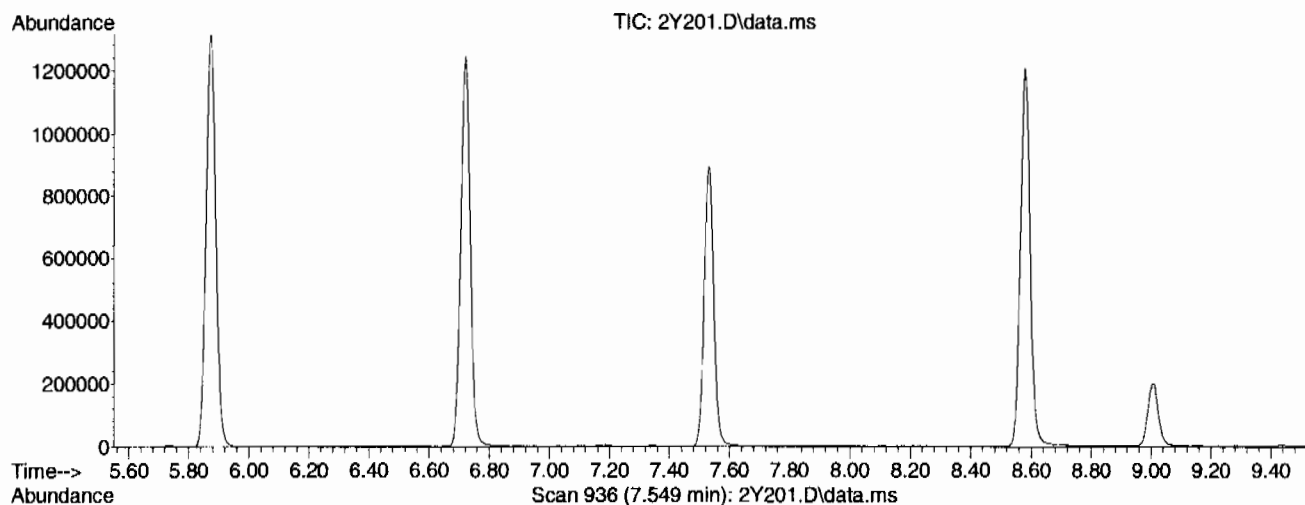
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.2	23776	PASS
75	95	30	60	46.1	47144	PASS
95	95	100	100	100.0	102280	PASS
96	95	5	9	5.9	6028	PASS
173	174	0.00	2	0.6	380	PASS
174	95	50	100	57.4	58704	PASS
175	174	5	9	7.1	4172	PASS
176	174	95	101	97.0	56952	PASS
177	176	5	9	7.4	4224	PASS

Tune Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\020910V2.b\
Data File : 2Y201.D
Acq On : 9 Feb 2010 6:39 am
Operator : CDS1
Sample : |UVM100203-02|BFB|1|VOAF|1|
Misc : BFB01
ALS Vial : 1 Sample Multiplier: 1

Integration File: ron.P

Method : C:\msdchem\1\DATA\020810V2.b\VOA2-QSM-020810.M
Title : Volatile Organics 8260B SubList :
Last Update : Tue Feb 09 07:23:51 2010



Spectrum Information: Scan 936

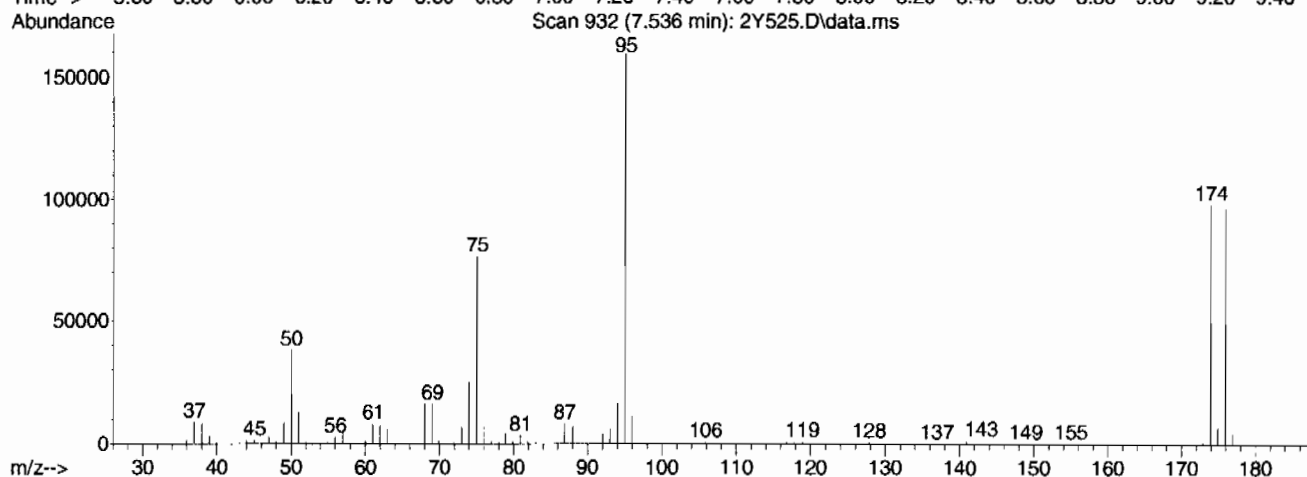
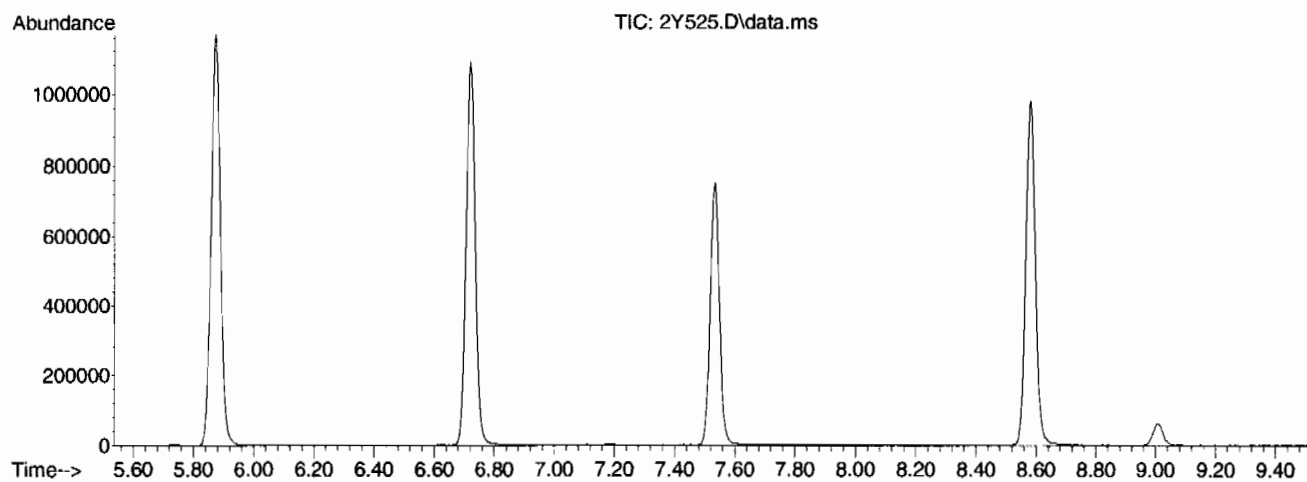
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	17320	PASS
75	95	30	60	45.7	40208	PASS
95	95	100	100	100.0	88008	PASS
96	95	5	9	5.4	4775	PASS
173	174	0.00	2	0.4	235	PASS
174	95	50	100	62.5	54992	PASS
175	174	5	9	7.1	3879	PASS
176	174	95	101	100.2	55112	PASS
177	176	5	9	6.2	3426	PASS

Tune Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y525.D
Acq On : 12 Feb 2010 6:23 pm
Operator : CDS1
Sample : |UVM100203-02|BFB2|1|VOAF|1|
Misc : BFB01
ALS Vial : 25 Sample Multiplier: 1

Integration File: ron.P

Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Title : Volatile Organics 8260B SubList :
Last Update : Tue Feb 09 07:23:51 2010



Spectrum Information: Scan 932

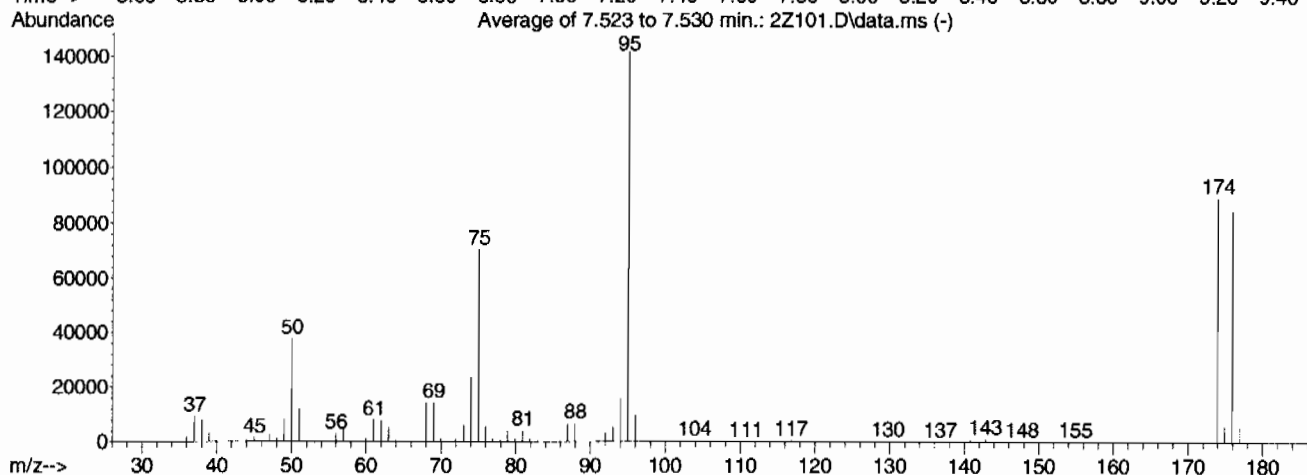
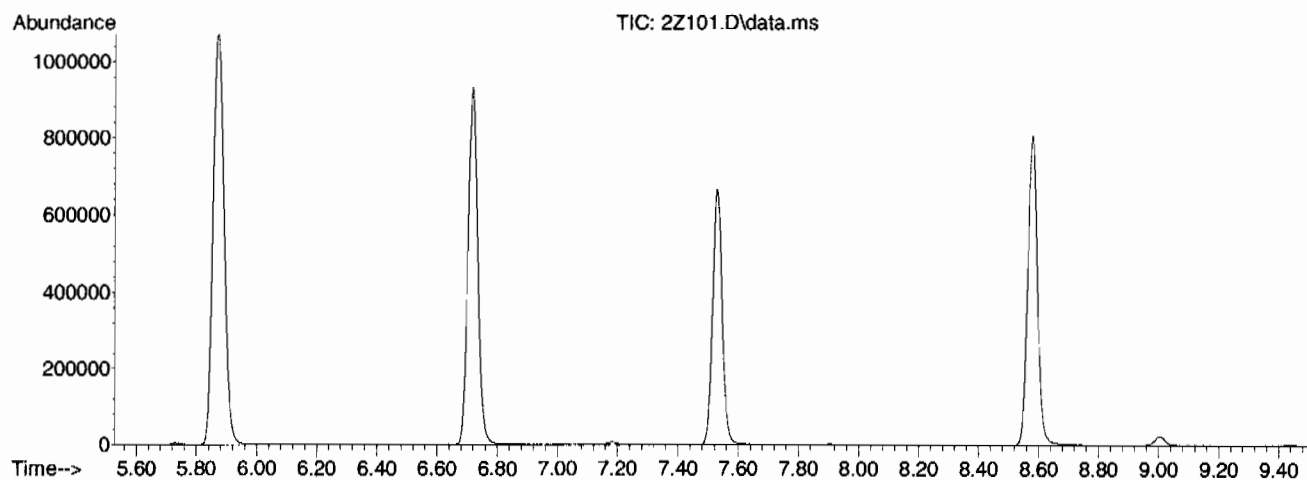
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.7	37792	PASS
75	95	30	60	48.0	76568	PASS
95	95	100	100	100.0	159616	PASS
96	95	5	9	7.0	11212	PASS
173	174	0.00	2	0.7	690	PASS
174	95	50	100	61.4	98032	PASS
175	174	5	9	6.9	6746	PASS
176	174	95	101	98.1	96208	PASS
177	176	5	9	6.3	6017	PASS

Tune Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z101.D
Acq On : 15 Feb 2010 6:42 am
Operator : CDS1
Sample : |UVM100203-02|BFB|1|VOAF|1|
Misc : BFB01
ALS Vial : 1 Sample Multiplier: 1

Integration File: ron.P

Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Title : Volatile Organics 8260B SubList :
Last Update : Tue Feb 09 07:23:51 2010



Spectrum Information: Average of 7.523 to 7.530 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.6	37779	PASS
75	95	30	60	49.8	70672	PASS
95	95	100	100	100.0	141909	PASS
96	95	5	9	7.1	10020	PASS
173	174	0.00	2	0.6	492	PASS
174	95	50	100	62.9	89315	PASS
175	174	5	9	6.5	5818	PASS
176	174	95	101	95.0	84859	PASS
177	176	5	9	6.4	5421	PASS

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
 Lab Sample ID: 1202041683
 Client Sample: QC for batch 952579
 Client ID: MB for batch 952579
 Batch ID: 952586
 Run Date: 02/12/2010 20:16
 Prep Date: 02/12/2010 14:00
 Data File: 021210V2.b\2Y529.D

Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.1
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: SOIL
 Project: QC
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.00	ug/kg	0.340	1.00
74-87-3	Chloromethane	U	1.00	ug/kg	0.300	1.00
75-01-4	Vinyl chloride	U	1.00	ug/kg	0.300	1.00
74-83-9	Bromomethane	U	1.00	ug/kg	0.300	1.00
75-00-3	Chloroethane	U	1.00	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/kg	0.300	1.00
67-64-1	Acetone	U	5.00	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
74-88-4	Iodomethane	U	5.00	ug/kg	1.60	5.00
75-09-2	Methylene chloride	U	5.00	ug/kg	2.00	5.00
75-15-0	Carbon disulfide	U	5.00	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/kg	0.300	1.00
78-93-3	2-Butanone	U	5.00	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
67-66-3	Chloroform	U	1.00	ug/kg	0.300	1.00
74-97-5	Bromochloromethane	U	1.00	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene	U	1.00	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/kg	0.300	1.00
71-43-2	Benzene	U	1.00	ug/kg	0.300	1.00
79-01-6	Trichloroethylene	U	1.00	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/kg	0.300	1.00
74-95-3	Dibromomethane	U	1.00	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
108-88-3	Toluene	U	1.00	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/kg	0.300	1.00
591-78-6	2-Hexanone	U	5.00	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane	U	1.00	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene	U	1.00	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane	U	1.00	ug/kg	0.300	1.00
108-90-7	Chlorobenzene	U	1.00	ug/kg	0.300	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 1202041683
 Client Sample: QC for batch 952579
 Client ID: MB for batch 952579
 Batch ID: 952586
 Run Date: 02/12/2010 20:16
 Prep Date: 02/12/2010 14:00
 Data File: 021210V2.b\2Y529.D

Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.1
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: SOIL
 Project: QC
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.00	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes	U	2.00	ug/kg	0.300	2.00
95-47-6	o-Xylene	U	1.00	ug/kg	0.300	1.00
100-42-5	Styrene	U	1.00	ug/kg	0.300	1.00
75-25-2	Bromoform	U	1.00	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane	U	1.00	ug/kg	0.300	1.00
108-86-1	Bromobenzene	U	1.00	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene	U	1.00	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene	U	1.00	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene	U	1.00	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene	U	1.00	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene	U	1.00	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene	U	1.00	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/kg	0.300	1.00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.00	ug/kg	1.60	5.00
630-20-6	1,1,1,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.32	9.67	ug/kg	0	J

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y529.D
Acq On : 12 Feb 2010 8:16 pm
Operator : CDS1
InstName : VOA2
Sample : |1202041683|952586|1|VOAF|1|VOA8260BS|
Misc : BLANK 5G - SOIL
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 15 07:38:42 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev (Min)
1) Fluorobenzene	12.437	12.437	1.000	96	1369243	50.00	ug/L	0.00
41) Chlorobenzene-d5	15.970	15.970	1.000	117	1040545	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	593572	50.00	ug/L	0.00
82) B Fluorobenzene	12.437	12.437	1.000	96	1369058	50.00	ug/L	0.00
103) B Chlorobenzene-d5	15.970	15.971	1.000	117	1040666	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	593830	50.00	ug/L	0.00
System Monitoring Compounds								Dev (Min)
29) 1,2-Dichloroethane-d4	11.986	11.986	0.964	65	646894	50.29	ug/L	0.00
Spiked Amount 50.000	Range 66	- 134	Recovery	=	100.58%			
43) Toluene-d8	14.346	14.346	0.898	98	1355844	48.74	ug/L	0.00
Spiked Amount 50.000	Range 71	- 128	Recovery	=	97.48%			
61) Bromofluorobenzene	17.227	17.227	0.933	95	631323	49.56	ug/L	0.00
Spiked Amount 50.000	Range 65	- 130	Recovery	=	99.12%			
Target Compounds								QValue
2) Dichlorodifluoromethane	4.687	4.702	0.377	85	170	N.D.		
3) Chloromethane	4.999	4.999	0.402	50	1785	N.D.		
4) Vinyl chloride	5.237	5.266	0.421	62	1242	N.D.		
5) Bromomethane	0.000	5.980	0.000		0	N.D.		
6) Chloroethane	0.000	6.223	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000	6.839	0.000		0	N.D.		
8) Ethyl ether	0.000	7.409	0.000		0	N.D.		
9) Acetone	7.990	7.930	0.642	43	2661	N.D.		
10) 1,1-Dichloroethylene	0.000	7.883	0.000		0	N.D.		
11) Iodomethane	0.000	8.167	0.000		0	N.D.		
12) Acetonitrile	8.500	8.452	0.683	41	2914	N.D.		
13) Methyl acetate	8.606	8.571	0.692	43	485	N.D.		
14) Carbon disulfide	8.322	8.322	0.669	76	2338	N.D.		
15) Methylene chloride	8.772	8.772	0.705	84	5093	N.D.		
16) tert-Butyl methyl ether	0.000	9.282	0.000		0	N.D.		
17) trans-1,2-Dichloroethy...	0.000	9.270	0.000		0	N.D.		
18) Vinyl acetate	10.017	10.017	0.805	43	850	N.D.		
19) 1,1-Dichloroethane	0.000	9.958	0.000		0	N.D.		
20) 2-Butanone	10.871	10.836	0.874	43	977	N.D.		
21) cis-1,2-Dichloroethylene	0.000	10.848	0.000		0	N.D.		
22) 2,2-Dichloropropane	0.000	10.871	0.000		0	N.D.		
23) Bromochloromethane	0.000	11.203	0.000		0	N.D.		
24) Chloroform	11.298	11.298	0.908	83	282	N.D.		
25) 1,1,1-Trichloroethane	11.595	11.606	0.932	97	109	N.D.		
26) Cyclohexane	11.701	11.713	0.941	56	232	N.D.		
27) 1,1-Dichloropropene	0.000	11.820	0.000		0	N.D.		
28) Carbon tetrachloride	0.000	11.844	0.000		0	N.D.		
30) 1,2-Dichloroethane	12.081	12.093	0.971	62	327	N.D.		
31) Benzene	12.093	12.093	0.972	78	605	N.D.		
32) Cyclohexene	0.000	12.247	0.000		0	N.D.		
33) n-Butyl alcohol	0.000	12.697	0.000		0m	N.D.	d	
34) Trichloroethylene	12.899	12.899	1.037	95	285	N.D.		
35) 1,2-Dichloropropane	0.000	13.172	0.000		0	N.D.		
36) Methylcyclohexane	0.000	13.184	0.000		0	N.D.		
37) Dibromomethane	0.000	13.314	0.000		0	N.D.		

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y529.D
Acq On : 12 Feb 2010 8:16 pm
Operator : CDS1
InstName : VOA2
Sample : |1202041683|952586|1|VOAF|1|VOA8260BS|
Misc : BLANK 5G - SOIL
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 15 07:38:42 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
38) Bromodichloromethane	0.000	13.480	0.000		0	N.D.	
39) 2-Chloroethylvinyl ether	0.000	13.800	0.000		0	N.D.	
40) cis-1,3-Dichloropropylene	14.002	14.002	1.126	75	160	N.D.	
42) 4-Methyl-2-pentanone	0.000	14.144	0.000		0	N.D.	
44) Toluene	14.429	14.429	0.903	91	1828	N.D.	
45) trans-1,3-Dichloroprop...	14.619	14.618	0.915	75	403	N.D.	
46) 1,1,2-Trichloroethane	0.000	14.844	0.000		0	N.D.	
47) 2-Hexanone	15.081	15.069	0.944	43	717	N.D.	
48) 1,3-Dichloropropane	15.045	15.045	0.942	76	259	N.D.	
49) Tetrachloroethylene	0.000	15.069	0.000		0	N.D.	
50) Dibromochloromethane	0.000	15.318	0.000		0	N.D.	
51) 1,2-Dibromoethane	15.472	15.472	0.969	107	132	N.D.	
52) Chlorobenzene	16.006	16.006	1.002	112	1126	N.D.	
53) 1,1,1,2-Tetrachloroethane	0.000	16.077	0.000		0	N.D.	
54) Ethylbenzene	16.219	16.101	1.016	91	1511	N.D.	
55) m,p-Xylenes	16.219	16.219	1.016	106	766	N.D.	
56) o-Xylene	0.000	16.658	0.000		0	N.D.	
57) Styrene	16.658	16.658	1.043	104	798	N.D.	
59) Bromoform	0.000	16.895	0.000		0	N.D.	
60) Isopropylbenzene	17.038	17.038	0.923	105	318	N.D.	
62) 1,1,2,2-Tetrachloroethane	0.000	17.310	0.000		0	N.D.	
63) 1,2,3-Trichloropropane	0.000	17.393	0.000		0	N.D.	
64) Bromobenzene	17.429	17.429	0.944	156	603	N.D.	
65) n-Propylbenzene	17.476	17.476	0.947	91	1081	N.D.	
66) 1,3,5-Trimethylbenzene	17.642	17.642	0.956	105	577	N.D.	
67) 2-Chlorotoluene	17.607	17.607	0.954	126	107	N.D.	
68) 4-Chlorotoluene	17.714	17.714	0.960	91	1710	N.D.	
69) tert-Butylbenzene	0.000	18.010	0.000		0	N.D.	
70) 1,2,4-Trimethylbenzene	18.046	18.057	0.978	105	869	N.D.	
71) sec-Butylbenzene	18.235	18.235	0.988	105	438	N.D.	
72) 4-Isopropyltoluene	18.366	18.366	0.995	119	516	N.D.	
73) 1,3-Dichlorobenzene	18.401	18.401	0.997	146	1132	N.D.	
74) 1,4-Dichlorobenzene	18.496	18.496	1.002	146	1878	N.D.	
75) n-Butylbenzene	18.805	18.805	1.019	91	958	N.D.	
76) 1,2-Dichlorobenzene	18.899	18.899	1.024	146	1030	N.D.	
77) 1,2-Dibromo-3-chloropr...	0.000	19.718	0.000		0	N.D.	
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	1189	N.D.	
79) Hexachlorobutadiene	20.868	20.868	1.130	225	107	N.D.	
80) Naphthalene	21.022	21.022	1.139	128	3770	N.D.	
81) 1,2,3-Trichlorobenzene	21.330	21.342	1.155	180	1308	N.D.	
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.	
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.	
85) Acrolein	7.717	7.646	0.621	56	484	N.D.	
86) Trichlorotrifluoroethane	0.000	7.930	0.000		0	N.D.	
87) Isopropyl Alcohol	0.000	8.191	0.000		0	N.D.	
88) Allyl chloride	8.500	8.559	0.683	41	2914	N.D.	
89) tert-Butyl Alcohol	8.962	8.938	0.721	59	113	N.D.	
90) Acrylonitrile	9.199	9.164	0.740	53	927	N.D.	
91) Isopropyl ether	0.000	10.077	0.000		0	N.D.	
92) 2-Chloro-1,3-butadiene	0.000	10.124	0.000		0	N.D.	
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.	
94) Ethyl acetate	10.942	10.919	0.880	43	1156	N.D.	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y529.D
Acq On : 12 Feb 2010 8:16 pm
Operator : CDS1
InstName : VOA2
Sample : |1202041683|952586|1|VOAF|1|VOA8260BS|
Misc : BLANK 5G - SOIL
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 15 07:38:42 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

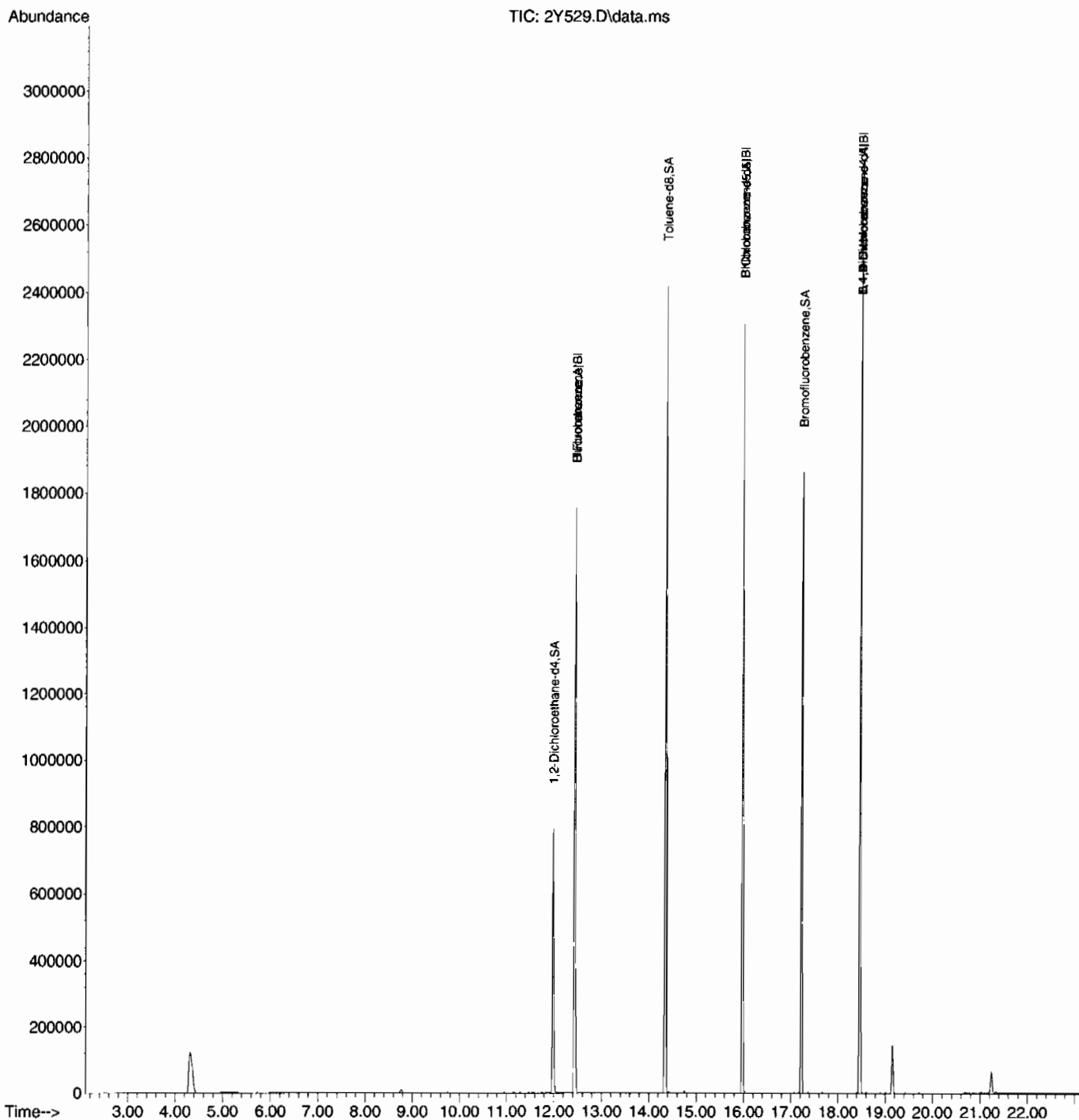
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	0.000	10.907	0.000		0	N.D.	
96) Methacrylonitrile	11.144	11.144	0.896	41	904	N.D.	
97) Tetrahydrofuran	11.298	11.275	0.908	42	645	N.D.	
98) Isobutyl alcohol	11.856	11.856	0.953	41	767	N.D.	
99) Methyl tert-amyl ether	0.000	12.211	0.000		0	N.D.	
100) Methyl methacrylate	13.255	13.243	1.066	69	315	N.D.	
101) 1,4-Dioxane	0.000	13.314	0.000		0	N.D.	
102) 2-Nitropropane	0.000	13.729	0.000		0m	N.D.	d
104) Ethyl methacrylate	14.678	14.678	0.919	69	669	N.D.	
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	17.073	17.073	0.925	53	941	N.D.	
108) Cyclohexanone	17.168	17.156	0.930	42	1147	N.D.	
109) trans-1,4-Dichloro-2-b...	17.370	17.370	0.941	53	1484	N.D.	
110) Pentachloroethane	0.000	18.058	0.000		0	N.D.	
111) Benzyl chloride	18.603	18.603	1.008	91	3907	N.D.	
112) bis(2-Chloroisopropyl)...	19.018	19.018	1.030	45	2396	N.D.	

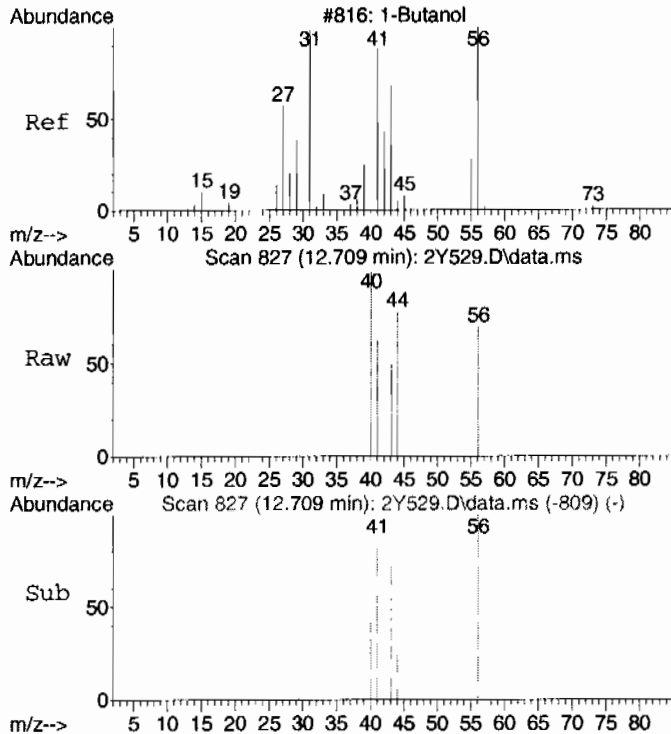
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y529.D
Acq On : 12 Feb 2010 8:16 pm
Operator : CDS1
InstName : VOA2
Sample : |1202041683|952586|1|VOAF|1|VOA8260BS|
Misc : BLANK 5G - SOIL
ALS Vial : 29 Sample Multiplier: 1

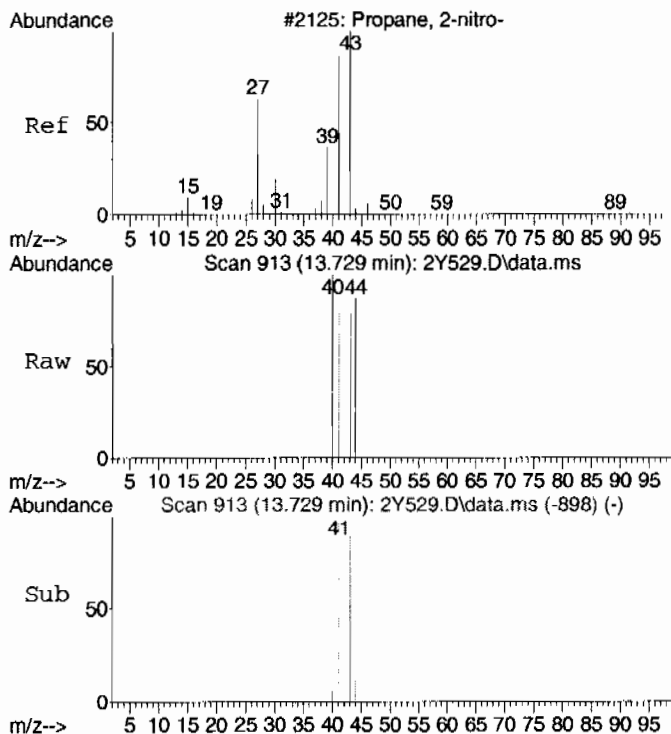
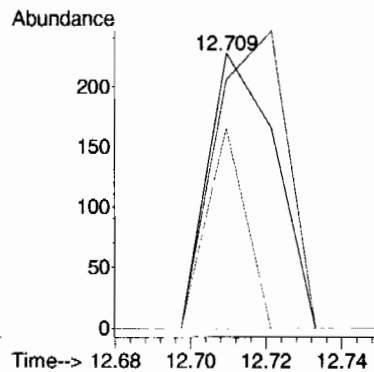
Quant Time: Feb 15 07:38:42 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE





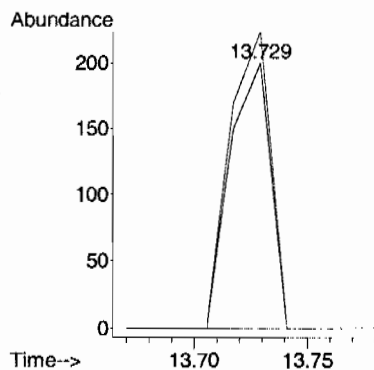
#33 BEFORE analyst DELETION
n-Butyl alcohol
Concen: 151.15 ug/L
RT: 12.709 min Scan# 827
Delta R.T. 0.012 min
Lab File: 2Y529.D
Acq: 12 Feb 2010 8:16 pm

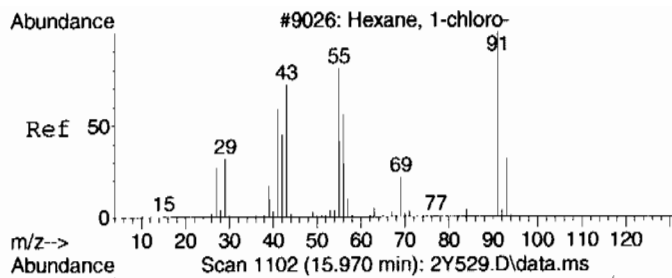
Tgt Ion	Ratio	Lower	Upper
56	100		
41	115.0	47.7	107.7#
43	0.0	30.2	90.2#



#102 BEFORE analyst DELETION
2-Nitropropane
Concen: 7.18 ug/L
RT: 13.729 min Scan# 913
Delta R.T. 0.000 min
Lab File: 2Y529.D
Acq: 12 Feb 2010 8:16 pm

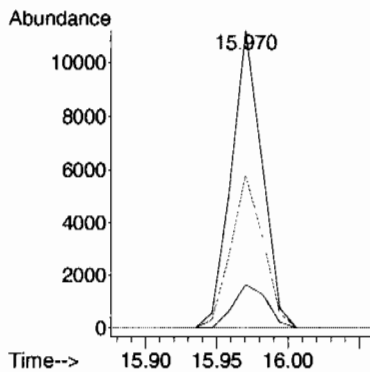
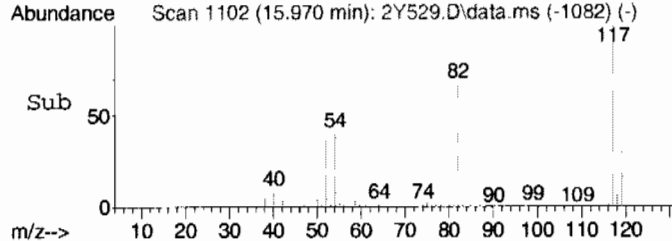
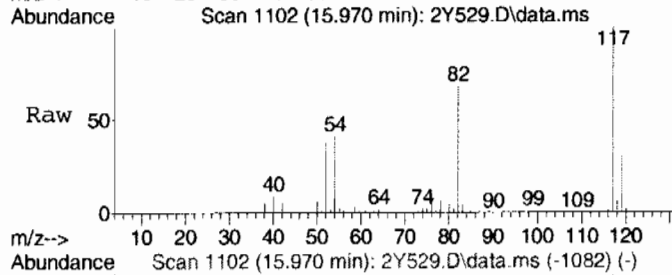
Tgt Ion	Ratio	Lower	Upper
43	100		
41	112.4	50.8	110.8#





#106 BEFORE analyst DELETION
 1-Chlorohexane
 Concen: 2.02 ug/L
 RT: 15.970 min Scan# 1102
 Delta R.T. 0.059 min
 Lab File: 2Y529.D
 Acq: 12 Feb 2010 8:16 pm

Tgt Ion: 55 Resp: 16833
 Ion Ratio Lower Upper
 55 100
 91 16.0 66.2 126.2#
 56 54.1 26.7 86.7



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y529.D
Acq On : 12 Feb 2010 8:16 pm
Operator : CDS1
Sample : |1202041683|952586|1|VOAF|1|VOA8260BS|
Misc : BLANK 5G - SOIL
ALS Vial : 29 Sample Multiplier: 1

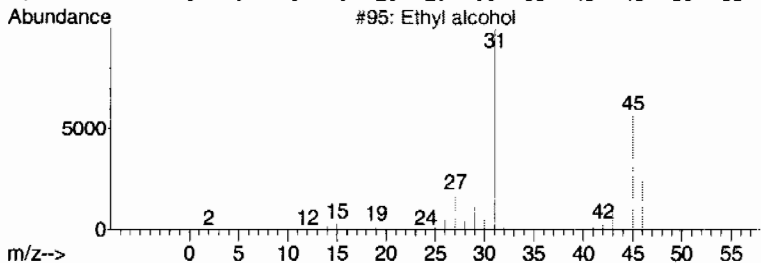
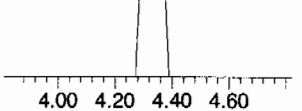
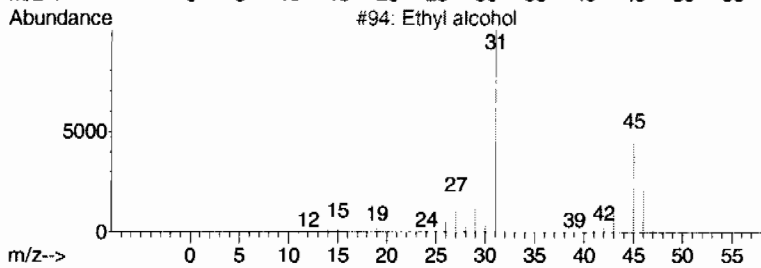
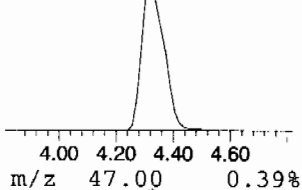
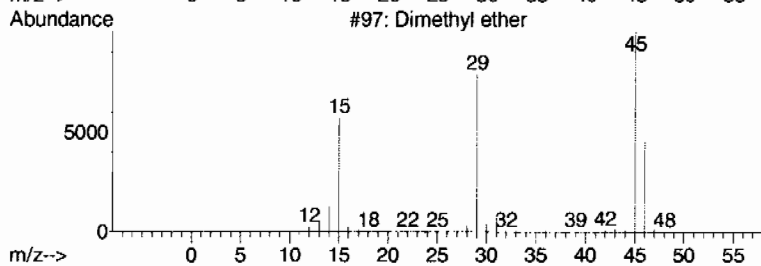
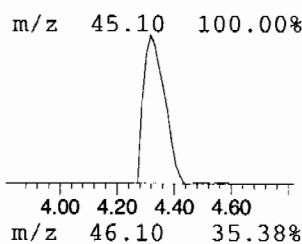
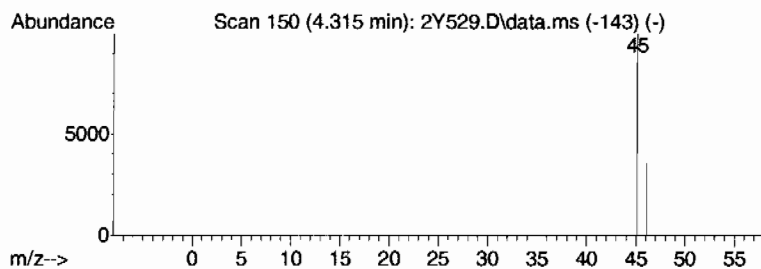
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.315	9.67 ug/L	636434	Fluorobenzene	12.437

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dimethyl ether	46	C2H6O	000115-10-6	5
2	Ethyl alcohol	46	C2H6O	000064-17-5	4
3	Ethyl alcohol	46	C2H6O	000064-17-5	4
4	Ethyl alcohol	46	C2H6O	000064-17-5	4
5	Formic acid	46	CH2O2	000064-18-6	3



Tentatively Identified Compound (LSC) summary
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y529.D
Acq On : 12 Feb 2010 8:16 pm
Operator : CDS1
Sample : |1202041683|952586|1|VOAF|1|VOA8260BS|
Misc : BLANK 5G - SOIL
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown	4.315	9.7	ug/L	636434	1	12.437	3289680	50.0

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620

Matrix: SOIL

Lab Sample ID: 1202044278

Client Sample: QC for batch 952579

Client: LANL010

Project: QC

Client ID: MB for batch 952579

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 952586

Inst: VOA2.1

Dilution: 1

Run Date: 02/15/2010 09:34

Analyst: CDS1

Purge Vol: 5 mL

Prep Date: 02/15/2010 06:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 021510V2.b\2Z107B2.D

Column: DB-624

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.00	ug/kg	0.340	1.00
74-87-3	Chloromethane	U	1.00	ug/kg	0.300	1.00
75-01-4	Vinyl chloride	U	1.00	ug/kg	0.300	1.00
74-83-9	Bromomethane	U	1.00	ug/kg	0.300	1.00
75-00-3	Chloroethane	U	1.00	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/kg	0.300	1.00
67-64-1	Acetone	U	5.00	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
74-88-4	Iodomethane	U	5.00	ug/kg	1.60	5.00
75-09-2	Methylene chloride	U	5.00	ug/kg	2.00	5.00
75-15-0	Carbon disulfide	U	5.00	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/kg	0.300	1.00
78-93-3	2-Butanone	U	5.00	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
67-66-3	Chloroform	U	1.00	ug/kg	0.300	1.00
74-97-5	Bromochloromethane	U	1.00	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene	U	1.00	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/kg	0.300	1.00
71-43-2	Benzene	U	1.00	ug/kg	0.300	1.00
79-01-6	Trichloroethylene	U	1.00	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/kg	0.300	1.00
74-95-3	Dibromomethane	U	1.00	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
108-88-3	Toluene	U	1.00	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/kg	0.300	1.00
591-78-6	2-Hexanone	U	5.00	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane	U	1.00	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene	U	1.00	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane	U	1.00	ug/kg	0.300	1.00
108-90-7	Chlorobenzene	U	1.00	ug/kg	0.300	1.00

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 1202044278
Client Sample: QC for batch 952579
Client ID: MB for batch 952579
Batch ID: 952586
Run Date: 02/15/2010 09:34
Prep Date: 02/15/2010 06:00
Data File: 021510V2.b\2Z107B2.D

Client: LANL010
Method: SW846 8260B
Inst: VOA2.1
Analyst: CDS1
Aliquot: 5 g
Column: DB-624

Matrix: SOIL
Project: QC
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.00	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes	U	2.00	ug/kg	0.300	2.00
95-47-6	o-Xylene	U	1.00	ug/kg	0.300	1.00
100-42-5	Styrene	U	1.00	ug/kg	0.300	1.00
75-25-2	Bromoform	U	1.00	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane	U	1.00	ug/kg	0.300	1.00
108-86-1	Bromobenzene	U	1.00	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene	U	1.00	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene	U	1.00	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene	U	1.00	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene	U	1.00	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene	U	1.00	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene	U	1.00	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/kg	0.300	1.00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.00	ug/kg	1.60	5.00
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	unknown	4.32	10.8	ug/kg	0	J
	unknown siloxane	19.16	5.4	ug/kg	0	J
	unknown siloxane	21.24	7.35	ug/kg	0	J

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22107B2.D
Acq On : 15 Feb 2010 9:34 am
Operator : CDS1
InstName : VOA2
Sample : |1202044278|952586|1|VOAF|1|VOA8260BS|
Misc : BLANK 5G - SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 15 10:29:03 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev (Min)
1) Fluorobenzene	12.437	12.437	1.000	96	1280594	50.00	ug/L	0.00
41) Chlorobenzene-d5	15.970	15.970	1.000	117	975131	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	570939	50.00	ug/L	0.00
82) B Fluorobenzene	12.437	12.437	1.000	96	1280541	50.00	ug/L	0.00
103) B Chlorobenzene-d5	15.970	15.971	1.000	117	975353	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	571220	50.00	ug/L	0.00
System Monitoring Compounds								Dev (Min)
29) 1,2-Dichloroethane-d4	11.974	11.986	0.963	65	629380	52.31	ug/L	-0.01
Spiked Amount	50.000	Range	66 - 134	Recovery	= 104.62%			
43) Toluene-d8	14.346	14.346	0.898	98	1256739	48.20	ug/L	0.00
Spiked Amount	50.000	Range	71 - 128	Recovery	= 96.40%			
61) Bromofluorobenzene	17.227	17.227	0.933	95	599663	48.94	ug/L	0.00
Spiked Amount	50.000	Range	65 - 130	Recovery	= 97.88%			
Target Compounds								
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	QValue
2) Dichlorodifluoromethane	0.000	4.702	0.000		0	N.D.		
3) Chloromethane	4.999	4.999	0.402	50	759	N.D.		
4) Vinyl chloride	5.237	5.266	0.421	62	979	N.D.		
5) Bromomethane	0.000	5.980	0.000		0	N.D.		
6) Chloroethane	0.000	6.223	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000	6.839	0.000		0	N.D.		
8) Ethyl ether	0.000	7.409	0.000		0	N.D.		
9) Acetone	8.002	7.930	0.643	43	2042	N.D.		
10) 1,1-Dichloroethylene	0.000	7.883	0.000		0	N.D.		
11) Iodomethane	0.000	8.167	0.000		0	N.D.		
12) Acetonitrile	8.500	8.452	0.683	41	1248	N.D.		
13) Methyl acetate	8.618	8.571	0.693	43	115	N.D.		
14) Carbon disulfide	8.298	8.322	0.667	76	1386	N.D.		
15) Methylene chloride	8.761	8.772	0.704	84	12718	N.D.		
16) tert-Butyl methyl ether	0.000	9.282	0.000		0	N.D.		
17) trans-1,2-Dichloroethy...	0.000	9.270	0.000		0	N.D.		
18) Vinyl acetate	10.029	10.017	0.806	43	246	N.D.		
19) 1,1-Dichloroethane	0.000	9.958	0.000		0	N.D.		
20) 2-Butanone	10.859	10.836	0.873	43	503	N.D.		
21) cis-1,2-Dichloroethylene	0.000	10.848	0.000		0	N.D.		
22) 2,2-Dichloropropane	0.000	10.871	0.000		0	N.D.		
23) Bromochloromethane	0.000	11.203	0.000		0	N.D.		
24) Chloroform	11.286	11.298	0.908	83	255	N.D.		
25) 1,1,1-Trichloroethane	0.000	11.606	0.000		0	N.D.		
26) Cyclohexane	0.000	11.713	0.000		0	N.D.		
27) 1,1-Dichloropropene	0.000	11.820	0.000		0	N.D.		
28) Carbon tetrachloride	0.000	11.844	0.000		0	N.D.		
30) 1,2-Dichloroethane	12.081	12.093	0.971	62	112	N.D.		
31) Benzene	12.093	12.093	0.972	78	473	N.D.		
32) Cyclohexene	0.000	12.247	0.000		0	N.D.		
33) n-Butyl alcohol	0.000	12.697	0.000		0	N.D.		
34) Trichloroethylene	12.899	12.899	1.037	95	221	N.D.		
35) 1,2-Dichloropropane	0.000	13.172	0.000		0	N.D.		
36) Methylcyclohexane	0.000	13.184	0.000		0	N.D.		
37) Dibromomethane	0.000	13.314	0.000		0	N.D.		

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z107B2.D
Acq On : 15 Feb 2010 9:34 am
Operator : CDS1
InstName : VOA2
Sample : |1202044278|952586|1|VOAF|1|VOA8260BS|
Misc : BLANK 5G - SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 15 10:29:03 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
38) Bromodichloromethane	0.000	13.480	0.000		0	N.D.	
39) 2-Chloroethylvinyl ether	0.000	13.800	0.000		0	N.D.	
40) cis-1,3-Dichloropropylene	0.000	14.002	0.000		0	N.D.	
42) 4-Methyl-2-pentanone	0.000	14.144	0.000		0	N.D.	
44) Toluene	14.417	14.429	0.903	91	900	N.D.	
45) trans-1,3-Dichloroprop...	14.619	14.618	0.915	75	176	N.D.	
46) 1,1,2-Trichloroethane	0.000	14.844	0.000		0	N.D.	
47) 2-Hexanone	15.069	15.069	0.944	43	561	N.D.	
48) 1,3-Dichloropropane	0.000	15.045	0.000		0	N.D.	
49) Tetrachloroethylene	0.000	15.069	0.000		0	N.D.	
50) Dibromochloromethane	0.000	15.318	0.000		0	N.D.	
51) 1,2-Dibromoethane	0.000	15.472	0.000		0	N.D.	
52) Chlorobenzene	16.006	16.006	1.002	112	689	N.D.	
53) 1,1,1,2-Tetrachloroethane	0.000	16.077	0.000		0	N.D.	
54) Ethylbenzene	16.220	16.101	1.016	91	803	N.D.	
55) m,p-Xylenes	16.208	16.219	1.015	106	206	N.D.	
56) o-Xylene	0.000	16.658	0.000		0	N.D.	
57) Styrene	16.670	16.658	1.044	104	400	N.D.	
59) Bromoform	0.000	16.895	0.000		0	N.D.	
60) Isopropylbenzene	0.000	17.038	0.000		0	N.D.	
62) 1,1,2,2-Tetrachloroethane	0.000	17.310	0.000		0	N.D.	
63) 1,2,3-Trichloropropane	0.000	17.393	0.000		0	N.D.	
64) Bromobenzene	17.429	17.429	0.944	156	261	N.D.	
65) n-Propylbenzene	17.477	17.476	0.947	91	504	N.D.	
66) 1,3,5-Trimethylbenzene	17.643	17.642	0.956	105	239	N.D.	
67) 2-Chlorotoluene	17.714	17.607	0.960	126	152	N.D.	
68) 4-Chlorotoluene	17.714	17.714	0.960	91	956	N.D.	
69) tert-Butylbenzene	0.000	18.010	0.000		0	N.D.	
70) 1,2,4-Trimethylbenzene	18.058	18.057	0.978	105	290	N.D.	
71) sec-Butylbenzene	0.000	18.235	0.000		0	N.D.	
72) 4-Isopropyltoluene	18.461	18.366	1.000	119	113	N.D.	
73) 1,3-Dichlorobenzene	18.401	18.401	0.997	146	985	N.D.	
74) 1,4-Dichlorobenzene	18.496	18.496	1.002	146	1326	N.D.	
75) n-Butylbenzene	18.805	18.805	1.019	91	383	N.D.	
76) 1,2-Dichlorobenzene	18.900	18.899	1.024	146	635	N.D.	
77) 1,2-Dibromo-3-chloropr...	0.000	19.718	0.000		0	N.D.	
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	772	N.D.	
79) Hexachlorobutadiene	0.000	20.868	0.000		0	N.D.	
80) Naphthalene	21.022	21.022	1.139	128	2288	N.D.	
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156	180	830	N.D.	
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.	
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.	
85) Acrolein	0.000	7.646	0.000		0	N.D.	
86) Trichlorotrifluoroethane	0.000	7.930	0.000		0	N.D.	
87) Isopropyl Alcohol	0.000	8.191	0.000		0	N.D.	
88) Allyl chloride	8.500	8.559	0.683	41	1248	N.D.	
89) tert-Butyl Alcohol	8.950	8.938	0.720	59	229	N.D.	
90) Acrylonitrile	0.000	9.164	0.000		0	N.D.	
91) Isopropyl ether	0.000	10.077	0.000		0	N.D.	
92) 2-Chloro-1,3-butadiene	0.000	10.124	0.000		0	N.D.	
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.	
94) Ethyl acetate	10.931	10.919	0.879	43	137	N.D.	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z107B2.D
Acq On : 15 Feb 2010 9:34 am
Operator : CDS1
InstName : VOA2
Sample : |1202044278|952586|1|VOAF|1|VOA8260BS|
Misc : BLANK 5G - SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 15 10:29:03 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

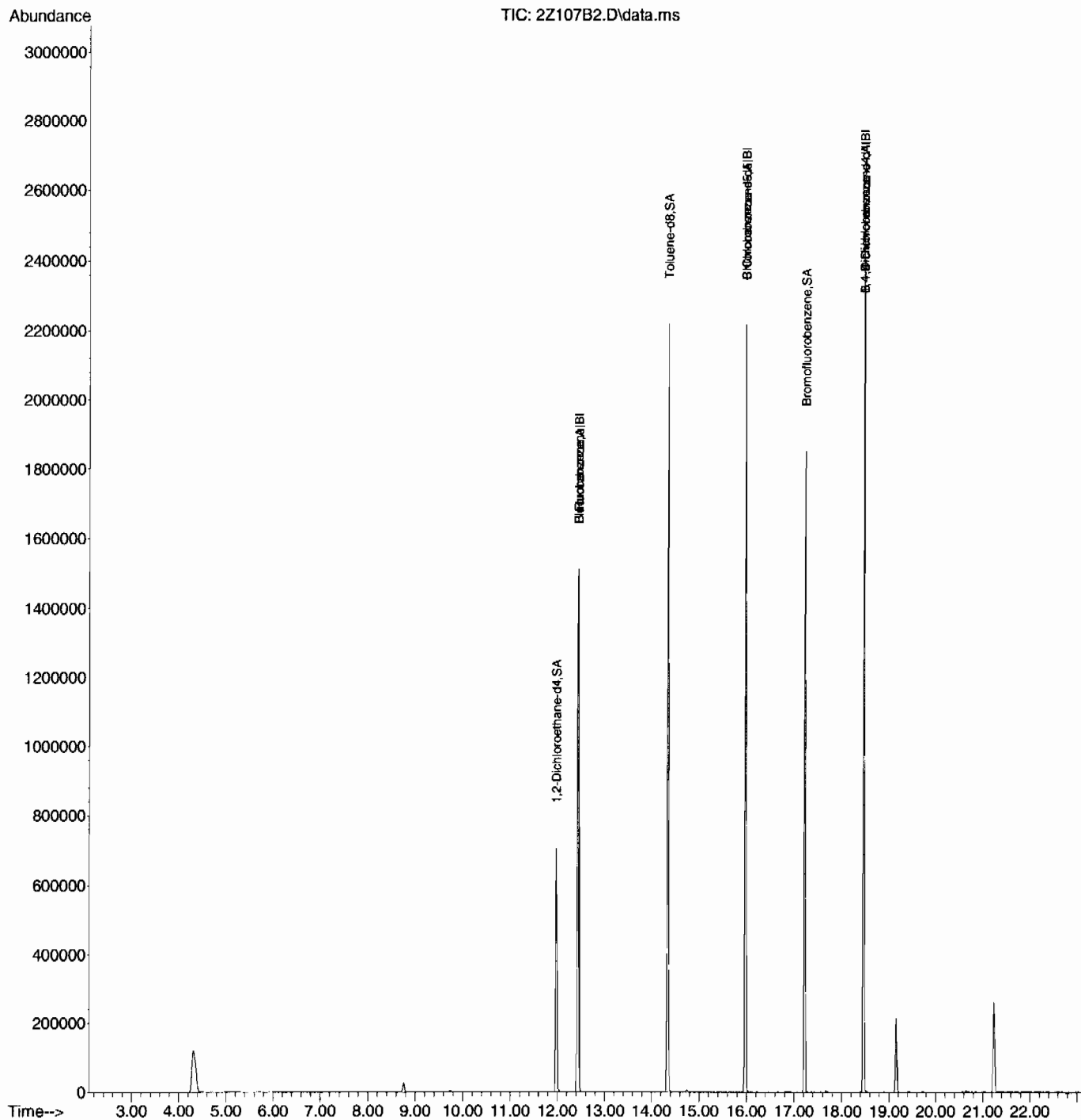
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	0.000	10.907	0.000		0	N.D.	
96) Methacrylonitrile	0.000	11.144	0.000		0	N.D.	
97) Tetrahydrofuran	11.286	11.275	0.908	42	728	N.D.	
98) Isobutyl alcohol	11.974	11.856	0.963	41	117	N.D.	
99) Methyl tert-amyl ether	0.000	12.211	0.000		0	N.D.	
100) Methyl methacrylate	0.000	13.243	0.000		0	N.D.	
101) 1,4-Dioxane	0.000	13.314	0.000		0	N.D.	
102) 2-Nitropropane	0.000	13.729	0.000		0	N.D.	
104) Ethyl methacrylate	0.000	14.678	0.000		0	N.D.	
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	17.073	17.073	0.925	53	393	N.D.	
108) Cyclohexanone	0.000	17.156	0.000		0	N.D.	
109) trans-1,4-Dichloro-2-b...	17.370	17.370	0.941	53	682	N.D.	
110) Pentachloroethane	0.000	18.058	0.000		0	N.D.	
111) Benzyl chloride	18.603	18.603	1.008	91	1621	N.D.	
112) bis(2-Chloroisopropyl)...	19.018	19.018	1.030	45	129	N.D.	

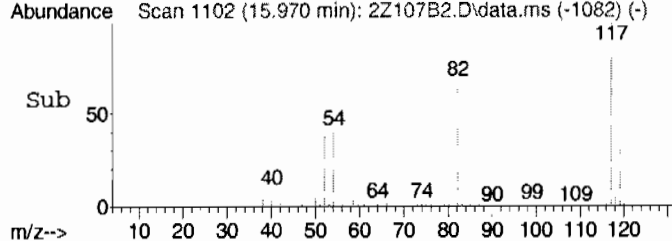
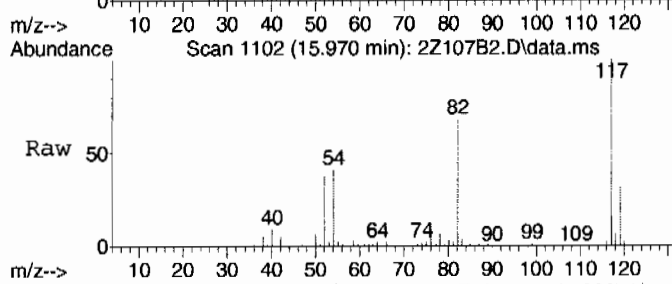
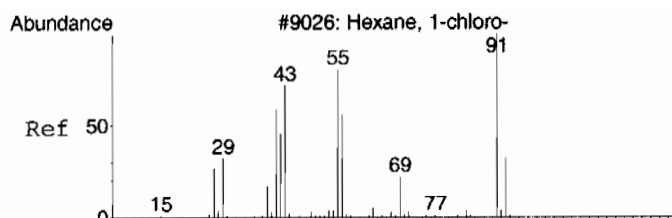
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z107B2.D
Acq On : 15 Feb 2010 9:34 am
Operator : CDS1
InstName : VOA2
Sample : |1202044278|952586|1|VOAF|1|VOA8260BS|
Misc : BLANK 5G - SOIL
ALS Vial : 7 Sample Multiplier: 1

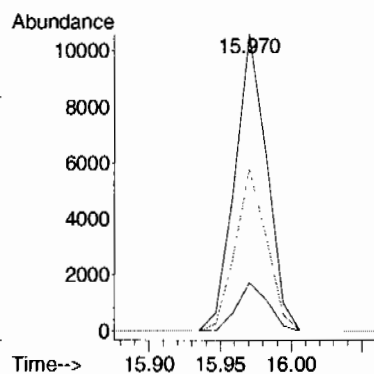
Quant Time: Feb 15 10:29:03 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE





#106 BEFORE analyst DELETION
1-Chlorohexane
Concen: 2.06 ug/L
RT: 15.970 min Scan# 1102
Delta R.T. 0.059 min
Lab File: 2Z107B2.D
Acq: 15 Feb 2010 9:34 am

Tgt Ion	Ratio	Lower	Upper
55	100		
91	15.6	66.2	126.2#
56	53.4	26.7	86.7



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z107B2.D
Acq On : 15 Feb 2010 9:34 am
Operator : CDS1
Sample : |1202044278|952586|1|VOAF|1|VOA8260BS|
Misc : BLANK 5G - SOIL
ALS Vial : 7 Sample Multiplier: 1

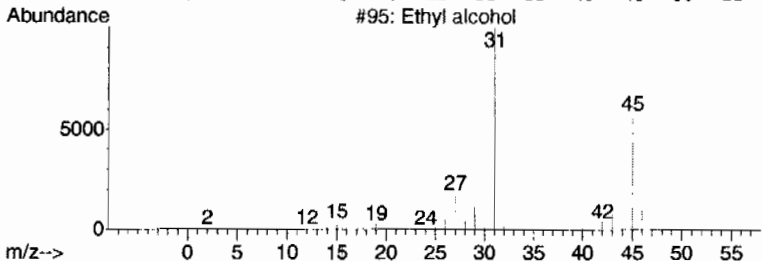
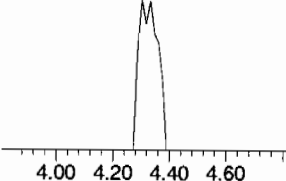
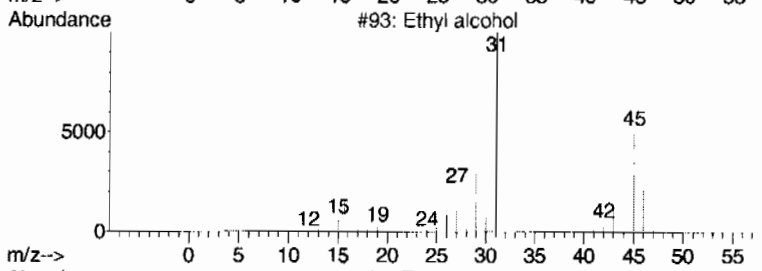
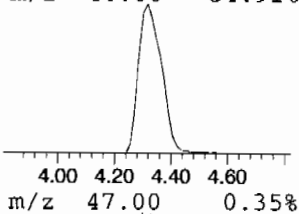
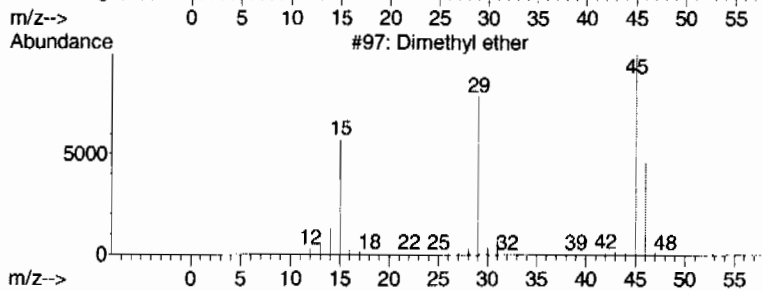
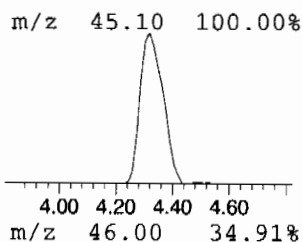
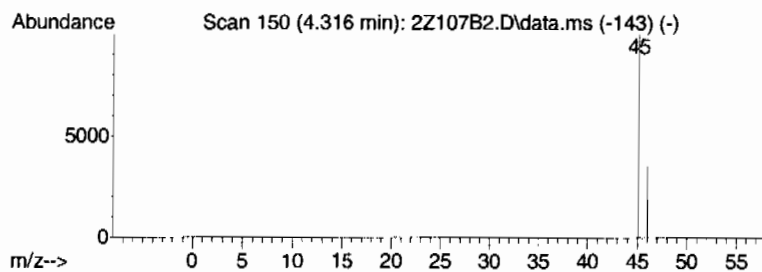
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.316	10.84 ug/L	675486	Fluorobenzene	12.437

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dimethyl ether	46	C2H6O	000115-10-6	5
2	Ethyl alcohol	46	C2H6O	000064-17-5	4
3	Ethyl alcohol	46	C2H6O	000064-17-5	4
4	Ethyl alcohol	46	C2H6O	000064-17-5	4
5	Formic acid	46	CH2O2	000064-18-6	2



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22107B2.D
Acq On : 15 Feb 2010 9:34 am
Operator : CDS1
Sample : |1202044278|952586|1|VOAF|1|VOA8260BS|
Misc : BLANK 5G - SOIL
ALS Vial : 7 Sample Multiplier: 1

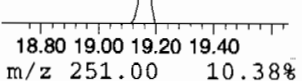
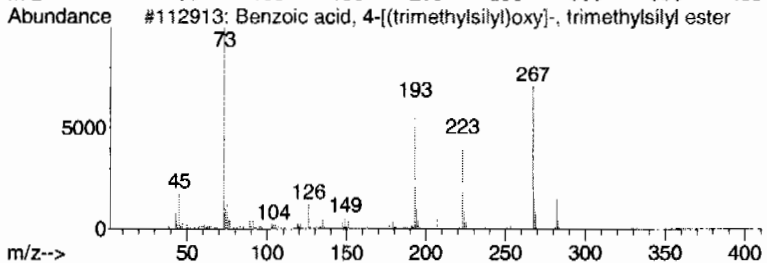
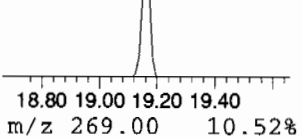
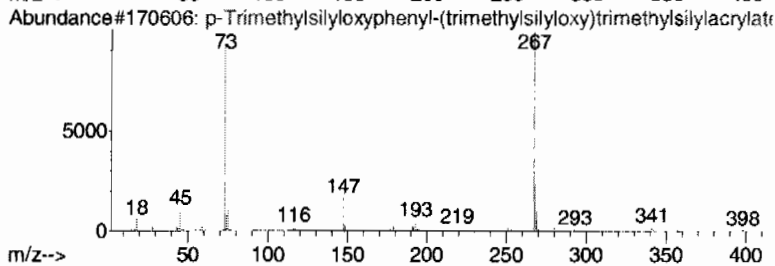
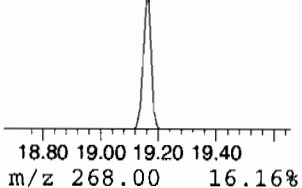
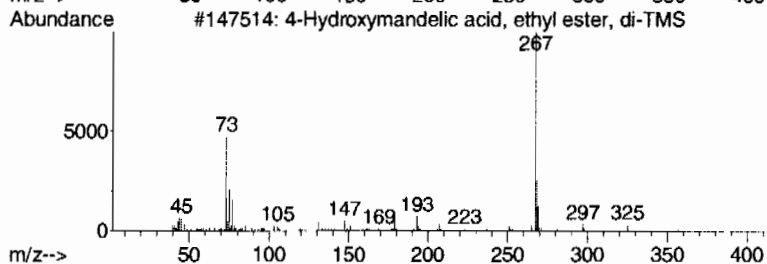
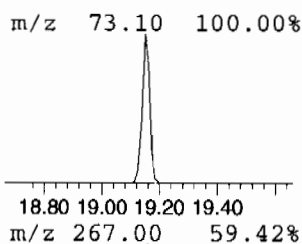
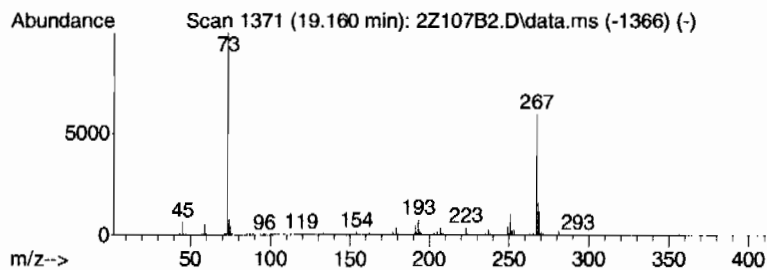
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Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 2 unknown siloxane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.160	5.40 ug/L	432127	B 1,4-Dichlorobenzene-d4	18.461

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4-Hydroxymandelic acid, ethyl es...	340	C16H28O4Si2	1000071-53-3	50
2		p-Trimethylsilyloxyphenyl-(trime...	398	C18H34O4Si3	1000079-05-1	45
3		Benzoic acid, 4-[(trimethylsilyl...]	282	C13H22O3Si2	002078-13-9	45
4		3-Hydroxymandelic acid, ethyl es...	340	C16H28O4Si2	1000071-88-9	45
5		Benzeneethanamine, N-[(pentafluo...	475	C21H26F5NO2Si2	055429-85-1	45



Library Search Compound Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z107B2.D
Acq On : 15 Feb 2010 9:34 am
Operator : CDS1
Sample : |1202044278|952586|1|VOAF|1|VOA8260BS|
Misc : BLANK 5G - SOIL
ALS Vial : 7 Sample Multiplier: 1

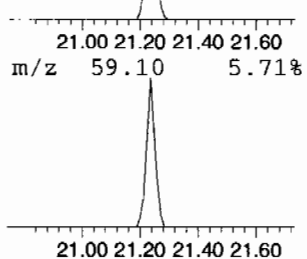
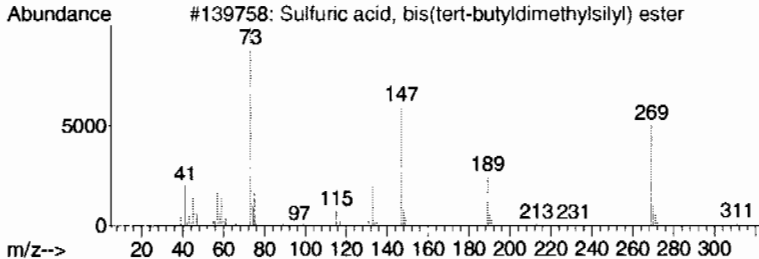
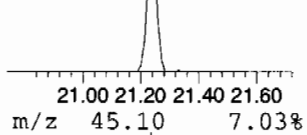
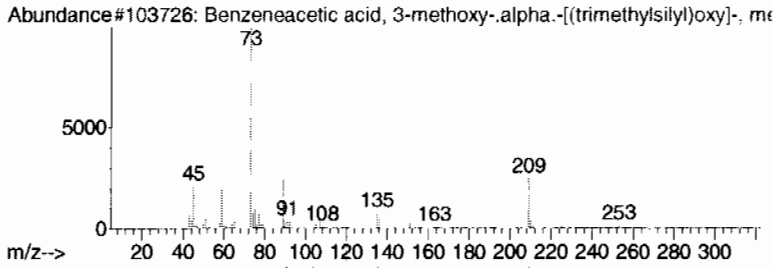
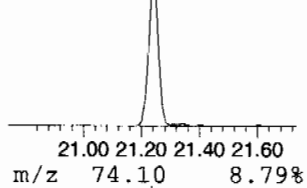
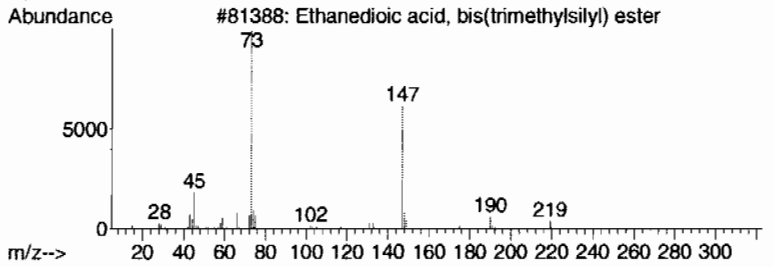
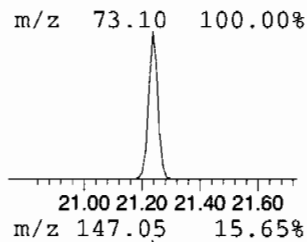
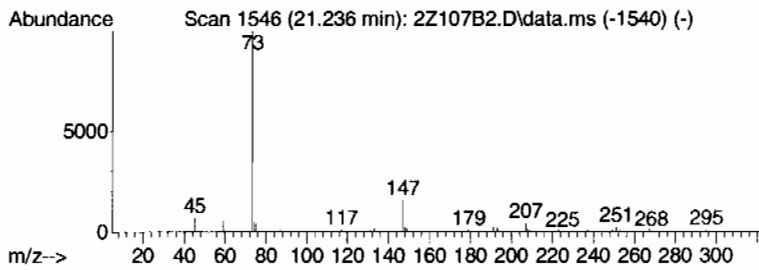
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

Peak Number 3 unknown siloxane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.236	7.35 ug/L	588024	B 1,4-Dichlorobenzene-d4	18.461

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanedioic acid, bis(trimethyls...	234	C8H18O4Si2	018294-04-7	47
2	Benzeneacetic acid, 3-methoxy-.a...	268	C13H20O4Si	055590-93-7	35
3	Sulfuric acid, bis(tert-butyldim...	326	C12H30O4SSi2	085207-88-1	28
4	3,8-Dioxa-2,9-disiladecane, 2,2,...	438	C18H46O4Si4	074779-61-6	28
5	2-Phenyl-2-trimethylsilyloxyprop...	310	C15H26O3Si2	082326-12-3	28



Tentatively Identified Compound (LSC) summary
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z107B2.D
Acq On : 15 Feb 2010 9:34 am
Operator : CDS1
Sample : |1202044278|952586|1|VOAF|1|VOA8260BS|
Misc : BLANK 5G - SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: default.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown	4.316	10.8	ug/L	675486	1	12.437	3115610	50.0
unknown siloxane	19.160	5.4	ug/L	432127	6	18.461	3998720	50.0
unknown siloxane	21.236	7.3	ug/L	588024	6	18.461	3998720	50.0

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 1202041686
Client Sample: QC for batch 952579
Client ID: LCS for batch 952579
Batch ID: 952586
Run Date: 02/12/2010 19:18
Prep Date: 02/12/2010 14:00
Data File: 021210V2.b\2Y527.D

Client: LANL010
Method: SW846 8260B
Inst: VOA2.1
Analyst: CDS1
Aliquot: 5 g
Column: DB-624

Matrix: SOIL
Project: QC
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane		50.4	ug/kg	0.340	1.00
74-87-3	Chloromethane		45.2	ug/kg	0.300	1.00
75-01-4	Vinyl chloride		49.2	ug/kg	0.300	1.00
74-83-9	Bromomethane		70.3	ug/kg	0.300	1.00
75-00-3	Chloroethane		46.5	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane		49.9	ug/kg	0.300	1.00
67-64-1	Acetone		254	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene		47.1	ug/kg	0.300	1.00
74-88-4	Iodomethane		224	ug/kg	1.60	5.00
75-09-2	Methylene chloride		42.3	ug/kg	2.00	5.00
75-15-0	Carbon disulfide		249	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene		47.7	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane		47.1	ug/kg	0.300	1.00
78-93-3	2-Butanone		250	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene		47.7	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane		52.1	ug/kg	0.300	1.00
67-66-3	Chloroform		46.6	ug/kg	0.300	1.00
74-97-5	Bromochloromethane		44.9	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane		50.1	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene		50.9	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride		51.3	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane		45.9	ug/kg	0.300	1.00
71-43-2	Benzene		46.6	ug/kg	0.300	1.00
79-01-6	Trichloroethylene		48.2	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane		47.1	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane		49.5	ug/kg	0.300	1.00
74-95-3	Dibromomethane		45.6	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone		259	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene		50.9	ug/kg	0.300	1.00
108-88-3	Toluene		46.8	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene		52.1	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane		45.6	ug/kg	0.300	1.00
591-78-6	2-Hexanone		273	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane		46.2	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene		48.1	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane		50.5	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane		46.5	ug/kg	0.300	1.00
108-90-7	Chlorobenzene		46.6	ug/kg	0.300	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
 Lab Sample ID: 1202041686
 Client Sample: QC for batch 952579
 Client ID: LCS for batch 952579
 Batch ID: 952586
 Run Date: 02/12/2010 19:18
 Prep Date: 02/12/2010 14:00
 Data File: 021210V2.b\2Y527.D

Client: LANL010
 Method: SW846 8260B
 Inst: VOA2.1
 Analyst: CDS1
 Aliquot: 5 g
 Column: DB-624

Matrix: SOIL
 Project: QC
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene		48.5	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes		96.5	ug/kg	0.300	2.00
95-47-6	o-Xylene		48.0	ug/kg	0.300	1.00
100-42-5	Styrene		51.3	ug/kg	0.300	1.00
75-25-2	Bromoform		51.3	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane		46.6	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane		44.5	ug/kg	0.300	1.00
108-86-1	Bromobenzene		46.4	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene		50.2	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene		48.4	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene		50.8	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene		49.9	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene		48.8	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene		49.7	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene		50.0	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene		50.9	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene		51.9	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene		47.0	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene		46.9	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene		53.5	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane		43.4	ug/kg	0.300	1.00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.00	ug/kg	1.60	5.00
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane		48.7	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene		46.4	ug/kg	0.300	1.00

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y527.D
Acq On : 12 Feb 2010 7:18 pm
Operator : CDS1
InstName : VOA2
Sample : |1202041686|952586|1|VOAF|1|VOA8260BS|
Misc : LCS 5G - SOIL MIX[A] 0126-01D/0210-01
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 15 07:36:41 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev(Min)
1) Fluorobenzene	12.413	12.437	1.000	96	1419067	50.00	ug/L	-0.02
41) Chlorobenzene-d5	15.971	15.970	1.000	117	1101862	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	653618	50.00	ug/L	0.00
82) B Fluorobenzene	12.413	12.437	1.000	96	1419041	50.00	ug/L	-0.02
103) B Chlorobenzene-d5	15.971	15.971	1.000	117	1101862	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	653669	50.00	ug/L	0.00
System Monitoring Compounds								Dev(Min)
29) 1,2-Dichloroethane-d4	11.962	11.986	0.964	65	657536	49.32	ug/L	-0.02
Spiked Amount	50.000	Range	66 - 134	Recovery	= 98.64%			
43) Toluene-d8	14.334	14.346	0.898	98	1418119	48.14	ug/L	-0.01
Spiked Amount	50.000	Range	71 - 128	Recovery	= 96.28%			
61) Bromofluorobenzene	17.216	17.227	0.933	95	678306	48.36	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 130	Recovery	= 96.72%			
Target Compounds								QValue
2) Dichlorodifluoromethane	4.687	4.702	0.378	85	353148	50.38	ug/L	100
3) Chloromethane	4.999	4.999	0.403	50	376413	45.15	ug/L	99
4) Vinyl chloride	5.252	5.266	0.423	62	374459	49.19	ug/L	100
5) Bromomethane	5.980	5.980	0.482	94	216734	70.26	ug/L	100
6) Chloroethane	6.211	6.223	0.500	64	237522	46.49	ug/L	100
7) Trichlorofluoromethane	6.828	6.839	0.550	101	672162	49.87	ug/L	100
8) Ethyl ether	7.385	7.409	0.595	59	279580	45.29	ug/L	98
9) Acetone	7.907	7.930	0.637	43	1449849	254.01	ug/L	99
10) 1,1-Dichloroethylene	7.859	7.883	0.633	61	631130	47.06	ug/L	99
11) Iodomethane	8.144	8.167	0.656	142	2303728	224.07	ug/L	98
12) Acetonitrile	8.417	8.452	0.678	41	1134905	1112.20	ug/L	100
13) Methyl acetate	8.547	8.571	0.689	43	1408427	226.21	ug/L	99
14) Carbon disulfide	8.286	8.322	0.668	76	4804119	248.63	ug/L	100
15) Methylene chloride	8.749	8.772	0.705	84	304860	42.28	ug/L	96
16) tert-Butyl methyl ether	9.247	9.282	0.745	73	933006	46.38	ug/L	100
17) trans-1,2-Dichloroethy...	9.247	9.270	0.745	61	576793	47.70	ug/L	98
18) Vinyl acetate	9.982	10.017	0.804	43	3794527	290.24	ug/L	100
19) 1,1-Dichloroethane	9.935	9.958	0.800	63	653109	47.07	ug/L	99
20) 2-Butanone	10.812	10.836	0.871	43	1405681	250.30	ug/L	99
21) cis-1,2-Dichloroethylene	10.824	10.848	0.872	61	645387	47.71	ug/L	98
22) 2,2-Dichloropropane	10.848	10.871	0.874	77	584342	52.14	ug/L	100
23) Bromochloromethane	11.180	11.203	0.901	128	151609	44.88	ug/L	96
24) Chloroform	11.275	11.298	0.908	83	682500	46.58	ug/L	100
25) 1,1,1-Trichloroethane	11.583	11.606	0.933	97	706174	50.05	ug/L	100
26) Cyclohexane	11.690	11.713	0.942	56	684567	51.54	ug/L	100
27) 1,1-Dichloropropene	11.796	11.820	0.950	75	478528	50.92	ug/L	99
28) Carbon tetrachloride	11.820	11.844	0.952	117	668026	51.27	ug/L	100
30) 1,2-Dichloroethane	12.069	12.093	0.972	62	671066	45.90	ug/L	100
31) Benzene	12.081	12.093	0.973	78	1087106	46.55	ug/L	99
32) Cyclohexene	12.223	12.247	0.985	67	623421	49.80	ug/L	99
33) n-Butyl alcohol	12.674	12.697	1.021	56	1195393	4607.43	ug/L	99
34) Trichloroethylene	12.887	12.899	1.038	95	355605	48.15	ug/L	100
35) 1,2-Dichloropropane	13.160	13.172	1.060	63	321054	47.09	ug/L	99
36) Methylcyclohexane	13.172	13.184	1.061	83	541053	50.81	ug/L	99
37) Dibromomethane	13.302	13.314	1.072	93	206707	45.63	ug/L	99

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y527.D
Acq On : 12 Feb 2010 7:18 pm
Operator : CDS1
InstName : VOA2
Sample : |1202041686|952586|1|VOAF|1|VOA8260BS|
Misc : LCS 5G - SOIL MIX[A] 0126-01D/0210-01
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 15 07:36:41 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
38) Bromodichloromethane	13.468	13.480	1.085	83	530024	49.49	ug/L	99
39) 2-Chloroethylvinyl ether	13.777	13.800	1.110	63	909747	210.66	ug/L	100
40) cis-1,3-Dichloropropylene	13.990	14.002	1.127	75	517766	50.86	ug/L	99
42) 4-Methyl-2-pentanone	14.132	14.144	0.885	58	759064	259.26	ug/L	98
44) Toluene	14.417	14.429	0.903	91	1249295	46.80	ug/L	99
45) trans-1,3-Dichloroprop...	14.607	14.618	0.915	75	550482	52.09	ug/L	96
46) 1,1,2-Trichloroethane	14.832	14.844	0.929	83	214982	45.64	ug/L	100
47) 2-Hexanone	15.069	15.069	0.944	43	2181866	272.50	ug/L	100
48) 1,3-Dichloropropane	15.034	15.045	0.941	76	471349	46.24	ug/L	92
49) Tetrachloroethylene	15.057	15.069	0.943	164	262540	48.06	ug/L	99
50) Dibromochloromethane	15.306	15.318	0.958	129	385579	50.48	ug/L	99
51) 1,2-Dibromoethane	15.472	15.472	0.969	107	293937	46.46	ug/L	99
52) Chlorobenzene	16.006	16.006	1.002	112	846687	46.58	ug/L	99
53) 1,1,1,2-Tetrachloroethane	16.065	16.077	1.006	131	360524	48.67	ug/L	99
54) Ethylbenzene	16.089	16.101	1.007	91	1628190	48.48	ug/L	100
55) m,p-Xylenes	16.208	16.219	1.015	106	1166967	96.48	ug/L	99
56) o-Xylene	16.658	16.658	1.043	106	573602	48.03	ug/L	100
57) Styrene	16.658	16.658	1.043	104	960857	51.32	ug/L	98
59) Bromoform	16.895	16.895	0.915	173	259855	51.27	ug/L	99
60) Isopropylbenzene	17.038	17.038	0.923	105	1709903	50.75	ug/L	100
62) 1,1,2,2-Tetrachloroethane	17.311	17.310	0.938	83	368066	46.59	ug/L	100
63) 1,2,3-Trichloropropane	17.394	17.393	0.942	110	126036	44.52	ug/L #	92
64) Bromobenzene	17.417	17.429	0.943	156	386880	46.37	ug/L	99
65) n-Propylbenzene	17.477	17.476	0.947	91	2040684	50.24	ug/L	100
66) 1,3,5-Trimethylbenzene	17.643	17.642	0.956	105	1499146	49.89	ug/L	99
67) 2-Chlorotoluene	17.607	17.607	0.954	126	370572	48.38	ug/L	99
68) 4-Chlorotoluene	17.714	17.714	0.960	91	1323207	48.80	ug/L	100
69) tert-Butylbenzene	18.010	18.010	0.976	134	273257	49.69	ug/L	98
70) 1,2,4-Trimethylbenzene	18.046	18.057	0.978	105	1537574	49.98	ug/L	99
71) sec-Butylbenzene	18.236	18.235	0.988	105	1907995	50.85	ug/L	99
72) 4-Isopropyltoluene	18.366	18.366	0.995	119	1560775	51.85	ug/L	99
73) 1,3-Dichlorobenzene	18.402	18.401	0.997	146	770927	46.98	ug/L	99
74) 1,4-Dichlorobenzene	18.485	18.496	1.001	146	786244	46.92	ug/L	100
75) n-Butylbenzene	18.805	18.805	1.019	91	1582695	53.45	ug/L	100
76) 1,2-Dichlorobenzene	18.900	18.899	1.024	146	743088	46.43	ug/L	99
77) 1,2-Dibromo-3-chloropr...	19.706	19.718	1.067	157	89736	43.41	ug/L	98
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	521474	49.77	ug/L	100
79) Hexachlorobutadiene	20.868	20.868	1.130	225	351484	50.26	ug/L	99
80) Naphthalene	21.022	21.022	1.139	128	1284496	48.28	ug/L	100
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156	180	495376	49.40	ug/L	100
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.		
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.		
85) Acrolein	7.575	7.646	0.610		0m	N.D.	d	
86) Trichlorotrifluoroethane	7.883	7.930	0.635		0m	N.D.	d	
87) Isopropyl Alcohol	8.286	8.191	0.668		0m	N.D.	d	
88) Allyl chloride	0.000	8.559	0.000		0	N.D.		
89) tert-Butyl Alcohol	8.915	8.938	0.718		0m	N.D.	d	
90) Acrylonitrile	9.247	9.164	0.745		0m	N.D.	d	
91) Isopropyl ether	10.184	10.077	0.820		0m	N.D.	d	
92) 2-Chloro-1,3-butadiene	10.089	10.124	0.813		0m	N.D.	d	
93) Ethyl tert-butyl ether	10.611	10.634	0.855		0m	N.D.	d	
94) Ethyl acetate	10.812	10.919	0.871		0m	N.D.	d	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y527.D
Acq On : 12 Feb 2010 7:18 pm
Operator : CDS1
InstName : VOA2
Sample : |1202041686|952586|1|VOAF|1|VOA8260BS|
Misc : LCS 5G - SOIL MIX[A] 0126-01D/0210-01
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 15 07:36:41 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	10.812	10.907	0.871		0m	N.D.	d
96) Methacrylonitrile	11.120	11.144	0.896		0m	N.D.	d
97) Tetrahydrofuran	11.263	11.275	0.907		0m	N.D.	d
98) Isobutyl alcohol	11.962	11.856	0.964		0m	N.D.	d
99) Methyl tert-amyl ether	12.223	12.211	0.985		0m	N.D.	d
100) Methyl methacrylate	13.160	13.243	1.060		0m	N.D.	d
101) 1,4-Dioxane	13.302	13.314	1.072		0m	N.D.	d
102) 2-Nitropropane	13.777	13.729	1.110		0m	N.D.	d
104) Ethyl methacrylate	14.666	14.678	0.918		0m	N.D.	d
106) 1-Chlorohexane	15.971	15.911	0.865		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	17.038	17.073	0.923		0m	N.D.	d
108) Cyclohexanone	17.156	17.156	0.929		0m	N.D.	d
109) trans-1,4-Dichloro-2-b...	17.370	17.370	0.941		0m	N.D.	d
110) Pentachloroethane	18.058	18.058	0.978		0m	N.D.	d
111) Benzyl chloride	18.603	18.603	1.008		0m	N.D.	d
112) bis(2-Chloroisopropyl)...	19.018	19.018	1.030		0m	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620		Matrix: SOIL
Lab Sample ID: 1202041687		
Client Sample: QC for batch 952579	Client: LANL010	Project: QC
Client ID: LCS for batch 952579	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.1	Dilution: 1
Run Date: 02/12/2010 19:47	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/12/2010 14:00	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021210V2.b\2Y528SLS.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.00	ug/kg	0.340	1.00
74-87-3	Chloromethane	U	1.00	ug/kg	0.300	1.00
75-01-4	Vinyl chloride	U	1.00	ug/kg	0.300	1.00
74-83-9	Bromomethane	U	1.00	ug/kg	0.300	1.00
75-00-3	Chloroethane	U	1.00	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/kg	0.300	1.00
67-64-1	Acetone	U	5.00	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
74-88-4	Iodomethane	U	5.00	ug/kg	1.60	5.00
75-09-2	Methylene chloride	U	5.00	ug/kg	2.00	5.00
75-15-0	Carbon disulfide	U	5.00	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/kg	0.300	1.00
78-93-3	2-Butanone	U	5.00	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
67-66-3	Chloroform	U	1.00	ug/kg	0.300	1.00
74-97-5	Bromochloromethane	U	1.00	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene	U	1.00	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/kg	0.300	1.00
71-43-2	Benzene	U	1.00	ug/kg	0.300	1.00
79-01-6	Trichloroethylene	U	1.00	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/kg	0.300	1.00
74-95-3	Dibromomethane	U	1.00	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
108-88-3	Toluene	U	1.00	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/kg	0.300	1.00
591-78-6	2-Hexanone	U	5.00	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane	U	1.00	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene	U	1.00	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane	U	1.00	ug/kg	0.300	1.00
108-90-7	Chlorobenzene	U	1.00	ug/kg	0.300	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620

Matrix: SOIL

Lab Sample ID: 1202041687

Client Sample: QC for batch 952579

Client: LANL010

Project: QC

Client ID: LCS for batch 952579

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 952586

Inst: VOA2.I

Dilution: 1

Run Date: 02/12/2010 19:47

Analyst: CDS1

Purge Vol: 5 mL

Prep Date: 02/12/2010 14:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 021210V2.b\2Y528SLS.D

Column: DB-624

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.00	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes	U	2.00	ug/kg	0.300	2.00
95-47-6	o-Xylene	U	1.00	ug/kg	0.300	1.00
100-42-5	Styrene	U	1.00	ug/kg	0.300	1.00
75-25-2	Bromoform	U	1.00	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane	U	1.00	ug/kg	0.300	1.00
108-86-1	Bromobenzene	U	1.00	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene	U	1.00	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene	U	1.00	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene	U	1.00	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene	U	1.00	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene	U	1.00	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene	U	1.00	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/kg	0.300	1.00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane		216	ug/kg	1.60	5.00
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y528SLS.D
Acq On : 12 Feb 2010 7:47 pm
Operator : CDS1
InstName : VOA2
Sample : |1202041687|952586|1|VOAF|1|VOA8260BS|
Misc : LCS 5G - SOIL MIX[B] 0118-08B
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 15 07:37:13 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev (Min)
1) Fluorobenzene	12.425	12.437	1.000	96	1491551	50.00	ug/L	-0.01
41) Chlorobenzene-d5	15.971	15.970	1.000	117	1123786	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	651622	50.00	ug/L	0.00
82) B Fluorobenzene	12.425	12.437	1.000	96	1491271	50.00	ug/L	-0.01
103) B Chlorobenzene-d5	15.971	15.971	1.000	117	1123786	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	651820	50.00	ug/L	0.00
System Monitoring Compounds								Dev (Min)
29) 1,2-Dichloroethane-d4	11.974	11.986	0.964	65	677283	48.33	ug/L	-0.01
Spiked Amount 50.000	Range 66	- 134	Recovery	=	96.66%			
43) Toluene-d8	14.346	14.346	0.898	98	1455416	48.44	ug/L	0.00
Spiked Amount 50.000	Range 71	- 128	Recovery	=	96.88%			
61) Bromofluorobenzene	17.216	17.227	0.933	95	693667	49.60	ug/L	-0.01
Spiked Amount 50.000	Range 65	- 130	Recovery	=	99.20%			
Target Compounds								QValue
2) Dichlorodifluoromethane	4.687	4.702	0.377		0m	N.D.	d	
3) Chloromethane	4.984	4.999	0.401		0m	N.D.	d	
4) Vinyl chloride	5.237	5.266	0.421		0m	N.D.	d	
5) Bromomethane	5.980	5.980	0.481		0m	N.D.	d	
6) Chloroethane	6.211	6.223	0.500		0m	N.D.	d	
7) Trichlorofluoromethane	6.816	6.839	0.549		0m	N.D.	d	
8) Ethyl ether	7.409	7.409	0.596		0m	N.D.	d	
9) Acetone	7.907	7.930	0.636		0m	N.D.	d	
10) 1,1-Dichloroethylene	7.871	7.883	0.634		0m	N.D.	d	
11) Iodomethane	8.156	8.167	0.656		0m	N.D.	d	
12) Acetonitrile	8.547	8.452	0.688		0m	N.D.	d	
13) Methyl acetate	8.571	8.571	0.690		0m	N.D.	d	
14) Carbon disulfide	8.298	8.322	0.668		0m	N.D.	d	
15) Methylene chloride	8.761	8.772	0.705		0m	N.D.	d	
16) tert-Butyl methyl ether	9.270	9.282	0.746		0m	N.D.	d	
17) trans-1,2-Dichloroethy...	9.259	9.270	0.745		0m	N.D.	d	
18) Vinyl acetate	10.006	10.017	0.805		0m	N.D.	d	
19) 1,1-Dichloroethane	9.946	9.958	0.801		0m	N.D.	d	
20) 2-Butanone	10.907	10.836	0.878		0m	N.D.	d	
21) cis-1,2-Dichloroethylene	10.836	10.848	0.872		0m	N.D.	d	
22) 2,2-Dichloropropane	10.860	10.871	0.874		0m	N.D.	d	
23) Bromochloromethane	11.192	11.203	0.901		0m	N.D.	d	
24) Chloroform	11.286	11.298	0.908		0m	N.D.	d	
25) 1,1,1-Trichloroethane	11.595	11.606	0.933		0m	N.D.	d	
26) Cyclohexane	11.690	11.713	0.941		0m	N.D.	d	
27) 1,1-Dichloropropene	11.808	11.820	0.950		0m	N.D.	d	
28) Carbon tetrachloride	11.832	11.844	0.952		0m	N.D.	d	
30) 1,2-Dichloroethane	12.081	12.093	0.972		0m	N.D.	d	
31) Benzene	12.081	12.093	0.972		0m	N.D.	d	
32) Cyclohexene	12.235	12.247	0.985		0m	N.D.	d	
33) n-Butyl alcohol	12.698	12.697	1.022		0m	N.D.	d	
34) Trichloroethylene	12.899	12.899	1.038		0m	N.D.	d	
35) 1,2-Dichloropropane	13.172	13.172	1.060		0m	N.D.	d	
36) Methylcyclohexane	13.172	13.184	1.060		0m	N.D.	d	
37) Dibromomethane	13.314	13.314	1.072		0m	N.D.	d	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y528SLS.D
Acq On : 12 Feb 2010 7:47 pm
Operator : CDS1
InstName : VOA2
Sample : |1202041687|952586|1|VOAF|1|VOA8260BS|
Misc : LCS 5G - SOIL MIX[B] 0118-08B
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 15 07:37:13 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
38) Bromodichloromethane	13.480	13.480	1.085		0m	N.D.	d
39) 2-Chloroethylvinyl ether	13.789	13.800	1.110		0m	N.D.	d
40) cis-1,3-Dichloropropylene	14.002	14.002	1.127		0m	N.D.	d
42) 4-Methyl-2-pentanone	14.144	14.144	0.886		0m	N.D.	d
44) Toluene	14.417	14.429	0.903		0m	N.D.	d
45) trans-1,3-Dichloroprop...	14.619	14.618	0.915		0m	N.D.	d
46) 1,1,2-Trichloroethane	14.844	14.844	0.929		0m	N.D.	d
47) 2-Hexanone	15.069	15.069	0.944		0m	N.D.	d
48) 1,3-Dichloropropane	15.034	15.045	0.941		0m	N.D.	d
49) Tetrachloroethylene	15.057	15.069	0.943		0m	N.D.	d
50) Dibromochloromethane	15.318	15.318	0.959		0m	N.D.	d
51) 1,2-Dibromoethane	15.472	15.472	0.969		0m	N.D.	d
52) Chlorobenzene	16.006	16.006	1.002		0m	N.D.	d
53) 1,1,1,2-Tetrachloroethane	16.065	16.077	1.006		0m	N.D.	d
54) Ethylbenzene	16.089	16.101	1.007		0m	N.D.	d
55) m,p-Xylenes	16.220	16.219	1.016		0m	N.D.	d
56) o-Xylene	16.658	16.658	1.043		0m	N.D.	d
57) Styrene	16.658	16.658	1.043		0m	N.D.	d
59) Bromoform	16.895	16.895	0.915		0m	N.D.	d
60) Isopropylbenzene	17.038	17.038	0.923		0m	N.D.	d
62) 1,1,2,2-Tetrachloroethane	17.311	17.310	0.938		0m	N.D.	d
63) 1,2,3-Trichloropropane	17.394	17.393	0.942		0m	N.D.	d
64) Bromobenzene	17.429	17.429	0.944		0m	N.D.	d
65) n-Propylbenzene	17.477	17.476	0.947		0m	N.D.	d
66) 1,3,5-Trimethylbenzene	17.643	17.642	0.956		0m	N.D.	d
67) 2-Chlorotoluene	17.714	17.607	0.960		0m	N.D.	d
68) 4-Chlorotoluene	17.714	17.714	0.960		0m	N.D.	d
69) tert-Butylbenzene	18.058	18.010	0.978		0m	N.D.	d
70) 1,2,4-Trimethylbenzene	18.058	18.057	0.978		0m	N.D.	d
71) sec-Butylbenzene	18.235	18.235	0.988		0m	N.D.	d
72) 4-Isopropyltoluene	18.366	18.366	0.995		0m	N.D.	d
73) 1,3-Dichlorobenzene	18.402	18.401	0.997		0m	N.D.	d
74) 1,4-Dichlorobenzene	18.496	18.496	1.002		0m	N.D.	d
75) n-Butylbenzene	18.805	18.805	1.019		0m	N.D.	d
76) 1,2-Dichlorobenzene	18.900	18.899	1.024		0m	N.D.	d
77) 1,2-Dibromo-3-chloropr...	19.706	19.718	1.067		0m	N.D.	d
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121		0m	N.D.	d
79) Hexachlorobutadiene	20.868	20.868	1.130		0m	N.D.	d
80) Naphthalene	21.022	21.022	1.139		0m	N.D.	d
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156		0m	N.D.	d
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.	
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.	
85) Acrolein	7.622	7.646	0.613	56	223265	214.96 ug/L	97
86) Trichlorotrifluoroethane	7.907	7.930	0.636	85	707026	216.19 ug/L	98
87) Isopropyl Alcohol	8.203	8.191	0.660	45	17238	N.D.	
88) Allyl chloride	8.547	8.559	0.688	41	2874692	217.35 ug/L	99
89) tert-Butyl Alcohol	8.927	8.938	0.718	59	798	N.D.	
90) Acrylonitrile	9.152	9.164	0.737	53	606484	218.91 ug/L	99
91) Isopropyl ether	10.065	10.077	0.810	45	542	N.D.	
92) 2-Chloro-1,3-butadiene	10.101	10.124	0.813	53	644995	46.88 ug/L	94
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.	
94) Ethyl acetate	10.907	10.919	0.878	43	1660608	215.70 ug/L	99

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y528SLS.D
Acq On : 12 Feb 2010 7:47 pm
Operator : CDS1
InstName : VOA2
Sample : |1202041687|952586|1|VOAF|1|VOA8260BS|
Misc : LCS 5G - SOIL MIX[B] 0118-08B
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 15 07:37:13 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

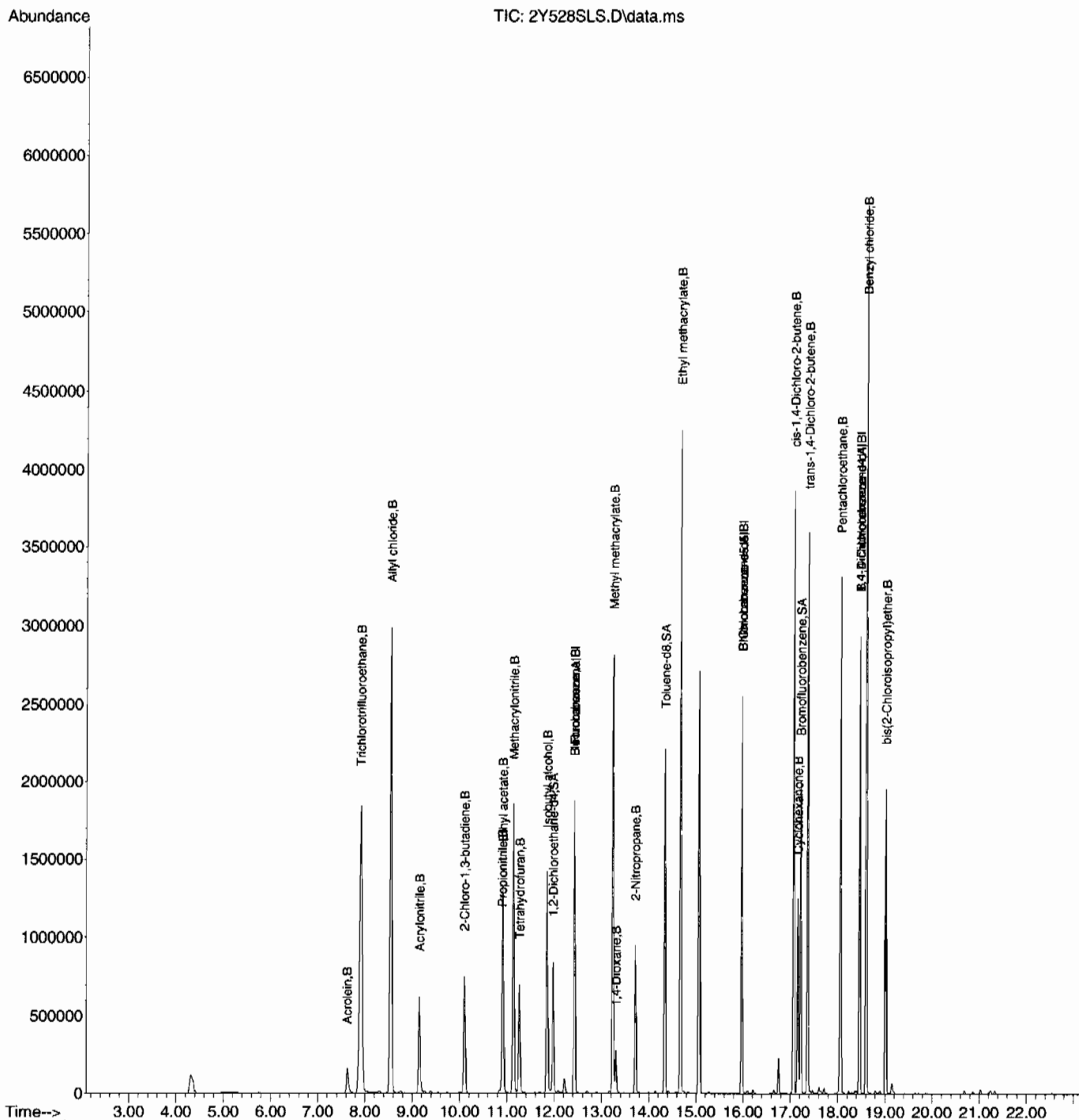
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
95) Propionitrile	10.895	10.907	0.877	54	237720	218.31	ug/L	100
96) Methacrylonitrile	11.132	11.144	0.896	41	1097399	225.22	ug/L	99
97) Tetrahydrofuran	11.263	11.275	0.906	42	542682	230.88	ug/L	98
98) Isobutyl alcohol	11.844	11.856	0.953	41	724738	2363.45	ug/L	98
99) Methyl tert-amyl ether	12.211	12.211	0.983	73	592	N.D.		
100) Methyl methacrylate	13.243	13.243	1.066	69	893333	228.96	ug/L	96
101) 1,4-Dioxane	13.302	13.314	1.071	88	162378	2275.24	ug/L	98
102) 2-Nitropropane	13.717	13.729	1.104	43	693752	229.12	ug/L	99
104) Ethyl methacrylate	14.666	14.678	0.918	69	1822524	238.12	ug/L	97
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d	
107) cis-1,4-Dichloro-2-butene	17.073	17.073	0.925	53	997759	287.83	ug/L	100
108) Cyclohexanone	17.156	17.156	0.929	42	426117	365.42	ug/L	96
109) trans-1,4-Dichloro-2-b...	17.370	17.370	0.941	53	958257	279.90	ug/L	98
110) Pentachloroethane	18.058	18.058	0.978	167	585732	252.81	ug/L	99
111) Benzyl chloride	18.603	18.603	1.008	91	3948717	377.28	ug/L	99
112) bis(2-Chloroisopropyl)...	19.018	19.018	1.030	45	1294405	245.99	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021210V2.b\
Data File : 2Y528SLS.D
Acq On : 12 Feb 2010 7:47 pm
Operator : CDS1
InstName : VOA2
Sample : |1202041687|952586|1|VOAF|1|VOA8260BS|
Misc : LCS 5G - SOIL MIX[B] 0118-08B
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 15 07:37:13 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE



**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620

Matrix: SOIL

Lab Sample ID: 1202044279

Client Sample: QC for batch 952579

Client: LANL010

Project: QC

Client ID: LCS for batch 952579

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 952586

Inst: VOA2.I

Dilution: 1

Run Date: 02/15/2010 08:07

Analyst: CDS1

Purge Vol: 5 mL

Prep Date: 02/15/2010 06:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 021510V2.b\2Z104LS2.D

Column: DB-624

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane		49.9	ug/kg	0.340	1.00
74-87-3	Chloromethane		47.0	ug/kg	0.300	1.00
75-01-4	Vinyl chloride		50.2	ug/kg	0.300	1.00
74-83-9	Bromomethane		57.8	ug/kg	0.300	1.00
75-00-3	Chloroethane		48.0	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane		53.0	ug/kg	0.300	1.00
67-64-1	Acetone		260	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene		49.1	ug/kg	0.300	1.00
74-88-4	Iodomethane		231	ug/kg	1.60	5.00
75-09-2	Methylene chloride		45.0	ug/kg	2.00	5.00
75-15-0	Carbon disulfide		256	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene		49.6	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane		49.3	ug/kg	0.300	1.00
78-93-3	2-Butanone		264	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene		50.9	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane		56.2	ug/kg	0.300	1.00
67-66-3	Chloroform		49.5	ug/kg	0.300	1.00
74-97-5	Bromochloromethane		46.8	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane		53.2	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene		53.4	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride		54.5	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane		48.4	ug/kg	0.300	1.00
71-43-2	Benzene		48.7	ug/kg	0.300	1.00
79-01-6	Trichloroethylene		50.0	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane		49.1	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane		52.1	ug/kg	0.300	1.00
74-95-3	Dibromomethane		48.2	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone		268	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene		53.7	ug/kg	0.300	1.00
108-88-3	Toluene		49.4	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene		55.0	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane		47.1	ug/kg	0.300	1.00
591-78-6	2-Hexanone		291	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane		47.5	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene		50.1	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane		52.6	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane		48.2	ug/kg	0.300	1.00
108-90-7	Chlorobenzene		48.7	ug/kg	0.300	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620

Matrix: SOIL

Lab Sample ID: 1202044279

Client Sample: QC for batch 952579

Client: LANL010

Project: QC

Client ID: LCS for batch 952579

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 952586

Inst: VOA2.I

Dilution: 1

Run Date: 02/15/2010 08:07

Analyst: CDS1

Purge Vol: 5 mL

Prep Date: 02/15/2010 06:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 021510V2.b\2Z104LS2.D

Column: DB-624

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene		50.9	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes		100	ug/kg	0.300	2.00
95-47-6	o-Xylene		50.0	ug/kg	0.300	1.00
100-42-5	Styrene		52.1	ug/kg	0.300	1.00
75-25-2	Bromoform		52.2	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane		47.4	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane		45.0	ug/kg	0.300	1.00
108-86-1	Bromobenzene		46.6	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene		51.6	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene		49.8	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene		52.0	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene		51.8	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene		50.3	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene		51.6	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene		52.1	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene		52.9	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene		54.5	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene		48.2	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene		48.0	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene		56.1	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane		43.4	ug/kg	0.300	1.00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.00	ug/kg	1.60	5.00
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane		51.1	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene		47.9	ug/kg	0.300	1.00

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z104LS2.D
Acq On : 15 Feb 2010 8:07 am
Operator : CDS1
InstName : VOA2
Sample : |1202044279|952586|1|VOAF|D|VOA8260BS|
Misc : LCS 5G - SOIL MIX[A] 0126-01D/0214-01
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 08:55:07 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev(Min)
1) Fluorobenzene	12.425	12.437	1.000	96	1342917	50.00	ug/L	-0.01
41) Chlorobenzene-d5	15.971	15.970	1.000	117	1044623	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	624370	50.00	ug/L	0.00
82) B Fluorobenzene	12.425	12.437	1.000	96	1342748	50.00	ug/L	-0.01
103) B Chlorobenzene-d5	15.971	15.971	1.000	117	1044623	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	624496	50.00	ug/L	0.00
System Monitoring Compounds								Dev(Min)
29) 1,2-Dichloroethane-d4	11.974	11.986	0.964	65	668564	52.99	ug/L	-0.01
Spiked Amount	50.000	Range 66 - 134	Recovery	=	105.98%			
43) Toluene-d8	14.346	14.346	0.898	98	1397262	50.03	ug/L	0.00
Spiked Amount	50.000	Range 71 - 128	Recovery	=	100.06%			
61) Bromofluorobenzene	17.228	17.227	0.933	95	652589	48.70	ug/L	0.00
Spiked Amount	50.000	Range 65 - 130	Recovery	=	97.40%			
Target Compounds	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	QValue
2) Dichlorodifluoromethane	4.687	4.702	0.377	85	331220	49.93	ug/L	100
3) Chloromethane	4.999	4.999	0.402	50	371028	47.02	ug/L	100
4) Vinyl chloride	5.252	5.266	0.423	62	361911	50.24	ug/L	100
5) Bromomethane	5.980	5.980	0.481	94	169199	57.76	ug/L	97
6) Chloroethane	6.211	6.223	0.500	64	231925	47.97	ug/L	99
7) Trichlorofluoromethane	6.828	6.839	0.550	101	675676	52.97	ug/L	99
8) Ethyl ether	7.397	7.409	0.595	59	270897	46.38	ug/L	98
9) Acetone	7.919	7.930	0.637	43	1402558	259.66	ug/L	98
10) 1,1-Dichloroethylene	7.871	7.883	0.634	61	623429	49.12	ug/L	99
11) Iodomethane	8.156	8.167	0.656	142	2243714	230.61	ug/L	97
12) Acetonitrile	8.428	8.452	0.678	41	1081277	1119.74	ug/L	100
13) Methyl acetate	8.559	8.571	0.689	43	1387870	235.55	ug/L	98
14) Carbon disulfide	8.298	8.322	0.668	76	4675462	255.69	ug/L	100
15) Methylene chloride	8.761	8.772	0.705	84	307291	45.03	ug/L	94
16) tert-Butyl methyl ether	9.259	9.282	0.745	73	906202	47.60	ug/L	99
17) trans-1,2-Dichloroethy...	9.259	9.270	0.745	61	568022	49.64	ug/L	98
18) Vinyl acetate	9.994	10.017	0.804	43	4107637	332.01	ug/L	99
19) 1,1-Dichloroethane	9.946	9.958	0.801	63	647202	49.29	ug/L	100
20) 2-Butanone	10.824	10.836	0.871	43	1403208	264.03	ug/L	98
21) cis-1,2-Dichloroethylene	10.836	10.848	0.872	61	651593	50.90	ug/L	97
22) 2,2-Dichloropropane	10.860	10.871	0.874	77	595952	56.19	ug/L	97
23) Bromochloromethane	11.192	11.203	0.901	128	149569	46.79	ug/L	94
24) Chloroform	11.286	11.298	0.908	83	685757	49.45	ug/L	99
25) 1,1,1-Trichloroethane	11.595	11.606	0.933	97	709727	53.16	ug/L	99
26) Cyclohexane	11.701	11.713	0.942	56	674534	53.67	ug/L	100
27) 1,1-Dichloropropene	11.808	11.820	0.950	75	475109	53.42	ug/L	96
28) Carbon tetrachloride	11.832	11.844	0.952	117	671709	54.47	ug/L	99
30) 1,2-Dichloroethane	12.081	12.093	0.972	62	669387	48.38	ug/L	100
31) Benzene	12.093	12.093	0.973	78	1075046	48.65	ug/L	98
32) Cyclohexene	12.235	12.247	0.985	67	615285	51.94	ug/L	98
33) n-Butyl alcohol	12.686	12.697	1.021	56	1105516	4506.05	ug/L	97
34) Trichloroethylene	12.899	12.899	1.038	95	349203	49.97	ug/L	99
35) 1,2-Dichloropropane	13.172	13.172	1.060	63	316932	49.12	ug/L	99
36) Methylcyclohexane	13.172	13.184	1.060	83	538966	53.48	ug/L	98
37) Dibromomethane	13.314	13.314	1.072	93	206650	48.20	ug/L	98

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z104LS2.D
Acq On : 15 Feb 2010 8:07 am
Operator : CDS1
InstName : VOA2
Sample : |1202044279|952586|1|VOAF|D|VOA8260BS|
Misc : LCS 5G - SOIL MIX[A] 0126-01D/0214-01
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 08:55:07 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
38) Bromodichloromethane	13.480	13.480	1.085	83	528267	52.12	ug/L	99
39) 2-Chloroethylvinyl ether	13.789	13.800	1.110	63	1036222	253.56	ug/L	100
40) cis-1,3-Dichloropropylene	14.002	14.002	1.127	75	517381	53.71	ug/L	97
42) 4-Methyl-2-pentanone	14.144	14.144	0.886	58	744888	268.36	ug/L	96
44) Toluene	14.417	14.429	0.903	91	1250045	49.39	ug/L	99
45) trans-1,3-Dichloroprop...	14.619	14.618	0.915	75	550603	54.96	ug/L	96
46) 1,1,2-Trichloroethane	14.844	14.844	0.929	83	210217	47.08	ug/L	100
47) 2-Hexanone	15.069	15.069	0.944	43	2211873	291.38	ug/L	99
48) 1,3-Dichloropropane	15.046	15.045	0.942	76	459298	47.52	ug/L	89
49) Tetrachloroethylene	15.069	15.069	0.944	164	259652	50.13	ug/L	98
50) Dibromochloromethane	15.318	15.318	0.959	129	380781	52.58	ug/L	99
51) 1,2-Dibromoethane	15.472	15.472	0.969	107	289186	48.21	ug/L	99
52) Chlorobenzene	16.006	16.006	1.002	112	838715	48.67	ug/L	99
53) 1,1,1,2-Tetrachloroethane	16.077	16.077	1.007	131	358861	51.10	ug/L	99
54) Ethylbenzene	16.101	16.101	1.008	91	1619905	50.87	ug/L	100
55) m,p-Xylenes	16.220	16.219	1.016	106	1152385	100.49	ug/L	99
56) o-Xylene	16.658	16.658	1.043	106	566281	50.01	ug/L	98
57) Styrene	16.658	16.658	1.043	104	925084	52.12	ug/L	96
59) Bromoform	16.907	16.895	0.916	173	252665	52.19	ug/L	99
60) Isopropylbenzene	17.038	17.038	0.923	105	1674522	52.03	ug/L	100
62) 1,1,2,2-Tetrachloroethane	17.311	17.310	0.938	83	357573	47.39	ug/L	100
63) 1,2,3-Trichloropropane	17.394	17.393	0.942	110	121560	44.95	ug/L #	88
64) Bromobenzene	17.429	17.429	0.944	156	371189	46.58	ug/L	95
65) n-Propylbenzene	17.477	17.476	0.947	91	2003488	51.64	ug/L	100
66) 1,3,5-Trimethylbenzene	17.643	17.642	0.956	105	1485716	51.76	ug/L	99
67) 2-Chlorotoluene	17.607	17.607	0.954	126	364173	49.78	ug/L	98
68) 4-Chlorotoluene	17.714	17.714	0.960	91	1302616	50.29	ug/L	99
69) tert-Butylbenzene	18.010	18.010	0.976	134	270887	51.57	ug/L	95
70) 1,2,4-Trimethylbenzene	18.058	18.057	0.978	105	1530432	52.07	ug/L	100
71) sec-Butylbenzene	18.247	18.235	0.988	105	1896075	52.90	ug/L	100
72) 4-Isopropyltoluene	18.378	18.366	0.996	119	1565851	54.46	ug/L	99
73) 1,3-Dichlorobenzene	18.401	18.401	0.997	146	755933	48.22	ug/L	99
74) 1,4-Dichlorobenzene	18.496	18.496	1.002	146	769070	48.04	ug/L	99
75) n-Butylbenzene	18.805	18.805	1.019	91	1587275	56.11	ug/L	100
76) 1,2-Dichlorobenzene	18.900	18.899	1.024	146	732696	47.92	ug/L	100
77) 1,2-Dibromo-3-chloropr...	19.718	19.718	1.068	157	85674	43.39	ug/L	97
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	528472	52.80	ug/L	100
79) Hexachlorobutadiene	20.868	20.868	1.130	225	351732	52.65	ug/L	99
80) Naphthalene	21.022	21.022	1.139	128	1251030	49.22	ug/L	100
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156	180	497283	51.91	ug/L	99
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.		
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.		
85) Acrolein	7.575	7.646	0.610		0m	N.D.	d	
86) Trichlorotrifluoroethane	7.919	7.930	0.637		0m	N.D.	d	
87) Isopropyl Alcohol	8.298	8.191	0.668		0m	N.D.	d	
88) Allyl chloride	0.000	8.559	0.000		0	N.D.		
89) tert-Butyl Alcohol	8.950	8.938	0.720		0m	N.D.	d	
90) Acrylonitrile	9.259	9.164	0.745		0m	N.D.	d	
91) Isopropyl ether	9.994	10.077	0.804		0m	N.D.	d	
92) 2-Chloro-1,3-butadiene	10.101	10.124	0.813		0m	N.D.	d	
93) Ethyl tert-butyl ether	10.622	10.634	0.855		0m	N.D.	d	
94) Ethyl acetate	10.824	10.919	0.871		0m	N.D.	d	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22104LS2.D
Acq On : 15 Feb 2010 8:07 am
Operator : CDS1
InstName : VOA2
Sample : |1202044279|952586|1|VOAF|D|VOA8260BS|
Misc : LCS 5G - SOIL MIX[A] 0126-01D/0214-01
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 08:55:07 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	10.824	10.907	0.871		0m	N.D.	d
96) Methacrylonitrile	11.132	11.144	0.896		0m	N.D.	d
97) Tetrahydrofuran	11.275	11.275	0.907		0m	N.D.	d
98) Isobutyl alcohol	11.974	11.856	0.964		0m	N.D.	d
99) Methyl tert-amyl ether	12.223	12.211	0.984		0m	N.D.	d
100) Methyl methacrylate	13.172	13.243	1.060		0m	N.D.	d
101) 1,4-Dioxane	13.314	13.314	1.072		0m	N.D.	d
102) 2-Nitropropane	13.789	13.729	1.110		0m	N.D.	d
104) Ethyl methacrylate	14.678	14.678	0.919		0m	N.D.	d
106) 1-Chlorohexane	15.971	15.911	0.865		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	17.038	17.073	0.923		0m	N.D.	d
108) Cyclohexanone	17.168	17.156	0.930		0m	N.D.	d
109) trans-1,4-Dichloro-2-b...	17.370	17.370	0.941		0m	N.D.	d
110) Pentachloroethane	18.069	18.058	0.979		0m	N.D.	d
111) Benzyl chloride	18.603	18.603	1.008		0m	N.D.	d
112) bis(2-Chloroisopropyl)...	19.149	19.018	1.037		0m	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

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Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z104LS2.D
Acq On    : 15 Feb 2010    8:07 am
Operator  : CDS1
InstName  : VOA2
Sample    : |1202044279|952586|1|VOAF|D|VOA8260BS|
Misc      : LCS 5G - SOIL MIX[A] 0126-01D/0214-01
ALS Vial  : 4    Sample Multiplier:1

```

[illegible]

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620		Matrix: SOIL
Lab Sample ID: 1202044280		
Client Sample: QC for batch 952579	Client: LANL010	Project: QC
Client ID: LCS for batch 952579	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/15/2010 08:36	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/15/2010 06:00	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021510V2.b\2Z105SLD2.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.00	ug/kg	0.340	1.00
74-87-3	Chloromethane	U	1.00	ug/kg	0.300	1.00
75-01-4	Vinyl chloride	U	1.00	ug/kg	0.300	1.00
74-83-9	Bromomethane	U	1.00	ug/kg	0.300	1.00
75-00-3	Chloroethane	U	1.00	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/kg	0.300	1.00
67-64-1	Acetone	U	5.00	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
74-88-4	Iodomethane	U	5.00	ug/kg	1.60	5.00
75-09-2	Methylene chloride	U	5.00	ug/kg	2.00	5.00
75-15-0	Carbon disulfide	U	5.00	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/kg	0.300	1.00
78-93-3	2-Butanone	U	5.00	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
67-66-3	Chloroform	U	1.00	ug/kg	0.300	1.00
74-97-5	Bromochloromethane	U	1.00	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene	U	1.00	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/kg	0.300	1.00
71-43-2	Benzene	U	1.00	ug/kg	0.300	1.00
79-01-6	Trichloroethylene	U	1.00	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/kg	0.300	1.00
74-95-3	Dibromomethane	U	1.00	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
108-88-3	Toluene	U	1.00	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/kg	0.300	1.00
591-78-6	2-Hexanone	U	5.00	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane	U	1.00	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene	U	1.00	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane	U	1.00	ug/kg	0.300	1.00
108-90-7	Chlorobenzene	U	1.00	ug/kg	0.300	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620		Matrix: SOIL
Lab Sample ID: 1202044280		
Client Sample: QC for batch 952579	Client: LANL010	Project: QC
Client ID: LCS for batch 952579	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/15/2010 08:36	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/15/2010 06:00	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021510V2.b\2Z105SLD2.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.00	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes	U	2.00	ug/kg	0.300	2.00
95-47-6	o-Xylene	U	1.00	ug/kg	0.300	1.00
100-42-5	Styrene	U	1.00	ug/kg	0.300	1.00
75-25-2	Bromoform	U	1.00	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane	U	1.00	ug/kg	0.300	1.00
108-86-1	Bromobenzene	U	1.00	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene	U	1.00	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene	U	1.00	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene	U	1.00	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene	U	1.00	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene	U	1.00	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene	U	1.00	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/kg	0.300	1.00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane		265	ug/kg	1.60	5.00
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z105SLD2.D
Acq On : 15 Feb 2010 8:36 am
Operator : CDS1
InstName : VOA2
Sample : |1202044280|952586|1|VOAF|1|VOA8260BS|
Misc : LCS 5G - SOIL MIX[B] 1216-08B
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 09:22:18 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev(Min)
1) Fluorobenzene	12.425	12.437	1.000	96	1446009	50.00	ug/L	-0.01
41) Chlorobenzene-d5	15.971	15.970	1.000	117	1102765	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	636164	50.00	ug/L	0.00
82) B Fluorobenzene	12.425	12.437	1.000	96	1445974	50.00	ug/L	-0.01
103) B Chlorobenzene-d5	15.971	15.971	1.000	117	1102765	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	636284	50.00	ug/L	0.00
System Monitoring Compounds								Dev(Min)
29) 1,2-Dichloroethane-d4	11.974	11.986	0.964	65	680994	50.13	ug/L	-0.01
Spiked Amount	50.000	Range 66 - 134	Recovery	=	100.26%			
43) Toluene-d8	14.346	14.346	0.898	98	1419077	48.13	ug/L	0.00
Spiked Amount	50.000	Range 71 - 128	Recovery	=	96.26%			
61) Bromofluorobenzene	17.228	17.227	0.933	95	679051	49.74	ug/L	0.00
Spiked Amount	50.000	Range 65 - 130	Recovery	=	99.48%			
Target Compounds								QValue
2) Dichlorodifluoromethane	4.687	4.702	0.377		0m	N.D.	d	
3) Chloromethane	4.999	4.999	0.402		0m	N.D.	d	
4) Vinyl chloride	5.252	5.266	0.423		0m	N.D.	d	
5) Bromomethane	0.000	5.980	0.000		0	N.D.		
6) Chloroethane	0.000	6.223	0.000		0	N.D.		
7) Trichlorofluoromethane	6.792	6.839	0.547		0m	N.D.	d	
8) Ethyl ether	0.000	7.409	0.000		0	N.D.		
9) Acetone	7.907	7.930	0.636		0m	N.D.	d	
10) 1,1-Dichloroethylene	7.907	7.883	0.636		0m	N.D.	d	
11) Iodomethane	8.156	8.167	0.656		0m	N.D.	d	
12) Acetonitrile	8.535	8.452	0.687		0m	N.D.	d	
13) Methyl acetate	8.571	8.571	0.690		0m	N.D.	d	
14) Carbon disulfide	8.298	8.322	0.668		0m	N.D.	d	
15) Methylene chloride	8.761	8.772	0.705		0m	N.D.	d	
16) tert-Butyl ether	9.270	9.282	0.746		0m	N.D.	d	
17) trans-1,2-Dichloroethy...	9.247	9.270	0.744		0m	N.D.	d	
18) Vinyl acetate	10.006	10.017	0.805		0m	N.D.	d	
19) 1,1-Dichloroethane	9.935	9.958	0.800		0m	N.D.	d	
20) 2-Butanone	10.907	10.836	0.878		0m	N.D.	d	
21) cis-1,2-Dichloroethylene	10.907	10.848	0.878		0m	N.D.	d	
22) 2,2-Dichloropropane	10.848	10.871	0.873		0m	N.D.	d	
23) Bromochloromethane	0.000	11.203	0.000		0	N.D.		
24) Chloroform	11.286	11.298	0.908		0m	N.D.	d	
25) 1,1,1-Trichloroethane	11.583	11.606	0.932		0m	N.D.	d	
26) Cyclohexane	11.713	11.713	0.943		0m	N.D.	d	
27) 1,1-Dichloropropene	11.844	11.820	0.953		0m	N.D.	d	
28) Carbon tetrachloride	0.000	11.844	0.000		0	N.D.		
30) 1,2-Dichloroethane	12.081	12.093	0.972		0m	N.D.	d	
31) Benzene	12.093	12.093	0.973		0m	N.D.	d	
32) Cyclohexene	12.235	12.247	0.985		0m	N.D.	d	
33) n-Butyl alcohol	12.698	12.697	1.022		0m	N.D.	d	
34) Trichloroethylene	12.887	12.899	1.037		0m	N.D.	d	
35) 1,2-Dichloropropane	0.000	13.172	0.000		0	N.D.		
36) Methylcyclohexane	13.243	13.184	1.066		0m	N.D.	d	
37) Dibromomethane	13.302	13.314	1.071		0m	N.D.	d	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22105SLD2.D
Acq On : 15 Feb 2010 8:36 am
Operator : CDS1
InstName : VOA2
Sample : |1202044280|952586|1|VOAF|1|VOA8260BS|
Misc : LCS 5G - SOIL MIX[B] 1216-08B
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 09:22:18 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
38) Bromodichloromethane	13.480	13.480	1.085		0m	N.D.	d	
39) 2-Chloroethylvinyl ether	13.789	13.800	1.110		0m	N.D.	d	
40) cis-1,3-Dichloropropylene	14.002	14.002	1.127		0m	N.D.	d	
42) 4-Methyl-2-pentanone	14.144	14.144	0.886		0m	N.D.	d	
44) Toluene	14.417	14.429	0.903		0m	N.D.	d	
45) trans-1,3-Dichloroprop...	14.619	14.618	0.915		0m	N.D.	d	
46) 1,1,2-Trichloroethane	14.844	14.844	0.929		0m	N.D.	d	
47) 2-Hexanone	15.081	15.069	0.944		0m	N.D.	d	
48) 1,3-Dichloropropane	15.081	15.045	0.944		0m	N.D.	d	
49) Tetrachloroethylene	15.057	15.069	0.943		0m	N.D.	d	
50) Dibromochloromethane	15.318	15.318	0.959		0m	N.D.	d	
51) 1,2-Dibromoethane	15.472	15.472	0.969		0m	N.D.	d	
52) Chlorobenzene	16.006	16.006	1.002		0m	N.D.	d	
53) 1,1,1,2-Tetrachloroethane	16.077	16.077	1.007		0m	N.D.	d	
54) Ethylbenzene	16.089	16.101	1.007		0m	N.D.	d	
55) m,p-Xylenes	16.208	16.219	1.015		0m	N.D.	d	
56) o-Xylene	16.658	16.658	1.043		0m	N.D.	d	
57) Styrene	16.658	16.658	1.043		0m	N.D.	d	
59) Bromoform	16.895	16.895	0.915		0m	N.D.	d	
60) Isopropylbenzene	17.038	17.038	0.923		0m	N.D.	d	
62) 1,1,2,2-Tetrachloroethane	17.311	17.310	0.938		0m	N.D.	d	
63) 1,2,3-Trichloropropane	17.394	17.393	0.942		0m	N.D.	d	
64) Bromobenzene	17.429	17.429	0.944		0m	N.D.	d	
65) n-Propylbenzene	17.477	17.476	0.947		0m	N.D.	d	
66) 1,3,5-Trimethylbenzene	17.643	17.642	0.956		0m	N.D.	d	
67) 2-Chlorotoluene	17.607	17.607	0.954		0m	N.D.	d	
68) 4-Chlorotoluene	17.714	17.714	0.960		0m	N.D.	d	
69) tert-Butylbenzene	18.058	18.010	0.978		0m	N.D.	d	
70) 1,2,4-Trimethylbenzene	18.081	18.057	0.979		0m	N.D.	d	
71) sec-Butylbenzene	18.236	18.235	0.988		0m	N.D.	d	
72) 4-Isopropyltoluene	18.366	18.366	0.995		0m	N.D.	d	
73) 1,3-Dichlorobenzene	18.402	18.401	0.997		0m	N.D.	d	
74) 1,4-Dichlorobenzene	18.496	18.496	1.002		0m	N.D.	d	
75) n-Butylbenzene	18.805	18.805	1.019		0m	N.D.	d	
76) 1,2-Dichlorobenzene	18.900	18.899	1.024		0m	N.D.	d	
77) 1,2-Dibromo-3-chloropr...	19.718	19.718	1.068		0m	N.D.	d	
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121		0m	N.D.	d	
79) Hexachlorobutadiene	20.868	20.868	1.130		0m	N.D.	d	
80) Naphthalene	21.022	21.022	1.139		0m	N.D.	d	
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156		0m	N.D.	d	
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.		
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.		
85) Acrolein	7.622	7.646	0.613	56	277664	275.71	ug/L	98
86) Trichlorotrifluoroethane	7.907	7.930	0.636	85	839299	264.68	ug/L	98
87) Isopropyl Alcohol	8.203	8.191	0.660	45	17787	N.D.		
88) Allyl chloride	8.535	8.559	0.687	41	3357104	261.78	ug/L	97
89) tert-Butyl Alcohol	8.927	8.938	0.718	59	122	N.D.		
90) Acrylonitrile	9.152	9.164	0.737	53	660013	245.70	ug/L	99
91) Isopropyl ether	10.101	10.077	0.813	45	120	N.D.		
92) 2-Chloro-1,3-butadiene	10.101	10.124	0.813	53	753567	56.48	ug/L	92
93) Ethyl tert-butyl ether	0.000	10.634	0.000		0	N.D.		
94) Ethyl acetate	10.907	10.919	0.878	43	1869066	250.38	ug/L	99

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z105SLD2.D
Acq On : 15 Feb 2010 8:36 am
Operator : CDS1
InstName : VOA2
Sample : |1202044280|952586|1|VOAF|1|VOA8260BS|
Misc : LCS 5G - SOIL MIX[B] 1216-08B
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 09:22:18 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

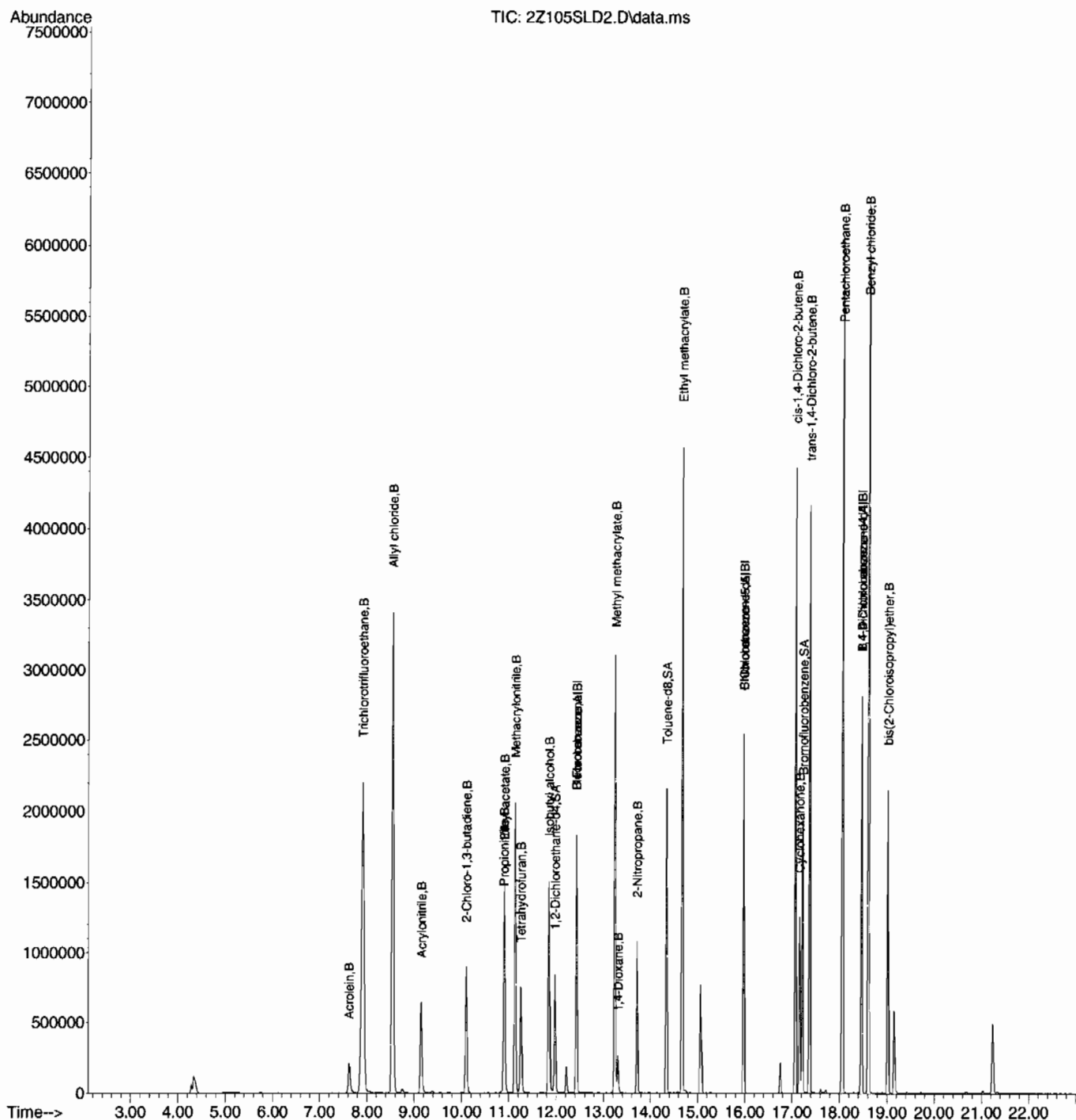
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
95) Propionitrile	10.895	10.907	0.877	54	258644	244.97	ug/L	99
96) Methacrylonitrile	11.132	11.144	0.896	41	1218460	257.90	ug/L	98
97) Tetrahydrofuran	11.251	11.275	0.906	42	597185	262.02	ug/L	98
98) Isobutyl alcohol	11.844	11.856	0.953	41	763792	2568.83	ug/L	98
99) Methyl tert-amyl ether	12.211	12.211	0.983	73	788	N.D.		
100) Methyl methacrylate	13.243	13.243	1.066	69	974773	257.66	ug/L	94
101) 1,4-Dioxane	13.302	13.314	1.071	88	155948	2253.59	ug/L	99
102) 2-Nitropropane	13.717	13.729	1.104	43	776698	263.46	ug/L	99
104) Ethyl methacrylate	14.666	14.678	0.918	69	1976816	263.21	ug/L	95
106) 1-Chlorohexane	0.000	15.911	0.000		0m	N.D.	d	
107) cis-1,4-Dichloro-2-butene	17.073	17.073	0.925	53	1101115	325.40	ug/L	99
108) Cyclohexanone	17.156	17.156	0.929	42	453129	398.07	ug/L	95
109) trans-1,4-Dichloro-2-b...	17.370	17.370	0.941	53	1056542	316.14	ug/L	97
110) Pentachloroethane	18.070	18.058	0.979	167	1168439	516.63	ug/L	99 E
111) Benzyl chloride	18.603	18.603	1.008	91	4666768	456.78	ug/L	99
112) bis(2-Chloroisopropyl)...	19.018	19.018	1.030	45	1376308	267.95	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z105SLD2.D
Acq On : 15 Feb 2010 8:36 am
Operator : CDS1
InstName : VOA2
Sample : |1202044280|952586|1|VOAF|1|VOA8260BS|
Misc : LCS 5G - SOIL MIX[B] 1216-08B
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 09:22:18 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 1202041684	Date Received: 02/06/2010 09:15	%Moisture: 6.3
Client Sample: QC for batch 952579	Client: LANL010	Project: QC
Client ID: RE15-10-8374PS	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/15/2010 17:49	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/15/2010 08:07	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021510V2.b\2Z124.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane		49.4	ug/kg	0.363	1.07
74-87-3	Chloromethane		49.0	ug/kg	0.320	1.07
75-01-4	Vinyl chloride		52.2	ug/kg	0.320	1.07
74-83-9	Bromomethane		61.2	ug/kg	0.320	1.07
75-00-3	Chloroethane		50.0	ug/kg	0.320	1.07
75-69-4	Trichlorofluoromethane		52.1	ug/kg	0.320	1.07
67-64-1	Acetone		245	ug/kg	1.77	5.34
75-35-4	1,1-Dichloroethylene		50.8	ug/kg	0.320	1.07
74-88-4	Iodomethane		233	ug/kg	1.71	5.34
75-09-2	Methylene chloride		46.7	ug/kg	2.13	5.34
75-15-0	Carbon disulfide		259	ug/kg	1.33	5.34
156-60-5	trans-1,2-Dichloroethylene		50.8	ug/kg	0.320	1.07
75-34-3	1,1-Dichloroethane		51.3	ug/kg	0.320	1.07
78-93-3	2-Butanone		221	ug/kg	1.60	5.34
156-59-2	cis-1,2-Dichloroethylene		51.8	ug/kg	0.320	1.07
594-20-7	2,2-Dichloropropane		56.3	ug/kg	0.320	1.07
67-66-3	Chloroform		50.3	ug/kg	0.320	1.07
74-97-5	Bromochloromethane		48.5	ug/kg	0.352	1.07
71-55-6	1,1,1-Trichloroethane		53.3	ug/kg	0.320	1.07
563-58-6	1,1-Dichloropropene		53.0	ug/kg	0.320	1.07
56-23-5	Carbon tetrachloride		55.0	ug/kg	0.320	1.07
107-06-2	1,2-Dichloroethane		50.9	ug/kg	0.320	1.07
71-43-2	Benzene		49.5	ug/kg	0.320	1.07
79-01-6	Trichloroethylene		50.0	ug/kg	0.352	1.07
78-87-5	1,2-Dichloropropane		51.1	ug/kg	0.320	1.07
75-27-4	Bromodichloromethane		54.8	ug/kg	0.320	1.07
74-95-3	Dibromomethane		51.4	ug/kg	0.320	1.07
108-10-1	4-Methyl-2-pentanone		285	ug/kg	1.33	5.34
10061-01-5	cis-1,3-Dichloropropylene		54.0	ug/kg	0.320	1.07
108-88-3	Toluene		49.7	ug/kg	0.320	1.07
10061-02-6	trans-1,3-Dichloropropylene		55.8	ug/kg	0.320	1.07
79-00-5	1,1,2-Trichloroethane		49.7	ug/kg	0.320	1.07
591-78-6	2-Hexanone		236	ug/kg	1.60	5.34
142-28-9	1,3-Dichloropropane		50.6	ug/kg	0.320	1.07
127-18-4	Tetrachloroethylene		47.4	ug/kg	0.320	1.07
124-48-1	Dibromochloromethane		54.5	ug/kg	0.320	1.07
106-93-4	1,2-Dibromoethane		50.9	ug/kg	0.320	1.07
108-90-7	Chlorobenzene		48.1	ug/kg	0.320	1.07

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 1202041684	Date Received: 02/06/2010 09:15	%Moisture: 6.3
Client Sample: QC for batch 952579	Client: I.ANL010	Project: QC
Client ID: RE15-10-8374PS	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.1	Dilution: 1
Run Date: 02/15/2010 17:49	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/15/2010 08:07	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021510V2.b\2Z124.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene		50.0	ug/kg	0.320	1.07
179601-23-1	m,p-Xylenes		97.5	ug/kg	0.320	2.13
95-47-6	o-Xylene		49.0	ug/kg	0.320	1.07
100-42-5	Styrene		51.1	ug/kg	0.320	1.07
75-25-2	Bromoform		55.1	ug/kg	0.320	1.07
79-34-5	1,1,2,2-Tetrachloroethane		52.5	ug/kg	0.320	1.07
96-18-4	1,2,3-Trichloropropane		50.8	ug/kg	0.320	1.07
108-86-1	Bromobenzene		47.6	ug/kg	0.320	1.07
103-65-1	n-Propylbenzene		49.5	ug/kg	0.320	1.07
95-49-8	2-Chlorotoluene		48.2	ug/kg	0.320	1.07
98-82-8	Isopropylbenzene		52.5	ug/kg	0.320	1.07
108-67-8	1,3,5-Trimethylbenzene		49.7	ug/kg	0.320	1.07
106-43-4	4-Chlorotoluene		48.1	ug/kg	0.320	1.07
98-06-6	tert-Butylbenzene		49.9	ug/kg	0.320	1.07
95-63-6	1,2,4-Trimethylbenzene		51.9	ug/kg	0.320	1.07
135-98-8	sec-Butylbenzene		49.7	ug/kg	0.320	1.07
99-87-6	4-Isopropyltoluene		47.3	ug/kg	0.320	1.07
541-73-1	1,3-Dichlorobenzene		46.0	ug/kg	0.320	1.07
106-46-7	1,4-Dichlorobenzene		45.8	ug/kg	0.320	1.07
104-51-8	n-Butylbenzene		50.0	ug/kg	0.320	1.07
96-12-8	1,2-Dibromo-3-chloropropane		48.4	ug/kg	0.320	1.07
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane Trichlorotrifluoroethane	U	5.34	ug/kg	1.71	5.34
630-20-6	1,1,1,2-Tetrachloroethane		51.7	ug/kg	0.320	1.07
95-50-1	1,2-Dichlorobenzene		46.1	ug/kg	0.320	1.07

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z124.D
Acq On : 15 Feb 2010 5:49 pm
Operator : CDS1
InstName : VOA2
Sample : |1202041684|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL MS 246434015 MIX[A]
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 16 07:18:24 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev(Min)
1) Fluorobenzene	12.425	12.437	1.000	96	1322632	50.00	ug/L	-0.01
41) Chlorobenzene-d5	15.971	15.970	1.000	117	1042771	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	613466	50.00	ug/L	0.00
82) B Fluorobenzene	12.425	12.437	1.000	96	1322340	50.00	ug/L	-0.01
103) B Chlorobenzene-d5	15.971	15.971	1.000	117	1042771	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	613560	50.00	ug/L	0.00
System Monitoring Compounds								Dev(Min)
29) 1,2-Dichloroethane-d4	11.974	11.986	0.964	65	641283	51.61	ug/L	-0.01
Spiked Amount	50.000	Range	66 - 134	Recovery	= 103.22%			
43) Toluene-d8	14.334	14.346	0.898	98	1350531	48.44	ug/L	-0.01
Spiked Amount	50.000	Range	71 - 128	Recovery	= 96.88%			
61) Bromofluorobenzene	17.216	17.227	0.933	95	646864	49.13	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 130	Recovery	= 98.26%			
Target Compounds	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	QValue
2) Dichlorodifluoromethane	4.702	4.702	0.378	85	302257	46.27	ug/L	100
3) Chloromethane	4.999	4.999	0.402	50	357077	45.95	ug/L	100
4) Vinyl chloride	5.267	5.266	0.424	62	346835	48.88	ug/L	99
5) Bromomethane	5.980	5.980	0.481	94	165494	57.35	ug/L	98
6) Chloroethane	6.211	6.223	0.500	64	223099	46.85	ug/L	99
7) Trichlorofluoromethane	6.840	6.839	0.550	101	613602	48.84	ug/L	100
8) Ethyl ether	7.397	7.409	0.595	59	273250	47.50	ug/L	97
9) Acetone	7.919	7.930	0.637	43	1223321	229.95	ug/L	98
10) 1,1-Dichloroethylene	7.871	7.883	0.634	61	594736	47.58	ug/L	98
11) Iodomethane	8.156	8.167	0.656	142	2087623	217.85	ug/L	96
12) Acetonitrile	8.429	8.452	0.678	41	1142873	1201.67	ug/L	99
13) Methyl acetate	8.559	8.571	0.689	43	2001854	344.96	ug/L	99
14) Carbon disulfide	8.298	8.322	0.668	76	4363107	242.27	ug/L	100
15) Methylene chloride	8.761	8.772	0.705	84	294142	43.77	ug/L	94
16) tert-Butyl methyl ether	9.259	9.282	0.745	73	909704	48.52	ug/L	100
17) trans-1,2-Dichloroethy...	9.259	9.270	0.745	61	536111	47.57	ug/L	98
18) Vinyl acetate	9.994	10.017	0.804	43	205611	16.87	ug/L	98
19) 1,1-Dichloroethane	9.946	9.958	0.801	63	621520	48.06	ug/L	99
20) 2-Butanone	10.812	10.836	0.870	43	1084952	207.28	ug/L	99
21) cis-1,2-Dichloroethylene	10.836	10.848	0.872	61	611247	48.49	ug/L	97
22) 2,2-Dichloropropane	10.860	10.871	0.874	77	550500	52.70	ug/L	97
23) Bromochloromethane	11.180	11.203	0.900	128	143155	45.47	ug/L	93
24) Chloroform	11.286	11.298	0.908	83	643942	47.15	ug/L	100
25) 1,1,1-Trichloroethane	11.583	11.606	0.932	97	656184	49.90	ug/L	98
26) Cyclohexane	11.690	11.713	0.941	56	607149	49.05	ug/L	100
27) 1,1-Dichloropropene	11.796	11.820	0.949	75	435341	49.70	ug/L	95
28) Carbon tetrachloride	11.832	11.844	0.952	117	626233	51.56	ug/L	100
30) 1,2-Dichloroethane	12.069	12.093	0.971	62	650074	47.71	ug/L	100
31) Benzene	12.081	12.093	0.972	78	1008990	46.36	ug/L	98
32) Cyclohexene	12.223	12.247	0.984	67	570441	48.89	ug/L	98
33) n-Butyl alcohol	12.686	12.697	1.021	56	1222687	5041.61	ug/L	97
34) Trichloroethylene	12.887	12.899	1.037	95	322730	46.89	ug/L	100
35) 1,2-Dichloropropane	13.160	13.172	1.059	63	304220	47.88	ug/L	99
36) Methylcyclohexane	13.172	13.184	1.060	83	456443	45.99	ug/L	98
37) Dibromomethane	13.314	13.314	1.072	93	203178	48.12	ug/L	98

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22124.D
Acq On : 15 Feb 2010 5:49 pm
Operator : CDS1
InstName : VOA2
Sample : |1202041684|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL MS 246434015 MIX[A]
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 16 07:18:24 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
38) Bromodichloromethane	13.480	13.480	1.085	83	512250	51.32	ug/L 100
39) 2-Chloroethylvinyl ether	13.789	13.800	1.110	63	882777	219.32	ug/L 99
40) cis-1,3-Dichloropropylene	14.002	14.002	1.127	75	479969	50.59	ug/L 96
42) 4-Methyl-2-pentanone	14.144	14.144	0.886	58	738875	266.67	ug/L 96
44) Toluene	14.417	14.429	0.903	91	1176224	46.56	ug/L 99
45) trans-1,3-Dichloroprop...	14.607	14.618	0.915	75	522642	52.26	ug/L 97
46) 1,1,2-Trichloroethane	14.832	14.844	0.929	83	207589	46.57	ug/L 100
47) 2-Hexanone	15.069	15.069	0.944	43	1674320	220.96	ug/L 98
48) 1,3-Dichloropropane	15.034	15.045	0.941	76	456888	47.36	ug/L 98
49) Tetrachloroethylene	15.057	15.069	0.943	164	229683	44.43	ug/L 98
50) Dibromochloromethane	15.307	15.318	0.958	129	369046	51.05	ug/L 100
51) 1,2-Dibromoethane	15.473	15.472	0.969	107	285598	47.70	ug/L 99
52) Chlorobenzene	16.006	16.006	1.002	112	775272	45.07	ug/L 98
53) 1,1,1,2-Tetrachloroethane	16.065	16.077	1.006	131	339694	48.45	ug/L 98
54) Ethylbenzene	16.089	16.101	1.007	91	1490102	46.88	ug/L 99
55) m,p-Xylenes	16.208	16.219	1.015	106	1045602	91.34	ug/L 98
56) o-Xylene	16.658	16.658	1.043	106	519030	45.92	ug/L 99
57) Styrene	16.658	16.658	1.043	104	847467	47.83	ug/L 97
59) Bromoform	16.896	16.895	0.915	173	245532	51.61	ug/L 98
60) Isopropylbenzene	17.038	17.038	0.923	105	1555989	49.20	ug/L 98
62) 1,1,2,2-Tetrachloroethane	17.311	17.310	0.938	83	365023	49.23	ug/L 99
63) 1,2,3-Trichloropropane	17.394	17.393	0.942	110	126487	47.61	ug/L 93
64) Bromobenzene	17.417	17.429	0.943	156	349362	44.62	ug/L 98
65) n-Propylbenzene	17.477	17.476	0.947	91	1767435	46.36	ug/L 100
66) 1,3,5-Trimethylbenzene	17.643	17.642	0.956	105	1312776	46.55	ug/L 99
67) 2-Chlorotoluene	17.607	17.607	0.954	126	324805	45.18	ug/L 96
68) 4-Chlorotoluene	17.714	17.714	0.960	91	1145862	45.03	ug/L 100
69) tert-Butylbenzene	18.010	18.010	0.976	134	241104	46.71	ug/L 96
70) 1,2,4-Trimethylbenzene	18.046	18.057	0.978	105	1403496	48.60	ug/L 97
71) sec-Butylbenzene	18.236	18.235	0.988	105	1640428	46.58	ug/L 100
72) 4-Isopropyltoluene	18.366	18.366	0.995	119	1251666	44.30	ug/L 98
73) 1,3-Dichlorobenzene	18.402	18.401	0.997	146	664033	43.11	ug/L 100
74) 1,4-Dichlorobenzene	18.485	18.496	1.001	146	674445	42.88	ug/L 100
75) n-Butylbenzene	18.805	18.805	1.019	91	1301361	46.82	ug/L 99
76) 1,2-Dichlorobenzene	18.900	18.899	1.024	146	648334	43.16	ug/L 99
77) 1,2-Dibromo-3-chloropr...	19.706	19.718	1.067	157	88230	45.37	ug/L 97
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	398283	40.50	ug/L 99
79) Hexachlorobutadiene	20.868	20.868	1.130	225	247726	37.74	ug/L 99
80) Naphthalene	21.022	21.022	1.139	128	1056871	42.32	ug/L 100
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156	180	369049	39.21	ug/L 99
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.	
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.	
85) Acrolein	0.000	7.646	0.000		0	N.D.	
86) Trichlorotrifluoroethane	7.907	7.930	0.636		0m	N.D. d	
87) Isopropyl Alcohol	8.203	8.191	0.660		0m	N.D. d	
88) Allyl chloride	0.000	8.559	0.000		0	N.D.	
89) tert-Butyl Alcohol	8.950	8.938	0.720		0m	N.D. d	
90) Acrylonitrile	9.259	9.164	0.745		0m	N.D. d	
91) Isopropyl ether	9.994	10.077	0.804		0m	N.D. d	
92) 2-Chloro-1,3-butadiene	10.195	10.124	0.821		0m	N.D. d	
93) Ethyl tert-butyl ether	10.622	10.634	0.855		0m	N.D. d	
94) Ethyl acetate	10.812	10.919	0.870		0m	N.D. d	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22124.D
Acq On : 15 Feb 2010 5:49 pm
Operator : CDS1
InstName : VOA2
Sample : |1202041684|952586|1|VOAF|1|VOA8260BS|
Misc : LANTL 5G - SOIL MS 246434015 MIX[A]
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 16 07:18:24 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	10.812	10.907	0.870		0m	N.D.	d
96) Methacrylonitrile	11.073	11.144	0.891		0m	N.D.	d
97) Tetrahydrofuran	11.275	11.275	0.907		0m	N.D.	d
98) Isobutyl alcohol	11.974	11.856	0.964		0m	N.D.	d
99) Methyl tert-amyl ether	12.223	12.211	0.984		0m	N.D.	d
100) Methyl methacrylate	13.172	13.243	1.060		0m	N.D.	d
101) 1,4-Dioxane	13.314	13.314	1.072		0m	N.D.	d
102) 2-Nitropropane	13.706	13.729	1.103		0m	N.D.	d
104) Ethyl methacrylate	14.666	14.678	0.918		0m	N.D.	d
106) 1-Chlorohexane	15.971	15.911	0.865		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	17.050	17.073	0.924		0m	N.D.	d
108) Cyclohexanone	17.168	17.156	0.930		0m	N.D.	d
109) trans-1,4-Dichloro-2-b...	17.382	17.370	0.942		0m	N.D.	d
110) Pentachloroethane	18.058	18.058	0.978		0m	N.D.	d
111) Benzyl chloride	18.603	18.603	1.008		0m	N.D.	d
112) bis(2-Chloroisopropyl)...	19.149	19.018	1.037		0m	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 1202041685	Date Received: 02/06/2010 09:15	%Moisture: 6.3
Client Sample: QC for batch 952579	Client: LANL010	Project: QC
Client ID: RE15-10-8374PSD	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/15/2010 18:18	Analyst: CDSI	Purge Vol: 5 mL
Prep Date: 02/15/2010 08:08	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021510V2.b\2Z125.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane		48.1	ug/kg	0.363	1.07
74-87-3	Chloromethane		48.4	ug/kg	0.320	1.07
75-01-4	Vinyl chloride		50.8	ug/kg	0.320	1.07
74-83-9	Bromomethane		62.7	ug/kg	0.320	1.07
75-00-3	Chloroethane		49.2	ug/kg	0.320	1.07
75-69-4	Trichlorofluoromethane		51.1	ug/kg	0.320	1.07
67-64-1	Acetone		183	ug/kg	1.77	5.34
75-35-4	1,1-Dichloroethylene		49.8	ug/kg	0.320	1.07
74-88-4	Iodomethane		234	ug/kg	1.71	5.34
75-09-2	Methylene chloride		45.9	ug/kg	2.13	5.34
75-15-0	Carbon disulfide		258	ug/kg	1.33	5.34
156-60-5	trans-1,2-Dichloroethylene		50.6	ug/kg	0.320	1.07
75-34-3	1,1-Dichloroethane		50.9	ug/kg	0.320	1.07
78-93-3	2-Butanone		178	ug/kg	1.60	5.34
156-59-2	cis-1,2-Dichloroethylen		51.4	ug/kg	0.320	1.07
594-20-7	2,2-Dichloropropane		55.4	ug/kg	0.320	1.07
67-66-3	Chloroform		49.9	ug/kg	0.320	1.07
74-97-5	Bromochloromethane		48.4	ug/kg	0.352	1.07
71-55-6	1,1,1-Trichloroethane		52.8	ug/kg	0.320	1.07
563-58-6	1,1-Dichloropropene		52.7	ug/kg	0.320	1.07
56-23-5	Carbon tetrachloride		54.3	ug/kg	0.320	1.07
107-06-2	1,2-Dichloroethane		48.8	ug/kg	0.320	1.07
71-43-2	Benzene		49.5	ug/kg	0.320	1.07
79-01-6	Trichloroethylene		49.8	ug/kg	0.352	1.07
78-87-5	1,2-Dichloropropane		50.8	ug/kg	0.320	1.07
75-27-4	Bromodichloromethane		53.3	ug/kg	0.320	1.07
74-95-3	Dibromomethane		49.0	ug/kg	0.320	1.07
108-10-1	4-Methyl-2-pentanone		254	ug/kg	1.33	5.34
10061-01-5	cis-1,3-Dichloropropylene		52.6	ug/kg	0.320	1.07
108-88-3	Toluene		50.1	ug/kg	0.320	1.07
10061-02-6	trans-1,3-Dichloropropylene		53.7	ug/kg	0.320	1.07
79-00-5	1,1,2-Trichloroethane		47.6	ug/kg	0.320	1.07
591-78-6	2-Hexanone		198	ug/kg	1.60	5.34
142-28-9	1,3-Dichloropropane		48.5	ug/kg	0.320	1.07
127-18-4	Tetrachloroethylene		49.1	ug/kg	0.320	1.07
124-48-1	Dibromochloromethane		52.3	ug/kg	0.320	1.07
106-93-4	1,2-Dibromoethane		48.5	ug/kg	0.320	1.07
108-90-7	Chlorobenzene		48.7	ug/kg	0.320	1.07

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 1202041685	Date Received: 02/06/2010 09:15	%Moisture: 6.3
Client Sample: QC for batch 952579	Client: LANL010	Project: QC
Client ID: RE15-10-8374PSD	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952586	Inst: VOA2.I	Dilution: 1
Run Date: 02/15/2010 18:18	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 02/15/2010 08:08	Aliquot: 5 g	Final Volume: 5 mL
Data File: 021510V2.b\2Z125.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene		52.3	ug/kg	0.320	1.07
179601-23-1	m,p-Xylenes		98.8	ug/kg	0.320	2.13
95-47-6	o-Xylene		50.3	ug/kg	0.320	1.07
100-42-5	Styrene		51.4	ug/kg	0.320	1.07
75-25-2	Bromoform		53.3	ug/kg	0.320	1.07
79-34-5	1,1,2,2-Tetrachloroethane		49.8	ug/kg	0.320	1.07
96-18-4	1,2,3-Trichloropropane		47.7	ug/kg	0.320	1.07
108-86-1	Bromobenzene		47.8	ug/kg	0.320	1.07
103-65-1	n-Propylbenzene		50.9	ug/kg	0.320	1.07
95-49-8	2-Chlorotoluene		50.1	ug/kg	0.320	1.07
98-82-8	Isopropylbenzene		53.0	ug/kg	0.320	1.07
108-67-8	1,3,5-Trimethylbenzene		50.6	ug/kg	0.320	1.07
106-43-4	4-Chlorotoluene		49.6	ug/kg	0.320	1.07
98-06-6	tert-Butylbenzene		51.0	ug/kg	0.320	1.07
95-63-6	1,2,4-Trimethylbenzene		50.8	ug/kg	0.320	1.07
135-98-8	sec-Butylbenzene		50.8	ug/kg	0.320	1.07
99-87-6	4-Isopropyltoluene		45.9	ug/kg	0.320	1.07
541-73-1	1,3-Dichlorobenzene		46.8	ug/kg	0.320	1.07
106-46-7	1,4-Dichlorobenzene		46.3	ug/kg	0.320	1.07
104-51-8	n-Butylbenzene		50.3	ug/kg	0.320	1.07
96-12-8	1,2-Dibromo-3-chloropropane		43.1	ug/kg	0.320	1.07
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.34	ug/kg	1.71	5.34
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane		52.5	ug/kg	0.320	1.07
95-50-1	1,2-Dichlorobenzene		46.1	ug/kg	0.320	1.07

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22125.D
Acq On : 15 Feb 2010 6:18 pm
Operator : CDS1
InstName : VOA2
Sample : |1202041685|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL MSD 246434015 MIX[A]
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 16 07:18:36 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
Internal Standards								Dev (Min)
1) Fluorobenzene	12.425	12.437	1.000	96	1413333	50.00	ug/L	-0.01
41) Chlorobenzene-d5	15.970	15.970	1.000	117	1103639	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	637773	50.00	ug/L	0.00
82) B Fluorobenzene	12.425	12.437	1.000	96	1413047	50.00	ug/L	-0.01
103) B Chlorobenzene-d5	15.970	15.971	1.000	117	1103639	50.00	ug/L	0.00
105) B 1,4-Dichlorobenzene-d4	18.461	18.461	1.000	152	637897	50.00	ug/L	0.00
System Monitoring Compounds								Dev (Min)
29) 1,2-Dichloroethane-d4	11.974	11.986	0.964	65	646058	48.66	ug/L	-0.01
Spiked Amount 50.000	Range 66	- 134	Recovery	=	97.32%			
43) Toluene-d8	14.334	14.346	0.898	98	1426776	48.35	ug/L	-0.01
Spiked Amount 50.000	Range 71	- 128	Recovery	=	96.70%			
61) Bromofluorobenzene	17.215	17.227	0.933	95	670806	49.01	ug/L	-0.01
Spiked Amount 50.000	Range 65	- 130	Recovery	=	98.02%			
Target Compounds								QValue
2) Dichlorodifluoromethane	4.702	4.702	0.378	85	314668	45.08	ug/L	100
3) Chloromethane	4.999	4.999	0.402	50	376585	45.35	ug/L	100
4) Vinyl chloride	5.266	5.266	0.424	62	360499	47.55	ug/L	100
5) Bromomethane	5.979	5.980	0.481	94	181166	58.78	ug/L	99
6) Chloroethane	6.211	6.223	0.500	64	234442	46.08	ug/L	100
7) Trichlorofluoromethane	6.827	6.839	0.550	101	642492	47.86	ug/L	100
8) Ethyl ether	7.397	7.409	0.595	59	278799	45.35	ug/L	99
9) Acetone	7.918	7.930	0.637	43	973400	171.23	ug/L	99
10) 1,1-Dichloroethylene	7.871	7.883	0.633	61	622603	46.61	ug/L	99
11) Iodomethane	8.156	8.167	0.656	142	2240866	218.84	ug/L	98
12) Acetonitrile	8.428	8.452	0.678	41	1076072	1058.83	ug/L	99
13) Methyl acetate	8.559	8.571	0.689	43	1813622	292.47	ug/L	99
14) Carbon disulfide	8.298	8.322	0.668	76	4652084	241.74	ug/L	100
15) Methylene chloride	8.760	8.772	0.705	84	308738	42.99	ug/L	96
16) tert-Butyl methyl ether	9.258	9.282	0.745	73	922054	46.02	ug/L	99
17) trans-1,2-Dichloroethy...	9.258	9.270	0.745	61	570753	47.40	ug/L	99
18) Vinyl acetate	9.994	10.017	0.804	43	97700	7.50	ug/L	100
19) 1,1-Dichloroethane	9.946	9.958	0.801	63	659019	47.69	ug/L	100
20) 2-Butanone	10.824	10.836	0.871	43	934281	167.04	ug/L	100
21) cis-1,2-Dichloroethylene	10.836	10.848	0.872	61	648241	48.12	ug/L	98
22) 2,2-Dichloropropane	10.859	10.871	0.874	77	579573	51.92	ug/L	100
23) Bromochloromethane	11.191	11.203	0.901	128	152634	45.37	ug/L	96
24) Chloroform	11.286	11.298	0.908	83	681761	46.72	ug/L	99
25) 1,1,1-Trichloroethane	11.583	11.606	0.932	97	695769	49.51	ug/L	99
26) Cyclohexane	11.689	11.713	0.941	56	644458	48.72	ug/L	99
27) 1,1-Dichloropropene	11.796	11.820	0.949	75	462105	49.37	ug/L	98
28) Carbon tetrachloride	11.832	11.844	0.952	117	659991	50.86	ug/L	100
30) 1,2-Dichloroethane	12.069	12.093	0.971	62	665580	45.71	ug/L	100
31) Benzene	12.081	12.093	0.972	78	1078725	46.38	ug/L	98
32) Cyclohexene	12.223	12.247	0.984	67	611967	49.09	ug/L	100
33) n-Butyl alcohol	12.685	12.697	1.021	56	1079407	4191.27	ug/L	99
34) Trichloroethylene	12.899	12.899	1.038	95	342903	46.62	ug/L	99
35) 1,2-Dichloropropane	13.160	13.172	1.059	63	323354	47.62	ug/L	100
36) Methylcyclohexane	13.172	13.184	1.060	83	493391	46.52	ug/L	99
37) Dibromomethane	13.314	13.314	1.072	93	207149	45.91	ug/L	98

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22125.D
Acq On : 15 Feb 2010 6:18 pm
Operator : CDS1
InstName : VOA2
Sample : |1202041685|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL MSD 246434015 MIX[A]
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 16 07:18:36 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units	
38) Bromodichloromethane	13.480	13.480	1.085	83	533069	49.98	ug/L	100
39) 2-Chloroethylvinyl ether	13.788	13.800	1.110	63	880159	204.64	ug/L	100
40) cis-1,3-Dichloropropylene	14.002	14.002	1.127	75	499373	49.25	ug/L	98
42) 4-Methyl-2-pentanone	14.144	14.144	0.886	58	696816	237.62	ug/L	98
44) Toluene	14.417	14.429	0.903	91	1255700	46.96	ug/L	99
45) trans-1,3-Dichloroprop...	14.618	14.618	0.915	75	532651	50.33	ug/L	99
46) 1,1,2-Trichloroethane	14.832	14.844	0.929	83	210499	44.62	ug/L	100
47) 2-Hexanone	15.069	15.069	0.944	43	1486738	185.38	ug/L	99
48) 1,3-Dichloropropane	15.033	15.045	0.941	76	463644	45.41	ug/L	92
49) Tetrachloroethylene	15.057	15.069	0.943	164	251922	46.04	ug/L	99
50) Dibromochloromethane	15.318	15.318	0.959	129	374641	48.97	ug/L	100
51) 1,2-Dibromoethane	15.472	15.472	0.969	107	287820	45.42	ug/L	99
52) Chlorobenzene	16.006	16.006	1.002	112	831070	45.65	ug/L	99
53) 1,1,1,2-Tetrachloroethane	16.077	16.077	1.007	131	365103	49.21	ug/L	89
54) Ethylbenzene	16.089	16.101	1.007	91	1649430	49.03	ug/L	99
55) m,p-Xylenes	16.207	16.219	1.015	106	1121801	92.59	ug/L	98
56) o-Xylene	16.658	16.658	1.043	106	563685	47.12	ug/L	100
57) Styrene	16.658	16.658	1.043	104	903653	48.19	ug/L	97
59) Bromoform	16.895	16.895	0.915	173	246942	49.93	ug/L	99
60) Isopropylbenzene	17.038	17.038	0.923	105	1632309	49.65	ug/L	100
62) 1,1,2,2-Tetrachloroethane	17.310	17.310	0.938	83	359835	46.68	ug/L	99
63) 1,2,3-Trichloropropane	17.393	17.393	0.942	110	123396	44.67	ug/L	97
64) Bromobenzene	17.429	17.429	0.944	156	364528	44.78	ug/L	98
65) n-Propylbenzene	17.476	17.476	0.947	91	1890654	47.71	ug/L	100
66) 1,3,5-Trimethylbenzene	17.642	17.642	0.956	105	1389715	47.40	ug/L	100
67) 2-Chlorotoluene	17.607	17.607	0.954	126	350976	46.96	ug/L	100
68) 4-Chlorotoluene	17.714	17.714	0.960	91	1229648	46.48	ug/L	100
69) tert-Butylbenzene	18.010	18.010	0.976	134	256531	47.81	ug/L	97
70) 1,2,4-Trimethylbenzene	18.046	18.057	0.978	105	1427708	47.56	ug/L	99
71) sec-Butylbenzene	18.235	18.235	0.988	105	1743778	47.63	ug/L	100
72) 4-Isopropyltoluene	18.366	18.366	0.995	119	1262090	42.97	ug/L	99
73) 1,3-Dichlorobenzene	18.401	18.401	0.997	146	701338	43.80	ug/L	99
74) 1,4-Dichlorobenzene	18.496	18.496	1.002	146	709229	43.37	ug/L	100
75) n-Butylbenzene	18.805	18.805	1.019	91	1361107	47.11	ug/L	100
76) 1,2-Dichlorobenzene	18.899	18.899	1.024	146	673882	43.15	ug/L	99
77) 1,2-Dibromo-3-chloropr...	19.718	19.718	1.068	157	81141	40.38	ug/L	98
78) 1,2,4-Trichlorobenzene	20.690	20.690	1.121	180	400489	39.17	ug/L	100
79) Hexachlorobutadiene	20.868	20.868	1.130	225	258633	37.90	ug/L	99
80) Naphthalene	21.022	21.022	1.139	128	1022720	39.39	ug/L	100
81) 1,2,3-Trichlorobenzene	21.342	21.342	1.156	180	371078	37.92	ug/L	100
83) Chlorotrifluoroethylene	0.000	4.628	0.000		0	N.D.		
84) 2-Chloro-1,1,1-trifluo...	0.000	5.489	0.000		0	N.D.		
85) Acrolein	0.000	7.646	0.000		0	N.D.		
86) Trichlorotrifluoroethane	7.907	7.930	0.636		0m	N.D.	d	
87) Isopropyl Alcohol	8.215	8.191	0.661		0m	N.D.	d	
88) Allyl chloride	0.000	8.559	0.000		0	N.D.		
89) tert-Butyl Alcohol	8.950	8.938	0.720		0m	N.D.	d	
90) Acrylonitrile	9.258	9.164	0.745		0m	N.D.	d	
91) Isopropyl ether	9.994	10.077	0.804		0m	N.D.	d	
92) 2-Chloro-1,3-butadiene	10.195	10.124	0.821		0m	N.D.	d	
93) Ethyl tert-butyl ether	10.622	10.634	0.855		0m	N.D.	d	
94) Ethyl acetate	10.824	10.919	0.871		0m	N.D.	d	

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 22125.D
Acq On : 15 Feb 2010 6:18 pm
Operator : CDS1
InstName : VOA2
Sample : |1202041685|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL MSD 246434015 MIX[A]
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 16 07:18:36 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE

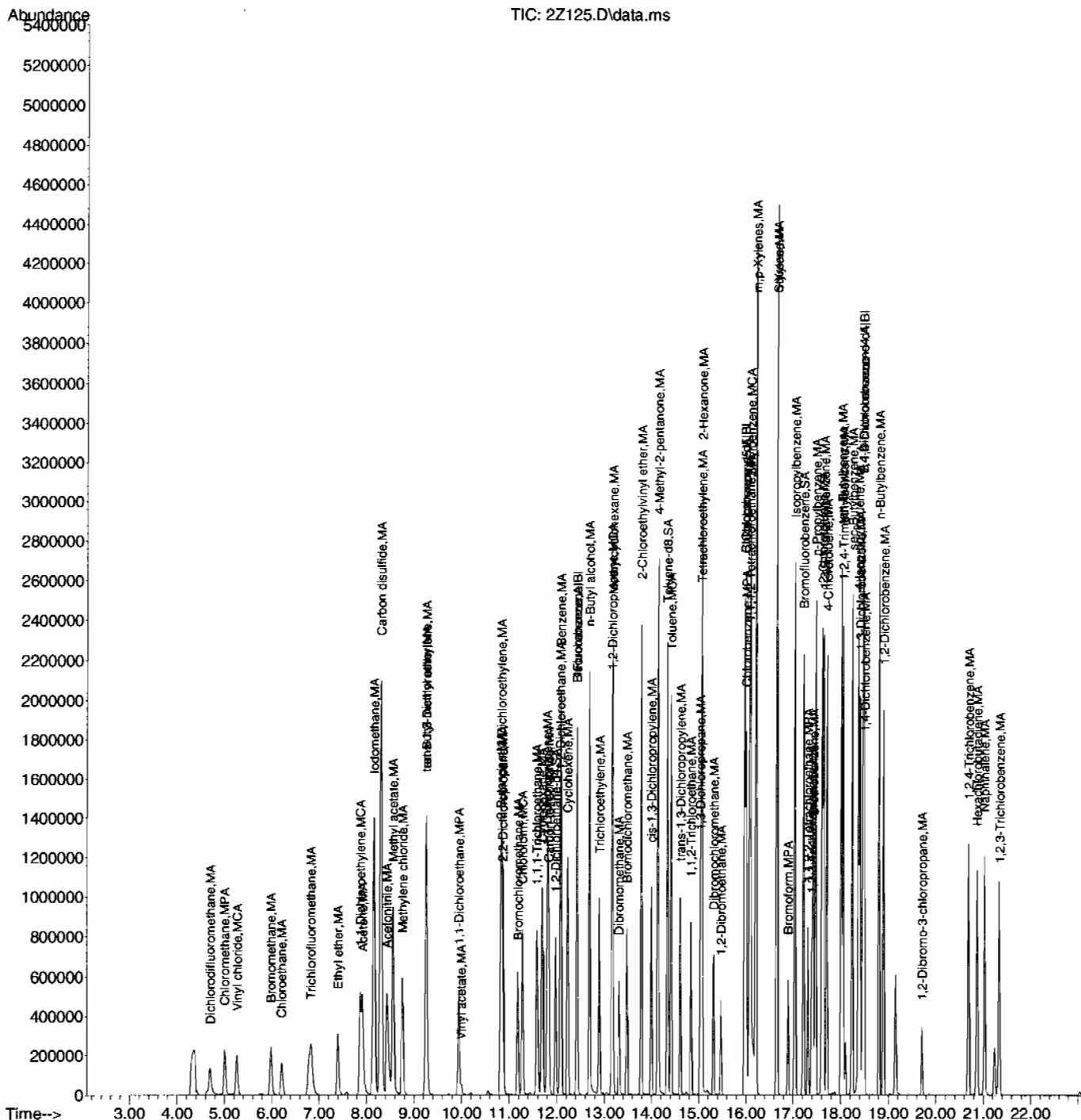
Compound	R.T.	Exp RT	Rel RT	QIon	Response	Conc	Units
95) Propionitrile	10.824	10.907	0.871		0m	N.D.	d
96) Methacrylonitrile	11.132	11.144	0.896		0m	N.D.	d
97) Tetrahydrofuran	11.274	11.275	0.907		0m	N.D.	d
98) Isobutyl alcohol	11.974	11.856	0.964		0m	N.D.	d
99) Methyl tert-amyl ether	12.223	12.211	0.984		0m	N.D.	d
100) Methyl methacrylate	13.172	13.243	1.060		0m	N.D.	d
101) 1,4-Dioxane	13.314	13.314	1.072		0m	N.D.	d
102) 2-Nitropropane	13.788	13.729	1.110		0m	N.D.	d
104) Ethyl methacrylate	0.000	14.678	0.000		0	N.D.	
106) 1-Chlorohexane	15.970	15.911	0.865		0m	N.D.	d
107) cis-1,4-Dichloro-2-butene	17.038	17.073	0.923		0m	N.D.	d
108) Cyclohexanone	17.038	17.156	0.923		0m	N.D.	d
109) trans-1,4-Dichloro-2-b...	17.370	17.370	0.941		0m	N.D.	d
110) Pentachloroethane	18.057	18.058	0.978		0m	N.D.	d
111) Benzyl chloride	18.603	18.603	1.008		0m	N.D.	d
112) bis(2-Chloroisopropyl)...	19.148	19.018	1.037		0m	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = Over the calibration range (d) = deleted

Quantitation Report
GEL Laboratories, LLC

Data Path : C:\msdchem\1\DATA\021510V2.b\
Data File : 2Z125.D
Acq On : 15 Feb 2010 6:18 pm
Operator : CDS1
InstName : VOA2
Sample : |1202041685|952586|1|VOAF|1|VOA8260BS|
Misc : LANL 5G - SOIL MSD 246434015 MIX[A]
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 16 07:18:36 2010
Quant Method : C:\msdchem\1\DATA\020810V2.b\VOA2-8260-020810.M
Quant Title : Volatile Organics 8260B SubList :
QLast Update : Tue Feb 09 07:23:51 2010
Response via : Initial Calibration
Integrator: RTE



Miscellaneous

Prep Logbook

Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer

Batch ID: 952579 Verified by: _____ Type: _____ Sample Id: _____ Description: _____ Serial Number: _____ Spike Amount: _____ Spike Units: _____
Analyst: Crystal Stacey
Method: SW846 5030
Lab SOP: GL-OA-E-038 REV# 14
Instrument: Sartorius Balance B-001

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
246338001	12-FEB-2010 11:00:00	Soil	5	5	1	
246338002	12-FEB-2010 11:03:00	Soil	5	5	1	
246434001	12-FEB-2010 11:04:00	Soil	5	5	1	
246434002	12-FEB-2010 11:05:00	Soil	5	5	1	
246434003	12-FEB-2010 11:06:00	Soil	5	5	1	
246434004	12-FEB-2010 11:07:00	Soil	5	5	1	
246434005	12-FEB-2010 11:08:00	Soil	5	5	1	
246434006	12-FEB-2010 11:09:00	Soil	5	5	1	
246434007	12-FEB-2010 11:10:00	Soil	5	5	1	
246434008	12-FEB-2010 11:11:00	Soil	5	5	1	
246434009	12-FEB-2010 11:12:00	Soil	5	5	1	
246434012	12-FEB-2010 11:15:00	Soil	5	5	1	
246434014	12-FEB-2010 11:17:00	Soil	5	5	1	
1202041683 MB	12-FEB-2010 14:00:00	Soil	5	5	1	
1202041686 LCS	12-FEB-2010 14:00:00	Soil	5	5	1	
1202041687 LCS	12-FEB-2010 14:00:00	Soil	5	5	1	
1202044278 MB	15-FEB-2010 06:00:00	Soil	5	5	1	
1202044279 LCS	15-FEB-2010 06:00:00	Soil	5	5	1	
1202044280 LCS	15-FEB-2010 06:00:00	Soil	5	5	1	
246434010	15-FEB-2010 08:03:00	Soil	5	5	1	
246434013	15-FEB-2010 08:05:00	Soil	5	5	1	
246434015	15-FEB-2010 08:06:00	Soil	5	5	1	
1202041684 PS (246434015)	15-FEB-2010 08:07:00	Soil	5	5	1	
1202041685 PSD (246434015)	15-FEB-2010 08:08:00	Soil	5	5	1	
246434011	15-FEB-2010 12:00:00	Soil	5	5	1	

Comments:

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

Date: 2/8/2010 Method 8260/OSM/624 Operator: CDS1
REVIEWED BY: _____
DATE: _____
Daily Instrument Readings: _____
Multiplier Voltage: 1376

Calibration & CC INFORMATION:

Initial Calibration Date: _____
(See pg. _____ for ICAI Std. Ids)
NaHSO4 lot # N/A
Cl test lot # N/A
Sequence Number: 020810V2pm

Daily Standard Solution ID# Volume Added for Purge (ul) MS/ Blk/ CVV LCS BFB

IS	UVM100203-01	1	1	1	
SS	UVM100203-02	1	1	1	
Long ICV	W2VM100209-02			5+5	
BFB	UVM100203-02				1
Short ICV	W2VM100208-27			5+5	

Purge Amount

5 Water Purge Vol: _____
Soil Purge Wt. _____
Mid level ext. MeOH Vol: _____
ul _____
Methanol Lot # _____
Heated Purge X

Analysis Date	Time	Data File	Lab Sample ID	Client	Batch #	Wt.(g) or Vol(ml/ul)	Dil. Factor	pH	AS Slot #	Matrix w or s	Analyst	Cl test (Y/N)	Accepta ble(O/X)	Comments
8 Feb 2010	16:55	2Y117.D	UVM100203-02	-----	BFB	5mL	1	N/A	1	w	CDS1	N/A	O	
8 Feb 2010	17:22	2Y118.D	120189-----	-----	BLANK	5mL	1	N/A	2	w	CDS1	N/A	O	
8 Feb 2010	17:51	2Y119.D	W2VM100208-10	VSTD001	ICAL	5ul ea.	1	N/A	3	w	CDS1	N/A	O	UVM100202-02B+UVM100106-02C
8 Feb 2010	18:20	2Y120.D	W2VM100208-11	VSTD002	ICAL	5ul ea.	1	N/A	4	w	CDS1	N/A	O	UVM100202-03B+UVM100106-03C
8 Feb 2010	18:49	2Y121.D	W2VM100208-12	VSTD005	ICAL	5ul ea.	1	N/A	5	w	CDS1	N/A	O	UVM100202-04B+UVM100106-04C
8 Feb 2010	19:18	2Y122.D	W2VM100208-13	VSTD010	ICAL	5ul ea.	1	N/A	6	w	CDS1	N/A	O	UVM100202-05B+UVM100106-05C
8 Feb 2010	19:47	2Y123.D	W2VM100208-14	VSTD020	ICAL	5ul ea.	1	N/A	7	w	CDS1	N/A	O	UVM100202-06B+UVM100106-06C
8 Feb 2010	20:16	2Y124.D	W2VM100208-15	VSTD050	ICAL	5ul ea.	1	N/A	8	w	CDS1	N/A	O	UVM100202-07B+UVM100106-07C
8 Feb 2010	20:45	2Y125.D	W2VM100208-16	VSTD100	ICAL	5ul ea.	1	N/A	9	w	CDS1	N/A	O	UVM100202-08B+UVM100106-08C
8 Feb 2010	21:14	2Y126.D	120189-----	-----	BLANK	5mL	1	N/A	10	w	CDS1	N/A	X	clean-up blank
8 Feb 2010	21:43	2Y127.D	W2VM100208-17	VSTD0005	ICAL	5ul ea.	1	N/A	11	w	CDS1	N/A	O	UVM100202-01B+UVM100106-01C
8 Feb 2010	22:12	2Y128.D	W2VM100208-18	ICV	ICS	5ul ea.	1	N/A	12	w	CDS1	N/A	X	UVM100126-02B+UVM100206-01 does not meet QSM criteria-see 2Y203
8 Feb 2010	22:41	2Y129.D	W2VM100208-19	ICV	ICS	5ul ea.	1	N/A	13	w	CDS1	N/A	X	UVM100124-01B+UVM100206-01 does not meet QSM criteria-see 2Y203
8 Feb 2010	23:10	2Y130.D	120189-----	-----	BLANK	5mL	1	N/A	14	w	CDS1	N/A	X	clean-up blank
8 Feb 2010	23:39	2Y131.D	W2VM100208-20	VSTD005S	ICAL	5ul ea.	1	N/A	15	w	CDS1	N/A	O	UVM100118-01+UVM100125-01C
9 Feb 2010	00:08	2Y132.D	W2VM100208-21	VSTD010S	ICAL	5ul ea.	1	N/A	16	w	CDS1	N/A	O	UVM100118-02+UVM100125-02C
9 Feb 2010	00:36	2Y133.D	W2VM100208-22	VSTD025S	ICAL	5ul ea.	1	N/A	17	w	CDS1	N/A	O	UVM100118-03+UVM100125-03C
9 Feb 2010	01:05	2Y134.D	W2VM100208-23	VSTD050S	ICAL	5ul ea.	1	N/A	18	w	CDS1	N/A	O	UVM100118-04+UVM100125-04C
9 Feb 2010	01:35	2Y135.D	W2VM100208-24	VSTD100S	ICAL	5ul ea.	1	N/A	19	w	CDS1	N/A	O	UVM100118-05+UVM100125-05C
9 Feb 2010	02:03	2Y136.D	W2VM100208-25	VSTD250S	ICAL	5ul ea.	1	N/A	20	w	CDS1	N/A	O	UVM100118-06+UVM100125-06C
9 Feb 2010	02:32	2Y137.D	W2VM100208-26	VSTD500S	ICAL	5ul ea.	1	N/A	21	w	CDS1	N/A	O	UVM100118-07+UVM100125-07C
9 Feb 2010	03:01	2Y138.D	120189-----	-----	BLANK	5mL	1	N/A	22	w	CDS1	N/A	X	clean-up blank
9 Feb 2010	03:31	2Y139.D	W2VM100208-27	-----	LCS	5ul ea.	1	N/A	23	w	CDS1	N/A	O	UVM100118-08B+UVM100125-08B

Date: 2/9/2010 Method 8260/QSM Operator: CDS1
REVIEWED BY: _____
DATE: _____
Daily Instrument Readings: _____
Multiplier Voltage: 1376

HARDWARE CONFIGURATION & METHOD CONDITIONS SUMMARY No# 1

CALIBRATION & CC INFORMATION:

Initial Calibration Date: 2/08/2010, 02/09/2010
(See pg. 36-37 for ICAL Std. Ids)
Solution ID# CCV W2VM100209-02
IS UVM100203-01 1 1 1
SS UVM100203-02 1 1 1
LCS/MS W2VM100209-02/04 5+5
BFB UVM100203-02 1
SHORT W2VM100209-05
Cl test lot # 81710
Sequence Number: 020910V2

Purge Amount

5 Water Purge Vol:
5 Soil Purge Wt.
Mid level ext. MeOH Vol:
ul
Methanol Lot #
Heated Purge X

Analysis Date	Time	Data File	Lab Sample ID	Client	Batch #	Wt.(g) or Vol(ml/ul)	Dil.	Factor pH	AS Slot #	Matrix Analyst	Cl test (Y/N)	Accepta ble(O/X)	Comments
9 Feb 2010 06:39	2Y201.D		W2VM100203-02	-----	BFB	5mL	1	N/A	1	w	CDS1	N/A	O
9 Feb 2010 07:06	2Y202.D		W2VM100209-01	-----	CCV	5mL	1	N/A	2	w	CDS1	N/A	X
9 Feb 2010 07:37	2Y203.D		W2VM100209-02	-----	ICV/CCV/LCS	5mL	1	N/A	3	w	CDS1	N/A	O
9 Feb 2010 08:07	2Y204.D		W2VM100209-03	-----	LCS/D	5mL	1	N/A	4	w	CDS1	N/A	X
9 Feb 2010 08:36	2Y205.D		W2VM100209-04	-----	LCS	5g	1	N/A	5	s	CDS1	N/A	O
9 Feb 2010 09:04	2Y206.D		W2VM100209-05	-----	CCV	5mL	1	N/A	6	w	CDS1	N/A	O
9 Feb 2010 09:33	2Y207.D		120203-0000	-----	BLANK	5mL	1	N/A	7	w	CDS1	N/A	O
9 Feb 2010 10:02	2Y208.D		120203-0000	-----	BLANK	5g	1	N/A	8	s	CDS1	N/A	O
9 Feb 2010 10:31	2Y209.D		245875004	SAIC	948961	500UL	10	PH2	9	w	CDS1	N	O
9 Feb 2010 11:00	2Y210.D		245875008	SAIC	948961	1ML	5	PH2	10	w	CDS1	N	O
9 Feb 2010 11:29	2Y211.D		245875008	SAIC	948961	5ML	1	PH2	11	w	CDS1	N	O
9 Feb 2010 11:58	2Y212.D		245875004	SAIC	948961	5ML	1	PH2	12	w	CDS1	N	O
9 Feb 2010 12:27	2Y213.D		245875006	SAIC	948961	5ML	1	PH2	13	w	CDS1	N	X
9 Feb 2010 12:56	2Y214.D		1202033065	SAIC	948961	5ML	1	PH2	14	w	CDS1	N	X
9 Feb 2010 13:25	2Y215.D		120203-0000	-----	BLANK	5ML	1	N/A	15	w	CDS1	N	X
9 Feb 2010 13:54	2Y216.D		245875010	SAIC	948961	5ML	1	PH2	16	w	CDS1	N	O
9 Feb 2010 14:23	2Y217.D		245875006	SAIC	948961	5ML	1	PH2	17	w	CDS1	N	O
9 Feb 2010 14:53	2Y218.D		1202033065	SAIC	948961	5ML	1	PH2	18	w	CDS1	N	O
9 Feb 2010 15:22	2Y219.D		1202033066	SAIC	948961	5ML	1	PH2	19	w	CDS1	N	O
9 Feb 2010 15:50	2Y220.D		120203-0000	BLANK	BLANK	5ML	1	N/A	20	w	CDS1	N/A	X
9 Feb 2010 16:20	2Y221.D		246140001	WASP	950971	5G	1	N/A	21	s	CDS1	N/A	O
9 Feb 2010 16:48	2Y222.D		246140002	WASP	950971	5G	1	N/A	22	s	CDS1	N/A	O
9 Feb 2010 17:17	2Y223.D		246140003	WASP	950971	5G	1	N/A	23	s	CDS1	N/A	O
9 Feb 2010 17:46	2Y224.D		246140004	WASP	950971	5G	1	N/A	24	s	CDS1	N/A	O

Date: 2/12/2010 Method 8260/624 Operator: CDS1
REVIEWED BY: _____
DATE: _____
Daily Instrument Readings: _____
Multiplier Voltage: 1376

HARDWARE CONFIGURATION & METHOD CONDITIONS SUMMARY No# 1

CALIBRATION & CC INFORMATION:

Initial Calibration Date: 2/08/2010, 02/09/2010
Daily Standard Volume Added for Purge (ul) MS/
Solution ID# Bk/ Smpl CCV LCS BFB
CCV W2VM100212-05 5+5
IS UVM100203-01 1 1 1
SS UVM100203-02 1 1 1
LCS/MS W2VM100212-06 5+5
BFB UVM100203-02 1
SHORT W2VM100212-07 5 5
Purge Amount
5 Water Purge Vol:
5 Soil Purge Wt.
Mid level ext. MeOH Vol:
ul
Methanol Lot #
X Heated Purge

Sequence Number: 021210V2pm

Analysis		Date	Time	Data File	Lab Sample ID	Client	Batch #	Wt.(g) or Vol.(ml/ul)	Dil. Factor	pH	AS Slot #	Matrix w or s	Analyst	CI test (Y/N)	Acceptance ble(O/X)	Comments
2/12/2010	18:23	2Y525.D	UVM100203-02	-----	-----	-----	BFB2	5mL	1	N/A	25	w	CDS1	N/A	O	
2/12/2010	18:49	2Y526.D	W2VM100212-05	-----	-----	-----	CCV	5mL	1	N/A	26	w	CDS1	N/A	O	UVM100106-07C+UVM100202-07B
2/12/2010	19:18	2Y527.D	W2VM100212-06	-----	-----	-----	LCS	5g	1	N/A	27	w	CDS1	N/A	O	UVM100126-01D+UVM100210-01 NCR bromomethane
2/12/2010	19:47	2Y528.D	W2VM100212-07	-----	-----	-----	CCV/LCS	5g	1	N/A	28	s	CDS1	N/A	O	UVM100119-08B
2/12/2010	20:16	2Y529.D	120204-----	-----	-----	-----	BLANK	5g	1	N/A	29	s	CDS1	N/A	O	
2/12/2010	20:45	2Y530.D	246338001	LANL	-----	-----	952586	5g	1	N/A	30	s	CDS1	N/A	O	
2/12/2010	21:14	2Y531.D	246338002	LANL	-----	-----	952586	5g	1	N/A	31	s	CDS1	N/A	O	
2/12/2010	21:43	2Y532.D	246434001	LANL	-----	-----	952586	5g	1	N/A	32	s	CDS1	N/A	O	
2/12/2010	22:12	2Y533.D	246434002	LANL	-----	-----	952586	5g	1	N/A	33	s	CDS1	N/A	O	
2/12/2010	22:41	2Y534.D	246434003	LANL	-----	-----	952586	5g	1	N/A	34	s	CDS1	N/A	O	
2/12/2010	23:10	2Y535.D	246434004	LANL	-----	-----	952586	5g	1	N/A	35	s	CDS1	N/A	O	
2/12/2010	23:39	2Y536.D	246434005	LANL	-----	-----	952586	5g	1	N/A	36	s	CDS1	N/A	O	
2/13/2010	0:08	2Y537.D	246434006	LANL	-----	-----	952586	5g	1	N/A	37	s	CDS1	N/A	O	
2/13/2010	0:37	2Y538.D	246434007	LANL	-----	-----	952586	5g	1	N/A	38	s	CDS1	N/A	O	
2/13/2010	1:06	2Y539.D	246434008	LANL	-----	-----	952586	5g	1	N/A	39	s	CDS1	N/A	O	
2/13/2010	1:35	2Y540.D	246434009	LANL	-----	-----	952586	5g	1	N/A	40	s	CDS1	N/A	O	
2/13/2010	2:04	2Y541.D	246434010	LANL	-----	-----	952586	5g	1	N/A	41	s	CDS1	N/A	X	rep TIC c/o
2/13/2010	2:33	2Y542.D	246434011	LANL	-----	-----	952586	5g	1	N/A	42	s	CDS1	N/A	X	rep TIC c/o
2/13/2010	3:02	2Y543.D	246434012	LANL	-----	-----	952586	5g	1	N/A	43	s	CDS1	N/A	O	
2/13/2010	3:30	2Y544.D	246434013	LANL	-----	-----	952586	5g	1	N/A	44	s	CDS1	N/A	X	
2/13/2010	4:00	2Y545.D	246434014	LANL	-----	-----	952586	5g	1	N/A	45	s	CDS1	N/A	O	rep TIC c/o
		2Y546.D	No MS or GC data present												X	OI heater error
		2Y547.D	No MS or GC data present												X	OI heater error

Date: 2/15/2010 Method 8260/624 Operator: CDS1
REVIEWED BY: _____
DATE: _____
Daily Instrument Readings: _____
Multiplier Voltage: 1376

HARDWARE CONFIGURATION & METHOD CONDITIONS SUMMARY No# 1

CALIBRATION & CC INFORMATION:

Initial Calibration Date: 2/08/2010, 02/09/2010
(See pg. 36-37 for ICAI Std. Ids)
NaHSO4 lot # N/A
CI test lot # N/A
Sequence Number: 021510V2

Daily Standard Volume Added for Purge (ul)
Solution ID# CCV W2VM100215-01
IS UVM100203-01 1 1 1
SS UVM100203-02 1 1 1
LCS/MS W2VM100215-02/03 5+5
BFB UVM100203-02 1
SHORT W2VM100215-04 5 5

Purge Amount
5 Water Purge Vol:
5 Soil Purge Wt.
Mid level ext. MeOH Vol:
ul
Methanol Lot #
X Heated Purge

Analysis Date	Time	Data File	Lab Sample ID	Client	Batch #	Wt.(g) or Vol.(ml/ul)	Dil.	Factor	pH	AS Slot #	Matrix	Analyst	CI test (Y/N)	Acceptance ble(O/X)	Comments
2/15/2010	6:42	2Z101.D	UVM100203-02	-----	BFB	5mL	1	N/A	1	W	CDS1	N/A	O		
2/15/2010	7:09	2Z102.D	W2VM100215-01	-----	CCV	5mL	1	N/A	2	W	CDS1	N/A	O		UVM100106-07C-UVM100202-07B
2/15/2010	7:38	2Z103.D	W2VM100215-02	-----	LCS	5mL	1	N/A	3	W	CDS1	N/A	O		UVM100126-01D-UVM100214-01
2/15/2010	8:07	2Z104.D	W2VM100215-03	-----	LCS	5g	1	N/A	4	S	CDS1	N/A	O		UVM100126-01D-UVM100214-01
2/15/2010	8:36	2Z105.D	W2VM100215-04	-----	CCV/LCS	5g	1	N/A	5	S	CDS1	N/A	O		UVM091216-08B
2/15/2010	9:05	2Z106.D	120203-0000	-----	BLANK	5mL	1	N/A	6	W	CDS1	N/A	O		
2/15/2010	9:34	2Z107.D	120203-0000	-----	BLANK	5G	1	N/A	7	S	CDS1	N/A	O		SOIL
2/15/2010	10:03	2Z108.D	246136020	WASP	952632	5G	1	N/A	8	S	CDS1	N/A	X		IS low, see 2Z114
2/15/2010	10:32	2Z109.D	246135002	LANL	952573	5G	1	N/A	9	S	CDS1	N/A	O		
2/15/2010	11:00	2Z110.D	246434010	LANL	952586	5G	1	N/A	10	S	CDS1	N/A	O		
2/15/2010	11:29	2Z111.D	246434011	LANL	952573	5G	1	N/A	11	S	CDS1	N/A	X		rep c/o, see 2Z115
2/15/2010	11:59	2Z112.D	246434013	LANL	952586	5G	1	N/A	12	S	CDS1	N/A	O		
2/15/2010	12:27	2Z113.D	246434015	LANL	952586	5G	1	N/A	13	S	CDS1	N/A	O		
2/15/2010	12:56	2Z114.D	246136020	WASP	952632	5G	1	N/A	14	S	CDS1	N/A	O		
2/15/2010	13:26	2Z115.D	246434011	LANL	952586	5G	1	N/A	15	S	CDS1	N/A	O		
2/15/2010	13:55	2Z116.D	246136015	WASP	952632	5G	1	N/A	16	S	CDS1	N/A	O		
2/15/2010	14:24	2Z117.D	246136016	WASP	952632	5G	1	N/A	17	S	CDS1	N/A	O		
2/15/2010	14:52	2Z118.D	246136017	WASP	952632	5G	1	N/A	18	S	CDS1	N/A	O		
2/15/2010	15:22	2Z119.D	246136018	WASP	952632	5G	1	N/A	19	S	CDS1	N/A	O		
2/15/2010	15:51	2Z120.D	246136019	WASP	952632	5G	1	N/A	20	S	CDS1	N/A	O		
2/15/2010	16:19	2Z121.D	1202041662	PNTX	952573	5G	1	N/A	21	S	CDS1	N/A	O		MS 246075001
2/15/2010	16:48	2Z122.D	1202041663	PNTX	952573	5G	1	N/A	22	S	CDS1	N/A	O		MSD 246075001
2/15/2010	17:17	2Z123.D	1202041666	LANL	952573	5G	1	N/A	23	S	CDS1	N/A	X		MS 246315002 not needed
2/15/2010	17:49	2Z124.D	1202041684	LANL	952586	5G	1	N/A	25	S	CDS1	N/A	O		MS 246434015
2/15/2010	18:18	2Z125.D	1202041685	LANL	952586	5G	1	N/A	26	S	CDS1	N/A	O		MSD 246434015

DATA EXCEPTION REPORT

Mo. Day Yr. 16-FEB-10	Division: Federal	Quality Criteria: Specifications	Type: Process
Instrument Type: VOA GC/MS	Test / Method: 8260	Matrix Type: Solid	Client Code: LANL010
Batch ID: 952586	Sample Numbers: all		

Potentially affected work order(s)(SDG): 246338(10-1605),246434(10-1620)

Application Issues:

Failed RPD for MS/MSD, or PS/PSD

Failed Recovery for LCS/LCSD

**Specification and Requirements
Exception Description:**

DER Disposition:

1. The recovery for Bromomethane was outside of acceptance limits in LCS 1202041686.

Bromomethane 141% limits: 70-126%

2. The calculated RPD's between the matrix spike and matrix spike duplicate pair for 2-Butanone and Acetone were outside of the acceptance limits.

2-Butanone 21.5% limit: 21%
Acetone 29% limit: 22%

1. Narrate and report data. The total number of compounds with unacceptable recoveries was less than five percent of the number of client requested analytes. The client's acceptance criteria was satisfied.

2. Narrate and report data.

Originator's Name:

Crystal Stacey 16-FEB-10

Data Validator/Group Leader:

Sarah Kozlik 22-FEB-10

GC/MS Semivolatile Analysis

**Semi-Volatile Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1620**

Method/Analysis Information

Procedure:	Analysis of Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry
Analytical Method:	SW846 8270C
Prep Method:	SW846 3550B
Analytical Batch Number:	951989
Prep Batch Number:	951987

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8270C:

Sample ID	Client ID
246434002	RE15-10-8354
246434003	RE15-10-8356
246434004	RE15-10-8353
246434005	RE15-10-8352
246434006	RE15-10-8355
246434007	RE15-10-8351
246434008	RE15-10-8350
246434009	RE15-10-8357
246434010	RE15-10-8338
246434011	RE15-10-8336
246434012	RE15-10-8339
246434013	RE15-10-8337
246434014	RE15-10-8375
246434015	RE15-10-8374
1202040333	Method Blank (MB)
1202040334	Laboratory Control Sample (LCS)
1202040335	246442002(RE15-10-8361) Matrix Spike (MS)
1202040336	246442002(RE15-10-8361) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on a "dry weight" basis.

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-009 REV# 23.

Raw data reports are processed and reviewed by the analyst using the Target software package. False positives have been removed from the Target quantitation reports per standard operating procedures (SOP) section 18.2.

Calibration Information

Please note that the 'Cal Date' indicated on each quantitation report reflects the date and time of the most recent calibrated analyte(s) in the Target processing method. Since the laboratory may calibrate with multiple solutions on different days using the same processing method, the Target software will update the 'Cal Date' to the last calibration file, date and time. The correct dates and times for all calibration files are located on the Calibration History report in the Standard Data section in the data package.

Due to software limitations, the Calibration Summary Form 6 may not indicate all the calibration files comprising the initial calibration. A complete list of the initial calibration data files are shown in the Calibration History report located in the Standard Data section of the data package. Please note that the second level of the initial calibration (5 mg/L) is only used for n-Nitrosodipropylamine. The various calibration mixes may not be calibrated using all of the calibration levels. In addition, not all of the mixes are calibrated using the same levels.

Diphenylamine has now superseded N-Nitroso-diphenylamine as a CCC on Quantitation Reports, Initial Calibration Reports, Calibration Check Standard Reports, etc. Previous versions of EPA Method 8270 (prior to 8270C) listed N-Nitroso-diphenylamine as a CCC. However, as stated in EPA Method 8270C, Revision 3, December, 1996, Section 1.4.5, "N-Nitroso-diphenylamine decomposes in the gas chromatographic inlet and cannot be separated from Diphenylamine." Studies of these two compounds at GEL, both independent of each other and together, show that they not only co-elute, but also have similar mass spectra. N-Nitroso-diphenylamine and Diphenylamine will be reported as Diphenylamine on all reports and forms. 2,4-Toluene diisocyanate rapidly hydrolyzes in water (half-life less than 30 minutes). Therefore, recoveries of this compound from aqueous matrices should not be expected. In addition, in solid matrices, 2,4-Toluene diisocyanate often reacts with alcohols and amines to produce urethane and ureas and consequently cannot usually coexist in a solution containing these materials. 2,4-Toluene diisocyanate is reported as an estimated value.

The linear equation used in Target and indicated on the initial calibration summary form is not a conventional linear equation (slope intercept formula) and does not match the equation found in SW-846 method 8000B. The x and y axes are inversed in Target, so that the instrument response is treated as the independent variable (x) and the concentration ratio is treated as the dependent variable (y). The equation used in Target to calculate sample results is adjusted to account for the linear equation inversion and reciprocal slope. The adjusted calculation has been independently verified to produce valid results.

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG). A second source initial calibration verification (ICV) was included in the standard section directly behind the initial calibration.

CCV Requirements

All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

All the surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

Sample 246442002 (RE15-10-8361) was selected for analysis as the matrix spike/matrix spike duplicate.

Matrix Spike (MS) Recovery Statement

The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD(s) between the MS and MSD met the acceptance limits.

Internal Standard (ISTD) Acceptance

The internal standard responses were outside of the acceptance criteria for the following sample: 246434003 (RE15-10-8356). The sample was re-analyzed and the failures were confirmed. The first analysis data were reported. The re-analysis raw data have been placed in the Miscellaneous Section.

Technical Information**Holding Time Specifications**

All samples in this SDG met the specified holding time. GEL assigns holding times based on the associated methodology that assigns the date and time from sample collection or sample receipt. Those holding times expressed in hours are calculated in the ALPHALIMS system. Those holding times expressed as days expire at midnight on the day of expiration.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG except for confirmations and/or dilutions.

Miscellaneous Information**Data Exception (DER) Documentation**

Data exception reports (DERs) are generated to document procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Manual Integrations

Some initial calibration standards, continuing calibration standards, and/or samples may require manual integrations due to software limitations. Please see the raw data in the Miscellaneous Section.

Additional Comments

Additional comments were not required for this SDG.

Electronic Package Comment

The following package was generated using an electronic data processing program referred to as "virtual packaging". In an effort to increase quality and efficiency, the laboratory is developing systems to eventually generate all data packages electronically. The following change from "traditional" packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative of each electronic package will indicate the analyst, reviewer, and report specialist names associated with the generation of the data and package. The

data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

System Configuration

The samples reported in this SDG were analyzed on one or more of the following instrument systems. Instrument systems are referenced in the raw data and individual form headers by the Instrument ID designations listed below:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
MSD4.I	HP Mass Spectrometer	HP6890/HP5973	DB-5MS	25m x 0.2mm, 0.33um (5% Phenylmethylpolysiloxane)

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

Reviewer: Don Reaching Date: 3-5-10

Roadmap for LANL 10-1620 SVOA

This roadmap was analyzed by jos00786 on 02-23-2010, 08:48.

This roadmap was reviewed by jcb on 02-25-2010, 12:37.

Sample										
exclude	manual	datafile	smplid	injdate	inftime	sublist	clientid	dilution	batchid	comment
<input type="checkbox"/>	N	/chem/MSD4.i/s022010.b/s4b2026.d	246434002	20-FEB-2010	19:58	10-1620.sub	RE15-10-8354	1	951989	REPORT
<input type="checkbox"/>	N	/chem/MSD4.i/s022010.b/s4b2027.d	246434003	20-FEB-2010	20:20	10-1620.sub	RE15-10-8356	1	951989	REPORT: fails ISTD - rerun s4b2137 confirms failure
<input checked="" type="checkbox"/>	N	/chem/MSD4.i/s022010.b/s4b2028.d	246434004	20-FEB-2010	20:42	10-1620.sub	RE15-10-8353	1	951989	DUSE: fails ISTD - see rerun s4b2110
<input type="checkbox"/>	N	/chem/MSD4.i/s022010.b/s4b2029.d	246434005	20-FEB-2010	21:05	10-1620.sub	RE15-10-8352	1	951989	REPORT
<input checked="" type="checkbox"/>	N	/chem/MSD4.i/s022010.b/s4b2030.d	246434006	20-FEB-2010	21:27	10-1620.sub	RE15-10-8355	1	951989	DUSE: fails ISTD - see rerun s4b2111
<input checked="" type="checkbox"/>	N	/chem/MSD4.i/s022010.b/s4b2031.d	246434007	20-FEB-2010	21:49	10-1620.sub	RE15-10-8351	1	951989	DUSE: fails ISTD - see rerun s4b2112
<input checked="" type="checkbox"/>	N	/chem/MSD4.i/s022010.b/s4b2032.d	246434008	20-FEB-2010	22:11	10-1620.sub	RE15-10-8350	1	951989	DUSE: fails ISTD - see rerun s4b2113
<input checked="" type="checkbox"/>	N	/chem/MSD4.i/s022010.b/s4b2033.d	246434009	20-FEB-2010	22:33	10-1620.sub	RE15-10-8357	1	951989	DUSE: fails ISTD - see rerun s4b2114
<input checked="" type="checkbox"/>	N	/chem/MSD4.i/s022010.b/s4b2034.d	246434010	20-FEB-2010	22:55	10-1620.sub	RE15-10-8338	1	951989	DUSE: fails ISTD - see rerun s4b2115
<input checked="" type="checkbox"/>	N	/chem/MSD4.i/s022010.b/s4b2035.d	246434011	20-FEB-2010	23:18	10-1620.sub	RE15-10-8336	1	951989	DUSE: fails ISTD - see rerun s4b2116
<input checked="" type="checkbox"/>	N	/chem/MSD4.i/s022010.b/s4b2036.d	246434012	20-FEB-2010	23:40	10-1620.sub	RE15-10-8339	1	951989	DUSE: fails ISTD - see rerun s4b2117
<input checked="" type="checkbox"/>	N	/chem/MSD4.i/s022010.b/s4b2037.d	246434013	21-FEB-2010	00:02	10-1620.sub	RE15-10-8357	1	951989	DUSE: fails ISTD - see rerun s4b2118
<input checked="" type="checkbox"/>	N	/chem/MSD4.i/s022010.b/s4b2038.d	246434014	21-FEB-2010	00:24	10-1620.sub	RE15-10-8375	1	951989	DUSE: fails ISTD - see rerun s4b2119
<input checked="" type="checkbox"/>	N	/chem/MSD4.i/s022010.b/s4b2039.d	246434015	21-FEB-2010	00:47	10-1620.sub	RE15-10-8374	1	951989	DUSE: fails ISTD - see rerun s4b2120
<input checked="" type="checkbox"/>	N	/chem/MSD4.i/s022110a.b/s4b2109.d	246434002	21-FEB-2010	12:47	10-1620.sub	RE15-10-8354	1	951989	DUSE: rerun not needed - see s4b2026
<input type="checkbox"/>	N	/chem/MSD4.i/s022110a.b/s4b2110.d	246434004	21-FEB-2010	13:10	10-1620.sub	RE15-10-8353	1	951989	REPORT
<input type="checkbox"/>	N	/chem/MSD4.i/s022110a.b/s4b2111.d	246434006	21-FEB-2010	13:32	10-1620.sub	RE15-10-8355	1	951989	REPORT
<input type="checkbox"/>	N	/chem/MSD4.i/s022110a.b/s4b2112.d	246434007	21-FEB-2010	13:54	10-1620.sub	RE15-10-8351	1	951989	REPORT
<input type="checkbox"/>	N	/chem/MSD4.i/s022110a.b/s4b2113.d	246434008	21-FEB-2010	14:17	10-1620.sub	RE15-10-8350	1	951989	REPORT
<input type="checkbox"/>	N	/chem/MSD4.i/s022110a.b/s4b2114.d	246434009	21-FEB-2010	14:40	10-1620.sub	RE15-10-8357	1	951989	REPORT
<input type="checkbox"/>	N	/chem/MSD4.i/s022110a.b/s4b2115.d	246434010	21-FEB-2010	15:02	10-1620.sub	RE15-10-8338	1	951989	REPORT
<input type="checkbox"/>	N	/chem/MSD4.i/s022110a.b/s4b2116.d	246434011	21-FEB-2010	15:25	10-1620.sub	RE15-10-8336	1	951989	REPORT
<input type="checkbox"/>	N	/chem/MSD4.i/s022110a.b/s4b2117.d	246434012	21-FEB-2010	15:48	10-1620.sub	RE15-10-8339	1	951989	REPORT
<input type="checkbox"/>	N	/chem/MSD4.i/s022110a.b/s4b2118.d	246434013	21-FEB-2010	16:11	10-1620.sub	RE15-10-8337	1	951989	REPORT
<input type="checkbox"/>	N	/chem/MSD4.i/s022110a.b/s4b2119.d	246434014	21-FEB-2010	16:33	10-1620.sub	RE15-10-8375	1	951989	REPORT

<input type="checkbox"/>	N	/chem/MSD4.i/s022110a.b/s4b2120.d	246434015	21-FEB-2010	16:36	10-1620.sub	RE15-10-8374	1	951989	REPORT
<input checked="" type="checkbox"/>	N	/chem/MSD4.i/s022110a.b/s4b2137.d	246434003	21-FEB-2010	23:16	10-1620.sub	RE15-10-8356	1	951989	DUSE: serun of s4b2027 - confirmation of ISO failure

QC Sample

exclude	manual	datafile	smpid	sampletype	injdate	injtime	sublist	clientid	dilution	batchid	comment
<input type="checkbox"/>	N	/chem/MSD4.i/s022010.b/s4b2015-1.d	1202040333	mb	20-FEB-2010	15:50	10-1620.sub	SBLK01	1	951989	REPORT
<input type="checkbox"/>	N	/chem/MSD4.i/s022010.b/s4b2016-1.d	1202040334	lcs	20-FEB-2010	16:13	10-1620.sub	SBLK01LCS	1	951989	REPORT

Sample Data Summary

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434011	Date Received: 02/06/2010 09:15	%Moisture: 17.6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8336	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.1	Dilution: 1
Run Date: 02/21/2010 15:25	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s4b2116.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	403	ug/kg	80.5	403
108-95-2	Phenol	U	403	ug/kg	80.5	403
95-57-8	2-Chlorophenol	U	403	ug/kg	80.5	403
106-46-7	1,4-Dichlorobenzene	U	403	ug/kg	80.5	403
621-64-7	N-Nitrosodipropylamine	U	403	ug/kg	80.5	403
59-50-7	4-Chloro-3-methylphenol	U	403	ug/kg	80.5	403
83-32-9	Acenaphthene	U	40.3	ug/kg	13.3	40.3
121-14-2	2,4-Dinitrotoluene	U	403	ug/kg	40.3	403
100-02-7	4-Nitrophenol	U	403	ug/kg	133	403
87-86-5	Pentachlorophenol	U	403	ug/kg	101	403
129-00-0	Pyrene	U	40.3	ug/kg	12.1	40.3
110-86-1	Pyridine	U	403	ug/kg	80.5	403
62-53-3	Aniline	U	403	ug/kg	121	403
111-44-4	bis(2-Chloroethyl) ether	U	403	ug/kg	80.5	403
541-73-1	1,3-Dichlorobenzene	U	403	ug/kg	80.5	403
100-51-6	Benzyl alcohol	U	403	ug/kg	121	403
95-50-1	1,2-Dichlorobenzene	U	403	ug/kg	80.5	403
108-60-1	bis(2-Chloroisopropyl)ether	U	403	ug/kg	80.5	403
95-48-7	o-Cresol	U	403	ug/kg	80.5	403
65794-96-9	m,p-Cresols	U	403	ug/kg	121	403
67-72-1	Hexachloroethane	U	403	ug/kg	80.5	403
98-95-3	Nitrobenzene	U	403	ug/kg	80.5	403
78-59-1	Isophorone	U	403	ug/kg	80.5	403
88-75-5	2-Nitrophenol	U	403	ug/kg	80.5	403
105-67-9	2,4-Dimethylphenol	U	403	ug/kg	141	403
111-91-1	bis(2-Chloroethoxy)methane	U	403	ug/kg	80.5	403
120-83-2	2,4-Dichlorophenol	U	403	ug/kg	80.5	403
65-85-0	Benzoic acid	U	805	ug/kg	201	805
91-20-3	Naphthalene	U	40.3	ug/kg	12.1	40.3
106-47-8	4-Chloroaniline	U	403	ug/kg	80.5	403
87-68-3	Hexachlorobutadiene	U	403	ug/kg	80.5	403
91-57-6	2-Methylnaphthalene	U	40.3	ug/kg	8.05	40.3
77-47-4	Hexachlorocyclopentadiene	U	403	ug/kg	80.5	403
88-06-2	2,4,6-Trichlorophenol	U	403	ug/kg	80.5	403
95-95-4	2,4,5-Trichlorophenol	U	403	ug/kg	80.5	403
91-58-7	2-Chloronaphthalene	U	40.3	ug/kg	13.3	40.3
88-74-4	2-Nitroaniline	U	403	ug/kg	80.5	403
99-09-2	<i>o</i> -Nitroaniline	U	403	ug/kg	80.5	403
	3-Nitroaniline					

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434011	Date Received: 02/06/2010 09:15	%Moisture: 17.6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8336	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4J	Dilution: 1
Run Date: 02/21/2010 15:25	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s4b2116.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	403	ug/kg	80.5	403
606-20-2	2,6-Dinitrotoluene	U	403	ug/kg	40.3	403
208-96-8	Acenaphthylene	U	40.3	ug/kg	12.1	40.3
51-28-5	2,4-Dinitrophenol	U	805	ug/kg	153	805
132-64-9	Dibenzofuran	U	403	ug/kg	80.5	403
84-66-2	Diethylphthalate	U	403	ug/kg	80.5	403
86-73-7	Fluorene	U	40.3	ug/kg	12.1	40.3
7005-72-3	4-Chlorophenylphenylether	U	403	ug/kg	80.5	403
534-52-1	2-Methyl-4,6-dinitrophenol	U	403	ug/kg	80.5	403
100-01-6	4-Nitroaniline	U	403	ug/kg	121	403
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	403	ug/kg	80.5	403
122-66-7	Azobenzene	U	403	ug/kg	80.5	403
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	403	ug/kg	80.5	403
118-74-1	Hexachlorobenzene	U	403	ug/kg	80.5	403
85-01-8	Phenanthrene	U	40.3	ug/kg	12.1	40.3
120-12-7	Anthracene	U	40.3	ug/kg	8.05	40.3
84-74-2	Di-n-butylphthalate	U	403	ug/kg	80.5	403
206-44-0	Fluoranthene	U	40.3	ug/kg	12.1	40.3
85-68-7	Butylbenzylphthalate	U	403	ug/kg	80.5	403
56-55-3	Benzo(a)anthracene	U	40.3	ug/kg	12.1	40.3
91-94-1	3,3'-Dichlorobenzidine	U	403	ug/kg	121	403
218-01-9	Chrysene	U	40.3	ug/kg	12.1	40.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	403	ug/kg	80.5	403
117-84-0	Di-n-octylphthalate	U	403	ug/kg	80.5	403
205-99-2	Benzo(b)fluoranthene	U	40.3	ug/kg	12.1	40.3
207-08-9	Benzo(k)fluoranthene	U	40.3	ug/kg	12.1	40.3
50-32-8	Benzo(a)pyrene	U	40.3	ug/kg	12.1	40.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	40.3	ug/kg	12.1	40.3
53-70-3	Dibenzo(a,h)anthracene	U	40.3	ug/kg	12.1	40.3
191-24-2	Benzo(ghi)perylene	U	40.3	ug/kg	12.1	40.3
120-82-1	1,2,4-Trichlorobenzene	U	403	ug/kg	80.5	403

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.94	404	ug/kg		J
	Unknown	9.41	590	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434013	Date Received: 02/06/2010 09:15	%Moisture: 11.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8337	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 16:11	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.02 g	Final Volume: 1 mL
Data File: s4b2118.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	376	ug/kg	75.2	376
108-95-2	Phenol	U	376	ug/kg	75.2	376
95-57-8	2-Chlorophenol	U	376	ug/kg	75.2	376
106-46-7	1,4-Dichlorobenzene	U	376	ug/kg	75.2	376
621-64-7	N-Nitrosodipropylamine	U	376	ug/kg	75.2	376
59-50-7	4-Chloro-3-methylphenol	U	376	ug/kg	75.2	376
83-32-9	Acenaphthene	U	37.6	ug/kg	12.4	37.6
121-14-2	2,4-Dinitrotoluene	U	376	ug/kg	37.6	376
100-02-7	4-Nitrophenol	U	376	ug/kg	124	376
87-86-5	Pentachlorophenol	U	376	ug/kg	94.0	376
129-00-0	Pyrene	U	37.6	ug/kg	11.3	37.6
110-86-1	Pyridine	U	376	ug/kg	75.2	376
62-53-3	Aniline	U	376	ug/kg	113	376
111-44-4	bis(2-Chloroethyl) ether	U	376	ug/kg	75.2	376
541-73-1	1,3-Dichlorobenzene	U	376	ug/kg	75.2	376
100-51-6	Benzyl alcohol	U	376	ug/kg	113	376
95-50-1	1,2-Dichlorobenzene	U	376	ug/kg	75.2	376
108-60-1	bis(2-Chloroisopropyl)ether	U	376	ug/kg	75.2	376
95-48-7	o-Cresol	U	376	ug/kg	75.2	376
65794-96-9	m,p-Cresols	U	376	ug/kg	113	376
67-72-1	Hexachloroethane	U	376	ug/kg	75.2	376
98-95-3	Nitrobenzene	U	376	ug/kg	75.2	376
78-59-1	Isophorone	U	376	ug/kg	75.2	376
88-75-5	2-Nitrophenol	U	376	ug/kg	75.2	376
105-67-9	2,4-Dimethylphenol	U	376	ug/kg	132	376
111-91-1	bis(2-Chloroethoxy)methane	U	376	ug/kg	75.2	376
120-83-2	2,4-Dichlorophenol	U	376	ug/kg	75.2	376
65-85-0	Benzoic acid	U	752	ug/kg	188	752
91-20-3	Naphthalene	U	37.6	ug/kg	11.3	37.6
106-47-8	4-Chloroaniline	U	376	ug/kg	75.2	376
87-68-3	Hexachlorobutadiene	U	376	ug/kg	75.2	376
91-57-6	2-Methylnaphthalene	U	37.6	ug/kg	7.52	37.6
77-47-4	Hexachlorocyclopentadiene	U	376	ug/kg	75.2	376
88-06-2	2,4,6-Trichlorophenol	U	376	ug/kg	75.2	376
95-95-4	2,4,5-Trichlorophenol	U	376	ug/kg	75.2	376
91-58-7	2-Chloronaphthalene	U	37.6	ug/kg	12.4	37.6
88-74-4	2-Nitroaniline	U	376	ug/kg	75.2	376
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	376	ug/kg	75.2	376

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434013

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.1
Analyst: JMB3
Aliquot: 30.02 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 11.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	376	ug/kg	75.2	376
606-20-2	2,6-Dinitrotoluene	U	376	ug/kg	37.6	376
208-96-8	Acenaphthylene	U	37.6	ug/kg	11.3	37.6
51-28-5	2,4-Dinitrophenol	U	752	ug/kg	143	752
132-64-9	Dibenzofuran	U	376	ug/kg	75.2	376
84-66-2	Diethylphthalate	U	376	ug/kg	75.2	376
86-73-7	Fluorene	U	37.6	ug/kg	11.3	37.6
7005-72-3	4-Chlorophenylphenylether	U	376	ug/kg	75.2	376
534-52-1	2-Methyl-4,6-dinitrophenol	U	376	ug/kg	75.2	376
100-01-6	4-Nitroaniline	U	376	ug/kg	113	376
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	376	ug/kg	75.2	376
122-66-7	Azobenzene	U	376	ug/kg	75.2	376
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	376	ug/kg	75.2	376
118-74-1	Hexachlorobenzene	U	376	ug/kg	75.2	376
85-01-8	Phenanthrene	U	37.6	ug/kg	11.3	37.6
120-12-7	Anthracene	U	37.6	ug/kg	7.52	37.6
84-74-2	Di-n-butylphthalate	U	376	ug/kg	75.2	376
206-44-0	Fluoranthene	U	37.6	ug/kg	11.3	37.6
85-68-7	Butylbenzylphthalate	U	376	ug/kg	75.2	376
56-55-3	Benzo(a)anthracene	U	37.6	ug/kg	11.3	37.6
91-94-1	3,3'-Dichlorobenzidine	U	376	ug/kg	113	376
218-01-9	Chrysene	U	37.6	ug/kg	11.3	37.6
117-81-7	bis(2-Ethylhexyl)phthalate	U	376	ug/kg	75.2	376
117-84-0	Di-n-octylphthalate	U	376	ug/kg	75.2	376
205-99-2	Benzo(b)fluoranthene	U	37.6	ug/kg	11.3	37.6
207-08-9	Benzo(k)fluoranthene	U	37.6	ug/kg	11.3	37.6
50-32-8	Benzo(a)pyrene	U	37.6	ug/kg	11.3	37.6
193-39-5	Indeno(1,2,3-cd)pyrene	U	37.6	ug/kg	11.3	37.6
53-70-3	Dibenzo(a,h)anthracene	U	37.6	ug/kg	11.3	37.6
191-24-2	Benzo(ghi)perylene	U	37.6	ug/kg	11.3	37.6
120-82-1	1,2,4-Trichlorobenzene	U	376	ug/kg	75.2	376

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.94	361	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434010	Date Received: 02/06/2010 09:15	%Moisture: 22.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8338	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 15:02	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s4b2115.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	428	ug/kg	85.5	428
108-95-2	Phenol	U	428	ug/kg	85.5	428
95-57-8	2-Chlorophenol	U	428	ug/kg	85.5	428
106-46-7	1,4-Dichlorobenzene	U	428	ug/kg	85.5	428
621-64-7	N-Nitrosodipropylamine	U	428	ug/kg	85.5	428
59-50-7	4-Chloro-3-methylphenol	U	428	ug/kg	85.5	428
83-32-9	Acenaphthene	U	42.8	ug/kg	14.1	42.8
121-14-2	2,4-Dinitrotoluene	U	428	ug/kg	42.8	428
100-02-7	4-Nitrophenol	U	428	ug/kg	141	428
87-86-5	Pentachlorophenol	U	428	ug/kg	107	428
129-00-0	Pyrene	U	42.8	ug/kg	12.8	42.8
110-86-1	Pyridine	U	428	ug/kg	85.5	428
62-53-3	Aniline	U	428	ug/kg	128	428
111-44-4	bis(2-Chloroethyl) ether	U	428	ug/kg	85.5	428
541-73-1	1,3-Dichlorobenzene	U	428	ug/kg	85.5	428
100-51-6	Benzyl alcohol	U	428	ug/kg	128	428
95-50-1	1,2-Dichlorobenzene	U	428	ug/kg	85.5	428
108-60-1	bis(2-Chloroisopropyl)ether	U	428	ug/kg	85.5	428
95-48-7	o-Cresol	U	428	ug/kg	85.5	428
65794-96-9	m,p-Cresols	U	428	ug/kg	128	428
67-72-1	Hexachloroethane	U	428	ug/kg	85.5	428
98-95-3	Nitrobenzene	U	428	ug/kg	85.5	428
78-59-1	Isophorone	U	428	ug/kg	85.5	428
88-75-5	2-Nitrophenol	U	428	ug/kg	85.5	428
105-67-9	2,4-Dimethylphenol	U	428	ug/kg	150	428
111-91-1	bis(2-Chloroethoxy)methane	U	428	ug/kg	85.5	428
120-83-2	2,4-Dichlorophenol	U	428	ug/kg	85.5	428
65-85-0	Benzoic acid	U	855	ug/kg	214	855
91-20-3	Naphthalene	U	42.8	ug/kg	12.8	42.8
106-47-8	4-Chloroaniline	U	428	ug/kg	85.5	428
87-68-3	Hexachlorobutadiene	U	428	ug/kg	85.5	428
91-57-6	2-Methylnaphthalene	U	42.8	ug/kg	8.55	42.8
77-47-4	Hexachlorocyclopentadiene	U	428	ug/kg	85.5	428
88-06-2	2,4,6-Trichlorophenol	U	428	ug/kg	85.5	428
95-95-4	2,4,5-Trichlorophenol	U	428	ug/kg	85.5	428
91-58-7	2-Chloronaphthalene	U	42.8	ug/kg	14.1	42.8
88-74-4	2-Nitroaniline	U	428	ug/kg	85.5	428
	o-Nitroaniline					
99-09-2	3-Nitroaniline	U	428	ug/kg	85.5	428

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434010	Date Received: 02/06/2010 09:15	%Moisture: 22.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8338	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 15:02	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s4b2115.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	428	ug/kg	85.5	428
606-20-2	2,6-Dinitrotoluene	U	428	ug/kg	42.8	428
208-96-8	Acenaphthylene	U	42.8	ug/kg	12.8	42.8
51-28-5	2,4-Dinitrophenol	U	855	ug/kg	163	855
132-64-9	Dibenzofuran	U	428	ug/kg	85.5	428
84-66-2	Diethylphthalate	U	428	ug/kg	85.5	428
86-73-7	Fluorene	U	42.8	ug/kg	12.8	42.8
7005-72-3	4-Chlorophenylphenylether	U	428	ug/kg	85.5	428
534-52-1	2-Methyl-4,6-dinitrophenol	U	428	ug/kg	85.5	428
100-01-6	4-Nitroaniline	U	428	ug/kg	128	428
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	428	ug/kg	85.5	428
122-66-7	Azobenzene	U	428	ug/kg	85.5	428
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	428	ug/kg	85.5	428
118-74-1	Hexachlorobenzene	U	428	ug/kg	85.5	428
85-01-8	Phenanthrene	U	42.8	ug/kg	12.8	42.8
120-12-7	Anthracene	U	42.8	ug/kg	8.55	42.8
84-74-2	Di-n-butylphthalate	U	428	ug/kg	85.5	428
206-44-0	Fluoranthene	U	42.8	ug/kg	12.8	42.8
85-68-7	Butylbenzylphthalate	U	428	ug/kg	85.5	428
56-55-3	Benzo(a)anthracene	U	42.8	ug/kg	12.8	42.8
91-94-1	3,3'-Dichlorobenzidine	U	428	ug/kg	128	428
218-01-9	Chrysene	U	42.8	ug/kg	12.8	42.8
117-81-7	bis(2-Ethylhexyl)phthalate	U	428	ug/kg	85.5	428
117-84-0	Di-n-octylphthalate	U	428	ug/kg	85.5	428
205-99-2	Benzo(b)fluoranthene	U	42.8	ug/kg	12.8	42.8
207-08-9	Benzo(k)fluoranthene	U	42.8	ug/kg	12.8	42.8
50-32-8	Benzo(a)pyrene	U	42.8	ug/kg	12.8	42.8
193-39-5	Indeno(1,2,3-cd)pyrene	U	42.8	ug/kg	12.8	42.8
53-70-3	Dibenzo(a,h)anthracene	U	42.8	ug/kg	12.8	42.8
191-24-2	Benzo(ghi)perylene	U	42.8	ug/kg	12.8	42.8
120-82-1	1,2,4-Trichlorobenzene	U	428	ug/kg	85.5	428

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.93	315	ug/kg		J
7785-70-8	1R- α -Pinene	3.47	1090	ug/kg	95	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434010	Date Received: 02/06/2010 09:15	%Moisture: 22.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8338	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.J	Dilution: 1
Run Date: 02/21/2010 15:02	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s4b2115.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary			Estimated			
CAS No.	Tentatively Identified Compound (TIC)	RT		Units	Fit	Qual
13466-78-9	3-Carene	3.86	1480	ug/kg	95	NJ
	Unknown	4.23	180	ug/kg		J
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.75	825	ug/kg	99	NJ
	Unknown	8.06	421	ug/kg		J
	Unknown	8.18	226	ug/kg		J
	Unknown	8.43	765	ug/kg		J
	Unknown	9.4	265	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434012	Date Received: 02/06/2010 09:15	%Moisture: 6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8339	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 15:48	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.1 g	Final Volume: 1 mL
Data File: s4b2117.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	353	ug/kg	70.7	353
108-95-2	Phenol	U	353	ug/kg	70.7	353
95-57-8	2-Chlorophenol	U	353	ug/kg	70.7	353
106-46-7	1,4-Dichlorobenzene	U	353	ug/kg	70.7	353
621-64-7	N-Nitrosodipropylamine	U	353	ug/kg	70.7	353
59-50-7	4-Chloro-3-methylphenol	U	353	ug/kg	70.7	353
83-32-9	Acenaphthene	U	35.3	ug/kg	11.7	35.3
121-14-2	2,4-Dinitrotoluene	U	353	ug/kg	35.3	353
100-02-7	4-Nitrophenol	U	353	ug/kg	117	353
87-86-5	Pentachlorophenol	U	353	ug/kg	88.3	353
129-00-0	Pyrene	U	35.3	ug/kg	10.6	35.3
110-86-1	Pyridine	U	353	ug/kg	70.7	353
62-53-3	Aniline	U	353	ug/kg	106	353
111-44-4	bis(2-Chloroethyl) ether	U	353	ug/kg	70.7	353
541-73-1	1,3-Dichlorobenzene	U	353	ug/kg	70.7	353
100-51-6	Benzyl alcohol	U	353	ug/kg	106	353
95-50-1	1,2-Dichlorobenzene	U	353	ug/kg	70.7	353
108-60-1	bis(2-Chloroisopropyl)ether	U	353	ug/kg	70.7	353
95-48-7	o-Cresol	U	353	ug/kg	70.7	353
65794-96-9	m,p-Cresols	U	353	ug/kg	106	353
67-72-1	Hexachloroethane	U	353	ug/kg	70.7	353
98-95-3	Nitrobenzene	U	353	ug/kg	70.7	353
78-59-1	Isophorone	U	353	ug/kg	70.7	353
88-75-5	2-Nitrophenol	U	353	ug/kg	70.7	353
105-67-9	2,4-Dimethylphenol	U	353	ug/kg	124	353
111-91-1	bis(2-Chloroethoxy)methane	U	353	ug/kg	70.7	353
120-83-2	2,4-Dichlorophenol	U	353	ug/kg	70.7	353
65-85-0	Benzoic acid	U	707	ug/kg	177	707
91-20-3	Naphthalene	U	35.3	ug/kg	10.6	35.3
106-47-8	4-Chloroaniline	U	353	ug/kg	70.7	353
87-68-3	Hexachlorobutadiene	U	353	ug/kg	70.7	353
91-57-6	2-Methylnaphthalene	U	35.3	ug/kg	7.07	35.3
77-47-4	Hexachlorocyclopentadiene	U	353	ug/kg	70.7	353
88-06-2	2,4,6-Trichlorophenol	U	353	ug/kg	70.7	353
95-95-4	2,4,5-Trichlorophenol	U	353	ug/kg	70.7	353
91-58-7	2-Chloronaphthalene	U	35.3	ug/kg	11.7	35.3
88-74-4	2-Nitroaniline	U	353	ug/kg	70.7	353
	o-Nitroaniline					
99-09-2	3-Nitroaniline	U	353	ug/kg	70.7	353

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434012

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.1 g
Column: J&W DB-5MS

Matrix: R
% Moisture: 6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	353	ug/kg	70.7	353
606-20-2	2,6-Dinitrotoluene	U	353	ug/kg	35.3	353
208-96-8	Acenaphthylene	U	35.3	ug/kg	10.6	35.3
51-28-5	2,4-Dinitrophenol	U	707	ug/kg	134	707
132-64-9	Dibenzofuran	U	353	ug/kg	70.7	353
84-66-2	Diethylphthalate	U	353	ug/kg	70.7	353
86-73-7	Fluorene	U	35.3	ug/kg	10.6	35.3
7005-72-3	4-Chlorophenylphenylether	U	353	ug/kg	70.7	353
534-52-1	2-Methyl-4,6-dinitrophenol	U	353	ug/kg	70.7	353
100-01-6	4-Nitroaniline	U	353	ug/kg	106	353
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	353	ug/kg	70.7	353
122-66-7	Azobenzene	U	353	ug/kg	70.7	353
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	353	ug/kg	70.7	353
118-74-1	Hexachlorobenzene	U	353	ug/kg	70.7	353
85-01-8	Phenanthrene	U	35.3	ug/kg	10.6	35.3
120-12-7	Anthracene	U	35.3	ug/kg	7.07	35.3
84-74-2	Di-n-butylphthalate	U	353	ug/kg	70.7	353
206-44-0	Fluoranthene	U	35.3	ug/kg	10.6	35.3
85-68-7	Butylbenzylphthalate	U	353	ug/kg	70.7	353
56-55-3	Benzo(a)anthracene	U	35.3	ug/kg	10.6	35.3
91-94-1	3,3'-Dichlorobenzidine	U	353	ug/kg	106	353
218-01-9	Chrysene	U	35.3	ug/kg	10.6	35.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	353	ug/kg	70.7	353
117-84-0	Di-n-octylphthalate	U	353	ug/kg	70.7	353
205-99-2	Benzo(b)fluoranthene	U	35.3	ug/kg	10.6	35.3
207-08-9	Benzo(k)fluoranthene	U	35.3	ug/kg	10.6	35.3
50-32-8	Benzo(a)pyrene	U	35.3	ug/kg	10.6	35.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.3	ug/kg	10.6	35.3
53-70-3	Dibenzo(a,h)anthracene	U	35.3	ug/kg	10.6	35.3
191-24-2	Benzo(ghi)perylene	U	35.3	ug/kg	10.6	35.3
120-82-1	1,2,4-Trichlorobenzene	U	353	ug/kg	70.7	353

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.04	466	ug/kg		J
	Unknown Aldol Condensate	2.93	459	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434008	Date Received: 02/06/2010 09:15	%Moisture: 23.1
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8350	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.1	Dilution: 1
Run Date: 02/21/2010 14:17	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.03 g	Final Volume: 1 mL
Data File: s4b2113.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	433	ug/kg	86.6	433
108-95-2	Phenol	U	433	ug/kg	86.6	433
95-57-8	2-Chlorophenol	U	433	ug/kg	86.6	433
106-46-7	1,4-Dichlorobenzene	U	433	ug/kg	86.6	433
621-64-7	N-Nitrosodipropylamine	U	433	ug/kg	86.6	433
59-50-7	4-Chloro-3-methylphenol	U	433	ug/kg	86.6	433
83-32-9	Acenaphthene	U	43.3	ug/kg	14.3	43.3
121-14-2	2,4-Dinitrotoluene	U	433	ug/kg	43.3	433
100-02-7	4-Nitrophenol	U	433	ug/kg	143	433
87-86-5	Pentachlorophenol	U	433	ug/kg	108	433
129-00-0	Pyrene	U	43.3	ug/kg	13.0	43.3
110-86-1	Pyridine	U	433	ug/kg	86.6	433
62-53-3	Aniline	U	433	ug/kg	130	433
111-44-4	bis(2-Chloroethyl) ether	U	433	ug/kg	86.6	433
541-73-1	1,3-Dichlorobenzene	U	433	ug/kg	86.6	433
100-51-6	Benzyl alcohol	U	433	ug/kg	130	433
95-50-1	1,2-Dichlorobenzene	U	433	ug/kg	86.6	433
108-60-1	bis(2-Chloroisopropyl)ether	U	433	ug/kg	86.6	433
95-48-7	o-Cresol	U	433	ug/kg	86.6	433
65794-96-9	m,p-Cresols	U	433	ug/kg	130	433
67-72-1	Hexachloroethane	U	433	ug/kg	86.6	433
98-95-3	Nitrobenzene	U	433	ug/kg	86.6	433
78-59-1	Isophorone	U	433	ug/kg	86.6	433
88-75-5	2-Nitrophenol	U	433	ug/kg	86.6	433
105-67-9	2,4-Dimethylphenol	U	433	ug/kg	152	433
111-91-1	bis(2-Chloroethoxy)methane	U	433	ug/kg	86.6	433
120-83-2	2,4-Dichlorophenol	U	433	ug/kg	86.6	433
65-85-0	Benzoic acid	U	866	ug/kg	216	866
91-20-3	Naphthalene	U	43.3	ug/kg	13.0	43.3
106-47-8	4-Chloroaniline	U	433	ug/kg	86.6	433
87-68-3	Hexachlorobutadiene	U	433	ug/kg	86.6	433
91-57-6	2-Methylnaphthalene	U	43.3	ug/kg	8.66	43.3
77-47-4	Hexachlorocyclopentadiene	U	433	ug/kg	86.6	433
88-06-2	2,4,6-Trichlorophenol	U	433	ug/kg	86.6	433
95-95-4	2,4,5-Trichlorophenol	U	433	ug/kg	86.6	433
91-58-7	2-Chloronaphthalene	U	43.3	ug/kg	14.3	43.3
88-74-4	2-Nitroaniline	U	433	ug/kg	86.6	433
99-09-2	<i>o</i> -Nitroaniline	U	433	ug/kg	86.6	433
	3-Nitroaniline					

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434008	Date Received: 02/06/2010 09:15	%Moisture: 23.1
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8350	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 14:17	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.03 g	Final Volume: 1 mL
Data File: s4b2113.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	433	ug/kg	86.6	433
606-20-2	2,6-Dinitrotoluene	U	433	ug/kg	43.3	433
208-96-8	Acenaphthylene	U	43.3	ug/kg	13.0	43.3
51-28-5	2,4-Dinitrophenol	U	866	ug/kg	165	866
132-64-9	Dibenzofuran	U	433	ug/kg	86.6	433
84-66-2	Diethylphthalate	U	433	ug/kg	86.6	433
86-73-7	Fluorene	U	43.3	ug/kg	13.0	43.3
7005-72-3	4-Chlorophenylphenylether	U	433	ug/kg	86.6	433
534-52-1	2-Methyl-4,6-dinitrophenol	U	433	ug/kg	86.6	433
100-01-6	4-Nitroaniline	U	433	ug/kg	130	433
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	433	ug/kg	86.6	433
122-66-7	Azobenzene	U	433	ug/kg	86.6	433
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	433	ug/kg	86.6	433
118-74-1	Hexachlorobenzene	U	433	ug/kg	86.6	433
85-01-8	Phenanthrene	U	43.3	ug/kg	13.0	43.3
120-12-7	Anthracene	U	43.3	ug/kg	8.66	43.3
84-74-2	Di-n-butylphthalate	U	433	ug/kg	86.6	433
206-44-0	Fluoranthene	U	43.3	ug/kg	13.0	43.3
85-68-7	Butylbenzylphthalate	U	433	ug/kg	86.6	433
56-55-3	Benzo(a)anthracene	U	43.3	ug/kg	13.0	43.3
91-94-1	3,3'-Dichlorobenzidine	U	433	ug/kg	130	433
218-01-9	Chrysene	U	43.3	ug/kg	13.0	43.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	433	ug/kg	86.6	433
117-84-0	Di-n-octylphthalate	U	433	ug/kg	86.6	433
205-99-2	Benzo(b)fluoranthene	U	43.3	ug/kg	13.0	43.3
207-08-9	Benzo(k)fluoranthene	U	43.3	ug/kg	13.0	43.3
50-32-8	Benzo(a)pyrene	U	43.3	ug/kg	13.0	43.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	43.3	ug/kg	13.0	43.3
53-70-3	Dibenzo(a,h)anthracene	U	43.3	ug/kg	13.0	43.3
191-24-2	Benzo(ghi)perylene	U	43.3	ug/kg	13.0	43.3
120-82-1	1,2,4-Trichlorobenzene	U	433	ug/kg	86.6	433

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.93	513	ug/kg		J
	Unknown	9.41	205	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434007

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.J
Analyst: JMB3
Aliquot: 30.15 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 15.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8351
Batch ID: 951989
Run Date: 02/21/2010 13:54
Prep Date: 02/11/2010 22:25
Data File: s4b2112.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	391	ug/kg	78.2	391
108-95-2	Phenol	U	391	ug/kg	78.2	391
95-57-8	2-Chlorophenol	U	391	ug/kg	78.2	391
106-46-7	1,4-Dichlorobenzene	U	391	ug/kg	78.2	391
621-64-7	N-Nitrosodipropylamine	U	391	ug/kg	78.2	391
59-50-7	4-Chloro-3-methylphenol	U	391	ug/kg	78.2	391
83-32-9	Acenaphthene	U	39.1	ug/kg	12.9	39.1
121-14-2	2,4-Dinitrotoluene	U	391	ug/kg	39.1	391
100-02-7	4-Nitrophenol	U	391	ug/kg	129	391
87-86-5	Pentachlorophenol	U	391	ug/kg	97.7	391
129-00-0	Pyrene	U	39.1	ug/kg	11.7	39.1
110-86-1	Pyridine	U	391	ug/kg	78.2	391
62-53-3	Aniline	U	391	ug/kg	117	391
111-44-4	bis(2-Chloroethyl) ether	U	391	ug/kg	78.2	391
541-73-1	1,3-Dichlorobenzene	U	391	ug/kg	78.2	391
100-51-6	Benzyl alcohol	U	391	ug/kg	117	391
95-50-1	1,2-Dichlorobenzene	U	391	ug/kg	78.2	391
108-60-1	bis(2-Chloroisopropyl)ether	U	391	ug/kg	78.2	391
95-48-7	o-Cresol	U	391	ug/kg	78.2	391
65794-96-9	m,p-Cresols	U	391	ug/kg	117	391
67-72-1	Hexachloroethane	U	391	ug/kg	78.2	391
98-95-3	Nitrobenzene	U	391	ug/kg	78.2	391
78-59-1	Isophorone	U	391	ug/kg	78.2	391
88-75-5	2-Nitrophenol	U	391	ug/kg	78.2	391
105-67-9	2,4-Dimethylphenol	U	391	ug/kg	137	391
111-91-1	bis(2-Chloroethoxy)methane	U	391	ug/kg	78.2	391
120-83-2	2,4-Dichlorophenol	U	391	ug/kg	78.2	391
65-85-0	Benzoic acid	U	782	ug/kg	195	782
91-20-3	Naphthalene	U	39.1	ug/kg	11.7	39.1
106-47-8	4-Chloroaniline	U	391	ug/kg	78.2	391
87-68-3	Hexachlorobutadiene	U	391	ug/kg	78.2	391
91-57-6	2-Methylnaphthalene	U	39.1	ug/kg	7.82	39.1
77-47-4	Hexachlorocyclopentadiene	U	391	ug/kg	78.2	391
88-06-2	2,4,6-Trichlorophenol	U	391	ug/kg	78.2	391
95-95-4	2,4,5-Trichlorophenol	U	391	ug/kg	78.2	391
91-58-7	2-Chloronaphthalene	U	39.1	ug/kg	12.9	39.1
88-74-4	2-Nitroaniline	U	391	ug/kg	78.2	391
99-09-2	<i>o</i> -Nitroaniline					
	3-Nitroaniline	U	391	ug/kg	78.2	391

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434007	Date Received: 02/06/2010 09:15	%Moisture: 15.1
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8351	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 13:54	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.15 g	Final Volume: 1 mL
Data File: s4b2112.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	391	ug/kg	78.2	391
606-20-2	2,6-Dinitrotoluene	U	391	ug/kg	39.1	391
208-96-8	Accnaphthylene	U	39.1	ug/kg	11.7	39.1
51-28-5	2,4-Dinitrophenol	U	782	ug/kg	148	782
132-64-9	Dibenzofuran	U	391	ug/kg	78.2	391
84-66-2	Dicthylphthalate	U	391	ug/kg	78.2	391
86-73-7	Fluorene	U	39.1	ug/kg	11.7	39.1
7005-72-3	4-Chlorophenylphenylether	U	391	ug/kg	78.2	391
534-52-1	2-Methyl-4,6-dinitrophenol	U	391	ug/kg	78.2	391
100-01-6	4-Nitroaniline	U	391	ug/kg	117	391
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	391	ug/kg	78.2	391
122-66-7	Azobenzene	U	391	ug/kg	78.2	391
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	391	ug/kg	78.2	391
118-74-1	Hexachlorobenzene	U	391	ug/kg	78.2	391
85-01-8	Phenanthrene	U	39.1	ug/kg	11.7	39.1
120-12-7	Anthracene	U	39.1	ug/kg	7.82	39.1
84-74-2	Di-n-butylphthalate	U	391	ug/kg	78.2	391
206-44-0	Fluoranthene	U	39.1	ug/kg	11.7	39.1
85-68-7	Butylbenzylphthalate	U	391	ug/kg	78.2	391
56-55-3	Benzo(a)anthracene	U	39.1	ug/kg	11.7	39.1
91-94-1	3,3'-Dichlorobenzidine	U	391	ug/kg	117	391
218-01-9	Chrysene	U	39.1	ug/kg	11.7	39.1
117-81-7	bis(2-Ethylhexyl)phthalate	U	391	ug/kg	78.2	391
117-84-0	Di-n-octylphthalate	U	391	ug/kg	78.2	391
205-99-2	Benzo(b)fluoranthene	U	39.1	ug/kg	11.7	39.1
207-08-9	Benzo(k)fluoranthene	U	39.1	ug/kg	11.7	39.1
50-32-8	Benzo(a)pyrene	U	39.1	ug/kg	11.7	39.1
193-39-5	Indeno(1,2,3-cd)pyrene	U	39.1	ug/kg	11.7	39.1
53-70-3	Dibenzo(a,h)anthracene	U	39.1	ug/kg	11.7	39.1
191-24-2	Benzo(ghi)perylene	U	39.1	ug/kg	11.7	39.1
120-82-1	1,2,4-Trichlorobenzene	U	391	ug/kg	78.2	391

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.94	411	ug/kg		J
7785-70-8	1R-.alpha.-Pinene	3.47	565	ug/kg	95	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434007

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.15 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 15.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
127-91-3	.beta.-Pinene	3.72	1030	ug/kg	94	NJ
498-15-7	Bicyclo[4.1.0]hept-3-ene, 3,7,7-trimethy	3.86	352	ug/kg	97	NJ
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.75	355	ug/kg	99	NJ
	Unknown	8.44	235	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434005	Date Received: 02/06/2010 09:15	%Moisture: 23
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8352	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/20/2010 21:05	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.02 g	Final Volume: 1 mL
Data File: s4b2029.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	433	ug/kg	86.5	433
108-95-2	Phenol	U	433	ug/kg	86.5	433
95-57-8	2-Chlorophenol	U	433	ug/kg	86.5	433
106-46-7	1,4-Dichlorobenzene	U	433	ug/kg	86.5	433
621-64-7	N-Nitrosodipropylamine	U	433	ug/kg	86.5	433
59-50-7	4-Chloro-3-methylphenol	U	433	ug/kg	86.5	433
83-32-9	Acenaphthene	U	43.3	ug/kg	14.3	43.3
121-14-2	2,4-Dinitrotoluene	U	433	ug/kg	43.3	433
100-02-7	4-Nitrophenol	U	433	ug/kg	143	433
87-86-5	Pentachlorophenol	U	433	ug/kg	108	433
129-00-0	Pyrene	U	43.3	ug/kg	13.0	43.3
110-86-1	Pyridine	U	433	ug/kg	86.5	433
62-53-3	Aniline	U	433	ug/kg	130	433
111-44-4	bis(2-Chloroethyl) ether	U	433	ug/kg	86.5	433
541-73-1	1,3-Dichlorobenzene	U	433	ug/kg	86.5	433
100-51-6	Benzyl alcohol	U	433	ug/kg	130	433
95-50-1	1,2-Dichlorobenzene	U	433	ug/kg	86.5	433
108-60-1	bis(2-Chloroisopropyl)ether	U	433	ug/kg	86.5	433
95-48-7	o-Cresol	U	433	ug/kg	86.5	433
65794-96-9	m,p-Cresols	U	433	ug/kg	130	433
67-72-1	Hexachloroethane	U	433	ug/kg	86.5	433
98-95-3	Nitrobenzene	U	433	ug/kg	86.5	433
78-59-1	Isophorone	U	433	ug/kg	86.5	433
88-75-5	2-Nitrophenol	U	433	ug/kg	86.5	433
105-67-9	2,4-Dimethylphenol	U	433	ug/kg	151	433
111-91-1	bis(2-Chloroethoxy)methane	U	433	ug/kg	86.5	433
120-83-2	2,4-Dichlorophenol	U	433	ug/kg	86.5	433
65-85-0	Benzoic acid	U	865	ug/kg	216	865
91-20-3	Naphthalene	U	43.3	ug/kg	13.0	43.3
106-47-8	4-Chloroaniline	U	433	ug/kg	86.5	433
87-68-3	Hexachlorobutadiene	U	433	ug/kg	86.5	433
91-57-6	2-Methylnaphthalene	U	43.3	ug/kg	8.65	43.3
77-47-4	Hexachlorocyclopentadiene	U	433	ug/kg	86.5	433
88-06-2	2,4,6-Trichlorophenol	U	433	ug/kg	86.5	433
95-95-4	2,4,5-Trichlorophenol	U	433	ug/kg	86.5	433
91-58-7	2-Chloronaphthalene	U	43.3	ug/kg	14.3	43.3
88-74-4	2-Nitroaniline	U	433	ug/kg	86.5	433
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	433	ug/kg	86.5	433

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434005	Date Received: 02/06/2010 09:15	% Moisture: 23
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8352	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/20/2010 21:05	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.02 g	Final Volume: 1 mL
Data File: s4b2029.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	433	ug/kg	86.5	433
606-20-2	2,6-Dinitrotoluene	U	433	ug/kg	43.3	433
208-96-8	Acenaphthylene	U	43.3	ug/kg	13.0	43.3
51-28-5	2,4-Dinitrophenol	U	865	ug/kg	164	865
132-64-9	Dibenzofuran	U	433	ug/kg	86.5	433
84-66-2	Diethylphthalate	U	433	ug/kg	86.5	433
86-73-7	Fluorene	U	43.3	ug/kg	13.0	43.3
7005-72-3	4-Chlorophenylphenylether	U	433	ug/kg	86.5	433
534-52-1	2-Methyl-4,6-dinitrophenol	U	433	ug/kg	86.5	433
100-01-6	4-Nitroaniline	U	433	ug/kg	130	433
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	433	ug/kg	86.5	433
122-66-7	Azobenzene	U	433	ug/kg	86.5	433
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	433	ug/kg	86.5	433
118-74-1	Hexachlorobenzene	U	433	ug/kg	86.5	433
85-01-8	Phenanthrene	U	43.3	ug/kg	13.0	43.3
120-12-7	Anthracene	U	43.3	ug/kg	8.65	43.3
84-74-2	Di-n-butylphthalate	U	433	ug/kg	86.5	433
206-44-0	Fluoranthene	U	43.3	ug/kg	13.0	43.3
85-68-7	Butylbenzylphthalate	U	433	ug/kg	86.5	433
56-55-3	Benzo(a)anthracene	U	43.3	ug/kg	13.0	43.3
91-94-1	3,3'-Dichlorobenzidine	U	433	ug/kg	130	433
218-01-9	Chrysene	U	43.3	ug/kg	13.0	43.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	433	ug/kg	86.5	433
117-84-0	Di-n-octylphthalate	U	433	ug/kg	86.5	433
205-99-2	Benzo(b)fluoranthene	U	43.3	ug/kg	13.0	43.3
207-08-9	Benzo(k)fluoranthene	U	43.3	ug/kg	13.0	43.3
50-32-8	Benzo(a)pyrene	U	43.3	ug/kg	13.0	43.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	43.3	ug/kg	13.0	43.3
53-70-3	Dibenzo(a,h)anthracene	U	43.3	ug/kg	13.0	43.3
191-24-2	Benzo(ghi)perylene	U	43.3	ug/kg	13.0	43.3
120-82-1	1,2,4-Trichlorobenzene	U	433	ug/kg	86.5	433

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.1	381	ug/kg		J
	Unknown Aldol Condensate	2.97	644	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434004	Date Received: 02/06/2010 09:15	% Moisture: 13
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8353	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4J	Dilution: 1
Run Date: 02/21/2010 13:10	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.05 g	Final Volume: 1 mL
Data File: s4b2110.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	382	ug/kg	76.5	382
108-95-2	Phenol	U	382	ug/kg	76.5	382
95-57-8	2-Chlorophenol	U	382	ug/kg	76.5	382
106-46-7	1,4-Dichlorobenzene	U	382	ug/kg	76.5	382
621-64-7	N-Nitrosodipropylamine	U	382	ug/kg	76.5	382
59-50-7	4-Chloro-3-methylphenol	U	382	ug/kg	76.5	382
83-32-9	Acenaphthene	U	38.2	ug/kg	12.6	38.2
121-14-2	2,4-Dinitrotoluene	U	382	ug/kg	38.2	382
100-02-7	4-Nitrophenol	U	382	ug/kg	126	382
87-86-5	Pentachlorophenol	U	382	ug/kg	95.6	382
129-00-0	Pyrene	U	38.2	ug/kg	11.5	38.2
110-86-1	Pyridine	U	382	ug/kg	76.5	382
62-53-3	Aniline	U	382	ug/kg	115	382
111-44-4	bis(2-Chloroethyl) ether	U	382	ug/kg	76.5	382
541-73-1	1,3-Dichlorobenzene	U	382	ug/kg	76.5	382
100-51-6	Benzyl alcohol	U	382	ug/kg	115	382
95-50-1	1,2-Dichlorobenzene	U	382	ug/kg	76.5	382
108-60-1	bis(2-Chloroisopropyl) ether	U	382	ug/kg	76.5	382
95-48-7	o-Cresol	U	382	ug/kg	76.5	382
65794-96-9	m,p-Cresols	U	382	ug/kg	115	382
67-72-1	Hexachloroethane	U	382	ug/kg	76.5	382
98-95-3	Nitrobenzene	U	382	ug/kg	76.5	382
78-59-1	Isophorone	U	382	ug/kg	76.5	382
88-75-5	2-Nitrophenol	U	382	ug/kg	76.5	382
105-67-9	2,4-Dimethylphenol	U	382	ug/kg	134	382
111-91-1	bis(2-Chloroethoxy) methane	U	382	ug/kg	76.5	382
120-83-2	2,4-Dichlorophenol	U	382	ug/kg	76.5	382
65-85-0	Benzoic acid	U	765	ug/kg	191	765
91-20-3	Naphthalene	U	38.2	ug/kg	11.5	38.2
106-47-8	4-Chloroaniline	U	382	ug/kg	76.5	382
87-68-3	Hexachlorobutadiene	U	382	ug/kg	76.5	382
91-57-6	2-Methylnaphthalene	U	38.2	ug/kg	7.65	38.2
77-47-4	Hexachlorocyclopentadiene	U	382	ug/kg	76.5	382
88-06-2	2,4,6-Trichlorophenol	U	382	ug/kg	76.5	382
95-95-4	2,4,5-Trichlorophenol	U	382	ug/kg	76.5	382
91-58-7	2-Chloronaphthalene	U	38.2	ug/kg	12.6	38.2
88-74-4	2-Nitroaniline	U	382	ug/kg	76.5	382
	o-Nitroaniline					
99-09-2	3-Nitroaniline	U	382	ug/kg	76.5	382

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434004	Date Received: 02/06/2010 09:15	%Moisture: 13
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8353	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 13:10	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.05 g	Final Volume: 1 mL
Data File: s4b2110.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	382	ug/kg	76.5	382
606-20-2	2,6-Dinitrotoluene	U	382	ug/kg	38.2	382
208-96-8	Acenaphthylene	U	38.2	ug/kg	11.5	38.2
51-28-5	2,4-Dinitrophenol	U	765	ug/kg	145	765
132-64-9	Dibenzofuran	U	382	ug/kg	76.5	382
84-66-2	Diethylphthalate	U	382	ug/kg	76.5	382
86-73-7	Fluorene	U	38.2	ug/kg	11.5	38.2
7005-72-3	4-Chlorophenylphenylether	U	382	ug/kg	76.5	382
534-52-1	2-Methyl-4,6-dinitrophenol	U	382	ug/kg	76.5	382
100-01-6	4-Nitroaniline	U	382	ug/kg	115	382
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	382	ug/kg	76.5	382
122-66-7	Azobenzene	U	382	ug/kg	76.5	382
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	382	ug/kg	76.5	382
118-74-1	Hexachlorobenzene	U	382	ug/kg	76.5	382
85-01-8	Phenanthrene	U	38.2	ug/kg	11.5	38.2
120-12-7	Anthracene	U	38.2	ug/kg	7.65	38.2
84-74-2	Di-n-butylphthalate	U	382	ug/kg	76.5	382
206-44-0	Fluoranthene	U	38.2	ug/kg	11.5	38.2
85-68-7	Butylbenzylphthalate	U	382	ug/kg	76.5	382
56-55-3	Benzo(a)anthracene	U	38.2	ug/kg	11.5	38.2
91-94-1	3,3'-Dichlorobenzidine	U	382	ug/kg	115	382
218-01-9	Chrysene	U	38.2	ug/kg	11.5	38.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	382	ug/kg	76.5	382
117-84-0	Di-n-octylphthalate	U	382	ug/kg	76.5	382
205-99-2	Benzo(b)fluoranthene	U	38.2	ug/kg	11.5	38.2
207-08-9	Benzo(k)fluoranthene	U	38.2	ug/kg	11.5	38.2
50-32-8	Benzo(a)pyrene	U	38.2	ug/kg	11.5	38.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	38.2	ug/kg	11.5	38.2
53-70-3	Dibenzo(a,h)anthracene	U	38.2	ug/kg	11.5	38.2
191-24-2	Benzo(ghi)perylene	U	38.2	ug/kg	11.5	38.2
120-82-1	1,2,4-Trichlorobenzene	U	382	ug/kg	76.5	382

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.05	679	ug/kg		J
	Unknown Aldol Condensate	2.94	468	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434004	Date Received: 02/06/2010 09:15	%Moisture: 13
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8353	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.J	Dilution: 1
Run Date: 02/21/2010 13:10	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.05 g	Final Volume: 1 mL
Data File: s4b2110.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
7785-70-8	1R-.alpha.-Pinene	3.47	639	ug/kg	95	NJ
498-15-7	Bicyclo[4.1.0]hept-3-ene, 3,7,7-trimethy	3.86	599	ug/kg	97	NJ
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.75	198	ug/kg	99	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434002	Date Received: 02/06/2010 09:15	%Moisture: 22
Client ID: RE15-10-8354	Client: LANL010	Project: LANL01004
Batch ID: 951989	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/20/2010 19:58	Inst: MSD4.1	Dilution: 1
Prep Date: 02/11/2010 22:25	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4h2026.d	Aliquot: 30.03 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	427	ug/kg	85.4	427
108-95-2	Phenol	U	427	ug/kg	85.4	427
95-57-8	2-Chlorophenol	U	427	ug/kg	85.4	427
106-46-7	1,4-Dichlorobenzene	U	427	ug/kg	85.4	427
621-64-7	N-Nitrosodipropylamine	U	427	ug/kg	85.4	427
59-50-7	4-Chloro-3-methylphenol	U	427	ug/kg	85.4	427
83-32-9	Acenaphthene	U	42.7	ug/kg	14.1	42.7
121-14-2	2,4-Dinitrotoluene	U	427	ug/kg	42.7	427
100-02-7	4-Nitrophenol	U	427	ug/kg	141	427
87-86-5	Pentachlorophenol	U	427	ug/kg	107	427
129-00-0	Pyrene	U	42.7	ug/kg	12.8	42.7
110-86-1	Pyridine	U	427	ug/kg	85.4	427
62-53-3	Aniline	U	427	ug/kg	128	427
111-44-4	bis(2-Chloroethyl) ether	U	427	ug/kg	85.4	427
541-73-1	1,3-Dichlorobenzene	U	427	ug/kg	85.4	427
100-51-6	Benzyl alcohol	U	427	ug/kg	128	427
95-50-1	1,2-Dichlorobenzene	U	427	ug/kg	85.4	427
108-60-1	bis(2-Chloroisopropyl)ether	U	427	ug/kg	85.4	427
95-48-7	o-Cresol	U	427	ug/kg	85.4	427
65794-96-9	m,p-Cresols	U	427	ug/kg	128	427
67-72-1	Hexachloroethane	U	427	ug/kg	85.4	427
98-95-3	Nitrobenzene	U	427	ug/kg	85.4	427
78-59-1	Isophorone	U	427	ug/kg	85.4	427
88-75-5	2-Nitrophenol	U	427	ug/kg	85.4	427
105-67-9	2,4-Dimethylphenol	U	427	ug/kg	149	427
111-91-1	bis(2-Chloroethoxy)methane	U	427	ug/kg	85.4	427
120-83-2	2,4-Dichlorophenol	U	427	ug/kg	85.4	427
65-85-0	Benzoic acid	U	854	ug/kg	214	854
91-20-3	Naphthalene	U	42.7	ug/kg	12.8	42.7
106-47-8	4-Chloroaniline	U	427	ug/kg	85.4	427
87-68-3	Hexachlorobutadiene	U	427	ug/kg	85.4	427
91-57-6	2-Methylnaphthalene	U	42.7	ug/kg	8.54	42.7
77-47-4	Hexachlorocyclopentadiene	U	427	ug/kg	85.4	427
88-06-2	2,4,6-Trichlorophenol	U	427	ug/kg	85.4	427
95-95-4	2,4,5-Trichlorophenol	U	427	ug/kg	85.4	427
91-58-7	2-Chloronaphthalene	U	42.7	ug/kg	14.1	42.7
88-74-4	2-Nitroaniline	U	427	ug/kg	85.4	427
99-09-2	<i>o</i> -Nitroaniline	U	427	ug/kg	85.4	427
	3-Nitroaniline					

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434002

Client ID: RE15-10-8354
Batch ID: 951989
Run Date: 02/20/2010 19:58
Prep Date: 02/11/2010 22:25
Data File: s4b2026.d

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 22
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	427	ug/kg	85.4	427
606-20-2	2,6-Dinitrotoluene	U	427	ug/kg	42.7	427
208-96-8	Acenaphthylene	U	42.7	ug/kg	12.8	42.7
51-28-5	2,4-Dinitrophenol	U	854	ug/kg	162	854
132-64-9	Dibenzofuran	U	427	ug/kg	85.4	427
84-66-2	Diethylphthalate	U	427	ug/kg	85.4	427
86-73-7	Fluorene	U	42.7	ug/kg	12.8	42.7
7005-72-3	4-Chlorophenylphenylether	U	427	ug/kg	85.4	427
534-52-1	2-Methyl-4,6-dinitrophenol	U	427	ug/kg	85.4	427
100-01-6	4-Nitroaniline	U	427	ug/kg	128	427
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	427	ug/kg	85.4	427
122-66-7	Azobenzene	U	427	ug/kg	85.4	427
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	427	ug/kg	85.4	427
118-74-1	Hexachlorobenzene	U	427	ug/kg	85.4	427
85-01-8	Phenanthrene	U	42.7	ug/kg	12.8	42.7
120-12-7	Anthracene	U	42.7	ug/kg	8.54	42.7
84-74-2	Di-n-butylphthalate	U	427	ug/kg	85.4	427
206-44-0	Fluoranthene	U	42.7	ug/kg	12.8	42.7
85-68-7	Butylbenzylphthalate	U	427	ug/kg	85.4	427
56-55-3	Benzo(a)anthracene	U	42.7	ug/kg	12.8	42.7
91-94-1	3,3'-Dichlorobenzidine	U	427	ug/kg	128	427
218-01-9	Chrysene	U	42.7	ug/kg	12.8	42.7
117-81-7	bis(2-Ethylhexyl)phthalate	U	427	ug/kg	85.4	427
117-84-0	Di-n-octylphthalate	U	427	ug/kg	85.4	427
205-99-2	Benzo(b)fluoranthene	U	42.7	ug/kg	12.8	42.7
207-08-9	Benzo(k)fluoranthene	U	42.7	ug/kg	12.8	42.7
50-32-8	Benzo(a)pyrene	U	42.7	ug/kg	12.8	42.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	42.7	ug/kg	12.8	42.7
53-70-3	Dibenzo(a,h)anthracene	U	42.7	ug/kg	12.8	42.7
191-24-2	Benzo(ghi)perylene	U	42.7	ug/kg	12.8	42.7
120-82-1	1,2,4-Trichlorobenzene	U	427	ug/kg	85.4	427

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.96	278	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434006	Date Received: 02/06/2010 09:15	%Moisture: 12.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8355	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 13:32	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.02 g	Final Volume: 1 mL
Data File: s4b2111.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	382	ug/kg	76.3	382
108-95-2	Phenol	U	382	ug/kg	76.3	382
95-57-8	2-Chlorophenol	U	382	ug/kg	76.3	382
106-46-7	1,4-Dichlorobenzene	U	382	ug/kg	76.3	382
621-64-7	N-Nitrosodipropylamine	U	382	ug/kg	76.3	382
59-50-7	4-Chloro-3-methylphenol	U	382	ug/kg	76.3	382
83-32-9	Acenaphthene	U	38.2	ug/kg	12.6	38.2
121-14-2	2,4-Dinitrotoluene	U	382	ug/kg	38.2	382
100-02-7	4-Nitrophenol	U	382	ug/kg	126	382
87-86-5	Pentachlorophenol	U	382	ug/kg	95.4	382
129-00-0	Pyrene	U	38.2	ug/kg	11.4	38.2
110-86-1	Pyridine	U	382	ug/kg	76.3	382
62-53-3	Aniline	U	382	ug/kg	114	382
111-44-4	bis(2-Chloroethyl) ether	U	382	ug/kg	76.3	382
541-73-1	1,3-Dichlorobenzene	U	382	ug/kg	76.3	382
100-51-6	Benzyl alcohol	U	382	ug/kg	114	382
95-50-1	1,2-Dichlorobenzene	U	382	ug/kg	76.3	382
108-60-1	bis(2-Chloroisopropyl)ether	U	382	ug/kg	76.3	382
95-48-7	o-Cresol	U	382	ug/kg	76.3	382
65794-96-9	m,p-Cresols	U	382	ug/kg	114	382
67-72-1	Hexachloroethane	U	382	ug/kg	76.3	382
98-95-3	Nitrobenzene	U	382	ug/kg	76.3	382
78-59-1	Isophorone	U	382	ug/kg	76.3	382
88-75-5	2-Nitrophenol	U	382	ug/kg	76.3	382
105-67-9	2,4-Dimethylphenol	U	382	ug/kg	134	382
111-91-1	bis(2-Chloroethoxy)methane	U	382	ug/kg	76.3	382
120-83-2	2,4-Dichlorophenol	U	382	ug/kg	76.3	382
65-85-0	Benzoic acid	U	76.3	ug/kg	191	763
91-20-3	Naphthalene	U	38.2	ug/kg	11.4	38.2
106-47-8	4-Chloroaniline	U	382	ug/kg	76.3	382
87-68-3	Hexachlorobutadiene	U	382	ug/kg	76.3	382
91-57-6	2-Methylnaphthalene	U	38.2	ug/kg	7.63	38.2
77-47-4	Hexachlorocyclopentadiene	U	382	ug/kg	76.3	382
88-06-2	2,4,6-Trichlorophenol	U	382	ug/kg	76.3	382
95-95-4	2,4,5-Trichlorophenol	U	382	ug/kg	76.3	382
91-58-7	2-Chloronaphthalene	U	38.2	ug/kg	12.6	38.2
88-74-4	2-Nitroaniline	U	382	ug/kg	76.3	382
	o-Nitroaniline					
99-09-2	3-Nitroaniline	U	382	ug/kg	76.3	382

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434006

Client ID: RE15-10-8355
Batch ID: 951989
Run Date: 02/21/2010 13:32
Prep Date: 02/11/2010 22:25
Data File: s4b2111.d

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.1
Analyst: JMB3
Aliquot: 30.02 g
Column: J&W DB-5MS

Matrix: R
% Moisture: 12.7
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDI/LOD	PQI/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	382	ug/kg	76.3	382
606-20-2	2,6-Dinitrotoluene	U	382	ug/kg	38.2	382
208-96-8	Acenaphthylene	U	38.2	ug/kg	11.4	38.2
51-28-5	2,4-Dinitrophenol	U	763	ug/kg	145	763
132-64-9	Dibenzofuran	U	382	ug/kg	76.3	382
84-66-2	Diethylphthalate	U	382	ug/kg	76.3	382
86-73-7	Fluorene	U	38.2	ug/kg	11.4	38.2
7005-72-3	4-Chlorophenylphenylether	U	382	ug/kg	76.3	382
534-52-1	2-Methyl-4,6-dinitrophenol	U	382	ug/kg	76.3	382
100-01-6	4-Nitroaniline	U	382	ug/kg	114	382
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	382	ug/kg	76.3	382
122-66-7	Azobenzene	U	382	ug/kg	76.3	382
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	382	ug/kg	76.3	382
118-74-1	Hexachlorobenzene	U	382	ug/kg	76.3	382
85-01-8	Phenanthrene	U	38.2	ug/kg	11.4	38.2
120-12-7	Anthracene	U	38.2	ug/kg	7.63	38.2
84-74-2	Di-n-butylphthalate	U	382	ug/kg	76.3	382
206-44-0	Fluoranthene	U	38.2	ug/kg	11.4	38.2
85-68-7	Butylbenzylphthalate	U	382	ug/kg	76.3	382
56-55-3	Benzo(a)anthracene	U	38.2	ug/kg	11.4	38.2
91-94-1	3,3'-Dichlorobenzidine	U	382	ug/kg	114	382
218-01-9	Chrysene	U	38.2	ug/kg	11.4	38.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	382	ug/kg	76.3	382
117-84-0	Di-n-octylphthalate	U	382	ug/kg	76.3	382
205-99-2	Benzo(b)fluoranthene	U	38.2	ug/kg	11.4	38.2
207-08-9	Benzo(k)fluoranthene	U	38.2	ug/kg	11.4	38.2
50-32-8	Benzo(a)pyrene	U	38.2	ug/kg	11.4	38.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	38.2	ug/kg	11.4	38.2
53-70-3	Dibenzo(a,h)anthracene	U	38.2	ug/kg	11.4	38.2
191-24-2	Benzo(ghi)perylene	U	38.2	ug/kg	11.4	38.2
120-82-1	1,2,4-Trichlorobenzene	U	382	ug/kg	76.3	382

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.06	395	ug/kg		J
	Unknown Aldol Condensate	2.94	423	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number:	10-1620	Date Collected:	02/02/2010 12:00	Matrix:	R
Lab Sample ID:	246434006	Date Received:	02/06/2010 09:15	%Moisture:	12.7
		Client:	LANL010	Project:	LANL01004
Client ID:	RE15-10-8355	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	951989	Inst:	MSD4.1	Dilution:	1
Run Date:	02/21/2010 13:32	Analyst:	JMB3	Inj. Vol:	.5 uL
Prep Date:	02/11/2010 22:25	Aliquot:	30.02 g	Final Volume:	1 mL
Data File:	s4b2111.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	
Tentatively Identified Compound Summary							
CAS No.	Tentatively Identified Compound (TIC)		RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim		5.75	261	ug/kg	99	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434003	Date Received: 02/06/2010 09:15	%Moisture: 14.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8356	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.1	Dilution: 1
Run Date: 02/20/2010 20:20	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.14 g	Final Volume: 1 mL
Data File: s4b2027.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	389	ug/kg	77.8	389
108-95-2	Phenol	U	389	ug/kg	77.8	389
95-57-8	2-Chlorophenol	U	389	ug/kg	77.8	389
106-46-7	1,4-Dichlorobenzene	U	389	ug/kg	77.8	389
621-64-7	N-Nitrosodipropylamine	U	389	ug/kg	77.8	389
59-50-7	4-Chloro-3-methylphenol	U	389	ug/kg	77.8	389
83-32-9	Acenaphthene	U	38.9	ug/kg	12.8	38.9
121-14-2	2,4-Dinitrotoluene	U	389	ug/kg	38.9	389
100-02-7	4-Nitrophenol	U	389	ug/kg	128	389
87-86-5	Pentachlorophenol	U	389	ug/kg	97.2	389
129-00-0	Pyrene	U	38.9	ug/kg	11.7	38.9
110-86-1	Pyridine	U	389	ug/kg	77.8	389
62-53-3	Aniline	U	389	ug/kg	117	389
111-44-4	bis(2-Chloroethyl) ether	U	389	ug/kg	77.8	389
541-73-1	1,3-Dichlorobenzene	U	389	ug/kg	77.8	389
100-51-6	Benzyl alcohol	U	389	ug/kg	117	389
95-50-1	1,2-Dichlorobenzene	U	389	ug/kg	77.8	389
108-60-1	bis(2-Chloroisopropyl)ether	U	389	ug/kg	77.8	389
95-48-7	o-Cresol	U	389	ug/kg	77.8	389
65794-96-9	m,p-Cresols	U	389	ug/kg	117	389
67-72-1	Hexachloroethane	U	389	ug/kg	77.8	389
98-95-3	Nitrobenzene	U	389	ug/kg	77.8	389
78-59-1	Isophorone	U	389	ug/kg	77.8	389
88-75-5	2-Nitrophenol	U	389	ug/kg	77.8	389
105-67-9	2,4-Dimethylphenol	U	389	ug/kg	136	389
111-91-1	bis(2-Chloroethoxy)methane	U	389	ug/kg	77.8	389
120-83-2	2,4-Dichlorophenol	U	389	ug/kg	77.8	389
65-85-0	Benzoic acid	U	778	ug/kg	194	778
91-20-3	Naphthalene	U	38.9	ug/kg	11.7	38.9
106-47-8	4-Chloroaniline	U	389	ug/kg	77.8	389
87-68-3	Hexachlorobutadiene	U	389	ug/kg	77.8	389
91-57-6	2-Methylnaphthalene	U	38.9	ug/kg	7.78	38.9
77-47-4	Hexachlorocyclopentadiene	U	389	ug/kg	77.8	389
88-06-2	2,4,6-Trichlorophenol	U	389	ug/kg	77.8	389
95-95-4	2,4,5-Trichlorophenol	U	389	ug/kg	77.8	389
91-58-7	2-Chloronaphthalene	U	38.9	ug/kg	12.8	38.9
88-74-4	2-Nitroaniline	U	389	ug/kg	77.8	389
99-09-2	<i>o</i> -Nitroaniline	U	389	ug/kg	77.8	389
	3-Nitroaniline					

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434003	Date Received: 02/06/2010 09:15	%Moisture: 14.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8356	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/20/2010 20:20	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.14 g	Final Volume: 1 mL
Data File: s4b2027.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	389	ug/kg	77.8	389
606-20-2	2,6-Dinitrotoluene	U	389	ug/kg	38.9	389
208-96-8	Acenaphthylene	U	38.9	ug/kg	11.7	38.9
51-28-5	2,4-Dinitrophenol	U	778	ug/kg	148	778
132-64-9	Dibenzofuran	U	389	ug/kg	77.8	389
84-66-2	Diethylphthalate	U	389	ug/kg	77.8	389
86-73-7	Fluorene	U	38.9	ug/kg	11.7	38.9
7005-72-3	4-Chlorophenylphenylether	U	389	ug/kg	77.8	389
534-52-1	2-Methyl-4,6-dinitrophenol	U	389	ug/kg	77.8	389
100-01-6	4-Nitroaniline	U	389	ug/kg	117	389
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	389	ug/kg	77.8	389
122-66-7	Azobenzene	U	389	ug/kg	77.8	389
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	389	ug/kg	77.8	389
118-74-1	Hexachlorobenzene	U	389	ug/kg	77.8	389
85-01-8	Phenanthrene	U	38.9	ug/kg	11.7	38.9
120-12-7	Anthracene	U	38.9	ug/kg	7.78	38.9
84-74-2	Di-n-butylphthalate	U	389	ug/kg	77.8	389
206-44-0	Fluoranthene	U	38.9	ug/kg	11.7	38.9
85-68-7	Butylbenzylphthalate	U	389	ug/kg	77.8	389
56-55-3	Benzo(a)anthracene	U	38.9	ug/kg	11.7	38.9
91-94-1	3,3'-Dichlorobenzidine	U	389	ug/kg	117	389
218-01-9	Chrysene	U	38.9	ug/kg	11.7	38.9
117-81-7	bis(2-Ethylhexyl)phthalate	U	389	ug/kg	77.8	389
117-84-0	Di-n-octylphthalate	U	389	ug/kg	77.8	389
205-99-2	Benzo(b)fluoranthene	U	38.9	ug/kg	11.7	38.9
207-08-9	Benzo(k)fluoranthene	U	38.9	ug/kg	11.7	38.9
50-32-8	Benzo(a)pyrene	U	38.9	ug/kg	11.7	38.9
193-39-5	Indeno(1,2,3-cd)pyrene	U	38.9	ug/kg	11.7	38.9
53-70-3	Dibenzo(a,h)anthracene	U	38.9	ug/kg	11.7	38.9
191-24-2	Benzo(ghi)perylene	U	38.9	ug/kg	11.7	38.9
120-82-1	1,2,4-Trichlorobenzene	U	389	ug/kg	77.8	389

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.97	625	ug/kg		J
7785-70-8	1R-.alpha.-Pinene	3.5	345	ug/kg	95	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434003	Date Received: 02/06/2010 09:15	%Moisture: 14.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8356	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.1	Dilution: 1
Run Date: 02/20/2010 20:20	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.14 g	Final Volume: 1 mL
Data File: s4b2027.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary			Estimated			
CAS No.	Tentatively Identified Compound (TIC)	RT		Units	Fit	Qual
87-44-5	Caryophyllene	5.79	254	ug/kg	94	NJ
23070-53-3	Cyclododecene, 1-methyl-	6.85	173	ug/kg	89	NJ
57-10-3	n-Hexadecanoic acid	7.29	466	ug/kg	99	NJ
	Unknown	7.49	217	ug/kg		J
112-79-8	9-Octadecenoic acid, (E)-	7.72	740	ug/kg	99	NJ
	Unknown	7.84	210	ug/kg		J
	Unknown	7.91	1040	ug/kg		J
	Unknown	8.11	1260	ug/kg		J
	Unknown	8.14	347	ug/kg		J
1686-62-0	1-Phenanthrenecarboxylic acid, 7-ethenyl	8.21	1070	ug/kg	96	NJ
	Unknown	8.3	2210	ug/kg		J
1000159-38-2	Bicyclo[5.2.0]nonane, 4-methylene-2,8,8-	8.4	315	ug/kg	83	NJ
	Unknown	8.49	3310	ug/kg		J
1740-19-8	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	8.55	1210	ug/kg	93	NJ
	Unknown	8.65	1370	ug/kg		J
	Unknown	8.69	646	ug/kg		J
	Unknown	8.77	824	ug/kg		J
	Unknown	8.9	609	ug/kg		J
	Unknown	9.01	631	ug/kg		J
	Unknown	9.11	1150	ug/kg		J
	Unknown	9.19	946	ug/kg		J
1000159-38-2	Bicyclo[5.2.0]nonane, 4-methylene-2,8,8-	9.23	308	ug/kg	83	NJ
112-95-8	Eicosane	9.69	456	ug/kg	97	NJ
	Unknown	10.59	666	ug/kg		J
	Unknown	10.75	2900	ug/kg		J
	Unknown	11.09	673	ug/kg		J
1000214-20-7	Stigmasterol, 22,23-dihydro-	12.74	2970	ug/kg	99	NJ
1058-61-3	Stigmast-4-en-3-one	13.93	1790	ug/kg	96	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434009

Client ID: RE15-10-8357
Batch ID: 951989
Run Date: 02/21/2010 14:40
Prep Date: 02/11/2010 22:25
Data File: s4b2114.d

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.12 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 6
Project: I.LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	353	ug/kg	70.6	353
108-95-2	Phenol	U	353	ug/kg	70.6	353
95-57-8	2-Chlorophenol	U	353	ug/kg	70.6	353
106-46-7	1,4-Dichlorobenzene	U	353	ug/kg	70.6	353
621-64-7	N-Nitrosodipropylamine	U	353	ug/kg	70.6	353
59-50-7	4-Chloro-3-methylphenol	U	353	ug/kg	70.6	353
83-32-9	Acenaphthene	U	35.3	ug/kg	11.6	35.3
121-14-2	2,4-Dinitrotoluene	U	353	ug/kg	35.3	353
100-02-7	4-Nitrophenol	U	353	ug/kg	116	353
87-86-5	Pentachlorophenol	U	353	ug/kg	88.3	353
129-00-0	Pyrene	U	35.3	ug/kg	10.6	35.3
110-86-1	Pyridine	U	353	ug/kg	70.6	353
62-53-3	Aniline	U	353	ug/kg	106	353
111-44-4	bis(2-Chloroethyl) ether	U	353	ug/kg	70.6	353
541-73-1	1,3-Dichlorobenzene	U	353	ug/kg	70.6	353
100-51-6	Benzyl alcohol	U	353	ug/kg	106	353
95-50-1	1,2-Dichlorobenzene	U	353	ug/kg	70.6	353
108-60-1	bis(2-Chloroisopropyl)ether	U	353	ug/kg	70.6	353
95-48-7	o-Cresol	U	353	ug/kg	70.6	353
65794-96-9	m,p-Cresols	U	353	ug/kg	106	353
67-72-1	Hexachloroethane	U	353	ug/kg	70.6	353
98-95-3	Nitrobenzene	U	353	ug/kg	70.6	353
78-59-1	Isophorone	U	353	ug/kg	70.6	353
88-75-5	2-Nitrophenol	U	353	ug/kg	70.6	353
105-67-9	2,4-Dimethylphenol	U	353	ug/kg	124	353
111-91-1	bis(2-Chloroethoxy)methane	U	353	ug/kg	70.6	353
120-83-2	2,4-Dichlorophenol	U	353	ug/kg	70.6	353
65-85-0	Benzoic acid	U	706	ug/kg	177	706
91-20-3	Naphthalene	U	35.3	ug/kg	10.6	35.3
106-47-8	4-Chloroaniline	U	353	ug/kg	70.6	353
87-68-3	Hexachlorobutadiene	U	353	ug/kg	70.6	353
91-57-6	2-Methylnaphthalene	U	35.3	ug/kg	7.06	35.3
77-47-4	Hexachlorocyclopentadiene	U	353	ug/kg	70.6	353
88-06-2	2,4,6-Trichlorophenol	U	353	ug/kg	70.6	353
95-95-4	2,4,5-Trichlorophenol	U	353	ug/kg	70.6	353
91-58-7	2-Chloronaphthalene	U	35.3	ug/kg	11.6	35.3
88-74-4	2-Nitroaniline	U	353	ug/kg	70.6	353
99-09-2	<i>o</i> -Nitroaniline	U	353	ug/kg	70.6	353
	3-Nitroaniline					

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434009	Date Received: 02/06/2010 09:15	% Moisture: 6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8357	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.1	Dilution: 1
Run Date: 02/21/2010 14:40	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s4b2114.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	353	ug/kg	70.6	353
606-20-2	2,6-Dinitrotoluene	U	353	ug/kg	35.3	353
208-96-8	Acenaphthylene	U	35.3	ug/kg	10.6	35.3
51-28-5	2,4-Dinitrophenol	U	706	ug/kg	134	706
132-64-9	Dibenzofuran	U	353	ug/kg	70.6	353
84-66-2	Diethylphthalate	U	353	ug/kg	70.6	353
86-73-7	Fluorene	U	35.3	ug/kg	10.6	35.3
7005-72-3	4-Chlorophenylphenylether	U	353	ug/kg	70.6	353
534-52-1	2-Methyl-4,6-dinitrophenol	U	353	ug/kg	70.6	353
100-01-6	4-Nitroaniline	U	353	ug/kg	106	353
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	353	ug/kg	70.6	353
122-66-7	Azobenzene	U	353	ug/kg	70.6	353
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	353	ug/kg	70.6	353
118-74-1	Hexachlorobenzene	U	353	ug/kg	70.6	353
85-01-8	Phenanthrene	U	35.3	ug/kg	10.6	35.3
120-12-7	Anthracene	U	35.3	ug/kg	7.06	35.3
84-74-2	Di-n-butylphthalate	U	353	ug/kg	70.6	353
206-44-0	Fluoranthene	U	35.3	ug/kg	10.6	35.3
85-68-7	Butylbenzylphthalate	U	353	ug/kg	70.6	353
56-55-3	Benzo(a)anthracene	U	35.3	ug/kg	10.6	35.3
91-94-1	3,3'-Dichlorobenzidine	U	353	ug/kg	106	353
218-01-9	Chrysene	U	35.3	ug/kg	10.6	35.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	353	ug/kg	70.6	353
117-84-0	Di-n-octylphthalate	U	353	ug/kg	70.6	353
205-99-2	Benzo(b)fluoranthene	U	35.3	ug/kg	10.6	35.3
207-08-9	Benzo(k)fluoranthene	U	35.3	ug/kg	10.6	35.3
50-32-8	Benzo(a)pyrene	U	35.3	ug/kg	10.6	35.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.3	ug/kg	10.6	35.3
53-70-3	Dibenzo(a,h)anthracene	U	35.3	ug/kg	10.6	35.3
191-24-2	Benzo(ghi)perylene	U	35.3	ug/kg	10.6	35.3
120-82-1	1,2,4-Trichlorobenzene	U	353	ug/kg	70.6	353

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.94	483	ug/kg		J
	Unknown	5.16	229	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434009	Date Received: 02/06/2010 09:15	%Moisture: 6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8357	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 14:40	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s4b2114.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.75	153	ug/kg	99	NJ
	Unknown	8.26	243	ug/kg		J
	Unknown	10.7	189	ug/kg		J
83-47-6	.gamma.-Sitosterol	12.7	191	ug/kg	91	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434015	Date Received: 02/06/2010 09:15	%Moisture: 6.3
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8374	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.1	Dilution: 1
Run Date: 02/21/2010 16:56	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.13 g	Final Volume: 1 mL
Data File: s4b2120.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	354	ug/kg	70.9	354
108-95-2	Phenol	U	354	ug/kg	70.9	354
95-57-8	2-Chlorophenol	U	354	ug/kg	70.9	354
106-46-7	1,4-Dichlorobenzene	U	354	ug/kg	70.9	354
621-64-7	N-Nitrosodipropylamine	U	354	ug/kg	70.9	354
59-50-7	4-Chloro-3-methylphenol	U	354	ug/kg	70.9	354
83-32-9	Acenaphthene	U	35.4	ug/kg	11.7	35.4
121-14-2	2,4-Dinitrotoluene	U	354	ug/kg	35.4	354
100-02-7	4-Nitrophenol	U	354	ug/kg	117	354
87-86-5	Pentachlorophenol	U	354	ug/kg	88.6	354
129-00-0	Pyrene	U	35.4	ug/kg	10.6	35.4
110-86-1	Pyridine	U	354	ug/kg	70.9	354
62-53-3	Aniline	U	354	ug/kg	106	354
111-44-4	bis(2-Chloroethyl) ether	U	354	ug/kg	70.9	354
541-73-1	1,3-Dichlorobenzene	U	354	ug/kg	70.9	354
100-51-6	Benzyl alcohol	U	354	ug/kg	106	354
95-50-1	1,2-Dichlorobenzene	U	354	ug/kg	70.9	354
108-60-1	bis(2-Chloroisopropyl)ether	U	354	ug/kg	70.9	354
95-48-7	o-Cresol	U	354	ug/kg	70.9	354
65794-96-9	m,p-Cresols	U	354	ug/kg	106	354
67-72-1	Hexachloroethane	U	354	ug/kg	70.9	354
98-95-3	Nitrobenzene	U	354	ug/kg	70.9	354
78-59-1	Isophorone	U	354	ug/kg	70.9	354
88-75-5	2-Nitrophenol	U	354	ug/kg	70.9	354
105-67-9	2,4-Dimethylphenol	U	354	ug/kg	124	354
111-91-1	bis(2-Chloroethoxy)methane	U	354	ug/kg	70.9	354
120-83-2	2,4-Dichlorophenol	U	354	ug/kg	70.9	354
65-85-0	Benzoic acid	U	709	ug/kg	177	709
91-20-3	Naphthalene	U	35.4	ug/kg	10.6	35.4
106-47-8	4-Chloroaniline	U	354	ug/kg	70.9	354
87-68-3	Hexachlorobutadiene	U	354	ug/kg	70.9	354
91-57-6	2-Methylnaphthalene	U	35.4	ug/kg	7.09	35.4
77-47-4	Hexachlorocyclopentadiene	U	354	ug/kg	70.9	354
88-06-2	2,4,6-Trichlorophenol	U	354	ug/kg	70.9	354
95-95-4	2,4,5-Trichlorophenol	U	354	ug/kg	70.9	354
91-58-7	2-Chloronaphthalene	U	35.4	ug/kg	11.7	35.4
88-74-4	2-Nitroaniline	U	354	ug/kg	70.9	354
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	354	ug/kg	70.9	354

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434015

Client ID: RE15-10-8374
Batch ID: 951989
Run Date: 02/21/2010 16:56
Prep Date: 02/11/2010 22:25
Data File: s4b2120.d

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.13 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 6.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	354	ug/kg	70.9	354
606-20-2	2,6-Dinitrotoluene	U	354	ug/kg	35.4	354
208-96-8	Acenaphthylene	U	35.4	ug/kg	10.6	35.4
51-28-5	2,4-Dinitrophenol	U	709	ug/kg	135	709
132-64-9	Dibenzofuran	U	354	ug/kg	70.9	354
84-66-2	Diethylphthalate	U	354	ug/kg	70.9	354
86-73-7	Fluorene	U	35.4	ug/kg	10.6	35.4
7005-72-3	4-Chlorophenylphenylether	U	354	ug/kg	70.9	354
534-52-1	2-Methyl-4,6-dinitrophenol	U	354	ug/kg	70.9	354
100-01-6	4-Nitroaniline	U	354	ug/kg	106	354
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	354	ug/kg	70.9	354
122-66-7	Azobenzene	U	354	ug/kg	70.9	354
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	354	ug/kg	70.9	354
118-74-1	Hexachlorobenzene	U	354	ug/kg	70.9	354
85-01-8	Phenanthrene	U	35.4	ug/kg	10.6	35.4
120-12-7	Anthracene	U	35.4	ug/kg	7.09	35.4
84-74-2	Di-n-butylphthalate	U	354	ug/kg	70.9	354
206-44-0	Fluoranthene	U	35.4	ug/kg	10.6	35.4
85-68-7	Butylbenzylphthalate	U	354	ug/kg	70.9	354
56-55-3	Benzo(a)anthracene	U	35.4	ug/kg	10.6	35.4
91-94-1	3,3'-Dichlorobenzidine	U	354	ug/kg	106	354
218-01-9	Chrysene	U	35.4	ug/kg	10.6	35.4
117-81-7	bis(2-Ethylhexyl)phthalate	U	354	ug/kg	70.9	354
117-84-0	Di-n-octylphthalate	U	354	ug/kg	70.9	354
205-99-2	Benzo(b)fluoranthene	U	35.4	ug/kg	10.6	35.4
207-08-9	Benzo(k)fluoranthene	U	35.4	ug/kg	10.6	35.4
50-32-8	Benzo(a)pyrene	U	35.4	ug/kg	10.6	35.4
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.4	ug/kg	10.6	35.4
53-70-3	Dibenzo(a,h)anthracene	U	35.4	ug/kg	10.6	35.4
191-24-2	Benzo(ghi)perylene	U	35.4	ug/kg	10.6	35.4
120-82-1	1,2,4-Trichlorobenzene	U	354	ug/kg	70.9	354

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.05	726	ug/kg		J
	Unknown Aldol Condensate	2.94	398	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434014

Client ID: RE15-10-8375
Batch ID: 951989
Run Date: 02/21/2010 16:33
Prep Date: 02/11/2010 22:25
Data File: s4b2119.d

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.07 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 19.7
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	414	ug/kg	82.9	414
108-95-2	Phenol	U	414	ug/kg	82.9	414
95-57-8	2-Chlorophenol	U	414	ug/kg	82.9	414
106-46-7	1,4-Dichlorobenzene	U	414	ug/kg	82.9	414
621-64-7	N-Nitrosodipropylamine	U	414	ug/kg	82.9	414
59-50-7	4-Chloro-3-methylphenol	U	414	ug/kg	82.9	414
83-32-9	Acenaphthene	U	41.4	ug/kg	13.7	41.4
121-14-2	2,4-Dinitrotoluene	U	414	ug/kg	41.4	414
100-02-7	4-Nitrophenol	U	414	ug/kg	137	414
87-86-5	Pentachlorophenol	U	414	ug/kg	104	414
129-00-0	Pyrene	U	41.4	ug/kg	12.4	41.4
110-86-1	Pyridine	U	414	ug/kg	82.9	414
62-53-3	Aniline	U	414	ug/kg	124	414
111-44-4	bis(2-Chloroethyl) ether	U	414	ug/kg	82.9	414
541-73-1	1,3-Dichlorobenzene	U	414	ug/kg	82.9	414
100-51-6	Benzyl alcohol	U	414	ug/kg	124	414
95-50-1	1,2-Dichlorobenzene	U	414	ug/kg	82.9	414
108-60-1	bis(2-Chloroisopropyl)ether	U	414	ug/kg	82.9	414
95-48-7	o-Cresol	U	414	ug/kg	82.9	414
65794-96-9	m,p-Cresols	U	414	ug/kg	124	414
67-72-1	Hexachloroethane	U	414	ug/kg	82.9	414
98-95-3	Nitrobenzene	U	414	ug/kg	82.9	414
78-59-1	Isophorone	U	414	ug/kg	82.9	414
88-75-5	2-Nitrophenol	U	414	ug/kg	82.9	414
105-67-9	2,4-Dimethylphenol	U	414	ug/kg	145	414
111-91-1	bis(2-Chloroethoxy)methane	U	414	ug/kg	82.9	414
120-83-2	2,4-Dichlorophenol	U	414	ug/kg	82.9	414
65-85-0	Benzoic acid	U	829	ug/kg	207	829
91-20-3	Naphthalene	U	41.4	ug/kg	12.4	41.4
106-47-8	4-Chloroaniline	U	414	ug/kg	82.9	414
87-68-3	Hexachlorobutadiene	U	414	ug/kg	82.9	414
91-57-6	2-Methylnaphthalene	U	41.4	ug/kg	8.29	41.4
77-47-4	Hexachlorocyclopentadiene	U	414	ug/kg	82.9	414
88-06-2	2,4,6-Trichlorophenol	U	414	ug/kg	82.9	414
95-95-4	2,4,5-Trichlorophenol	U	414	ug/kg	82.9	414
91-58-7	2-Chloronaphthalene	U	41.4	ug/kg	13.7	41.4
88-74-4	2-Nitroaniline	U	414	ug/kg	82.9	414
99-09-2	<i>o</i> -Nitroaniline	U	414	ug/kg	82.9	414
	3-Nitroaniline					

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434014	Date Received: 02/06/2010 09:15	%Moisture: 19.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8375	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 16:33	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.07 g	Final Volume: 1 mL
Data File: s4b2119.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	414	ug/kg	82.9	414
606-20-2	2,6-Dinitrotoluene	U	414	ug/kg	41.4	414
208-96-8	Acenaphthylene	U	41.4	ug/kg	12.4	41.4
51-28-5	2,4-Dinitrophenol	U	829	ug/kg	157	829
132-64-9	Dibenzofuran	U	414	ug/kg	82.9	414
84-66-2	Diethylphthalate	U	414	ug/kg	82.9	414
86-73-7	Fluorene	U	41.4	ug/kg	12.4	41.4
7005-72-3	4-Chlorophenylphenylether	U	414	ug/kg	82.9	414
534-52-1	2-Methyl-4,6-dinitrophenol	U	414	ug/kg	82.9	414
100-01-6	4-Nitroaniline	U	414	ug/kg	124	414
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	414	ug/kg	82.9	414
122-66-7	Azobenzene	U	414	ug/kg	82.9	414
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	414	ug/kg	82.9	414
118-74-1	Hexachlorobenzene	U	414	ug/kg	82.9	414
85-01-8	Phenanthrene	U	41.4	ug/kg	12.4	41.4
120-12-7	Anthracene	U	41.4	ug/kg	8.29	41.4
84-74-2	Di-n-butylphthalate	U	414	ug/kg	82.9	414
206-44-0	Fluoranthene	U	41.4	ug/kg	12.4	41.4
85-68-7	Butylbenzylphthalate	U	414	ug/kg	82.9	414
56-55-3	Benzo(a)anthracene	U	41.4	ug/kg	12.4	41.4
91-94-1	3,3'-Dichlorobenzidine	U	414	ug/kg	124	414
218-01-9	Chrysene	U	41.4	ug/kg	12.4	41.4
117-81-7	bis(2-Ethylhexyl)phthalate	U	414	ug/kg	82.9	414
117-84-0	Di-n-octylphthalate	U	414	ug/kg	82.9	414
205-99-2	Benzo(b)fluoranthene	U	41.4	ug/kg	12.4	41.4
207-08-9	Benzo(k)fluoranthene	U	41.4	ug/kg	12.4	41.4
50-32-8	Benzo(a)pyrene	U	41.4	ug/kg	12.4	41.4
193-39-5	Indeno(1,2,3-cd)pyrene	U	41.4	ug/kg	12.4	41.4
53-70-3	Dibenzo(a,h)anthracene	U	41.4	ug/kg	12.4	41.4
191-24-2	Benzo(ghi)perylene	U	41.4	ug/kg	12.4	41.4
120-82-1	1,2,4-Trichlorobenzene	U	414	ug/kg	82.9	414

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.94	488	ug/kg		J

QC Summary

Semi-Volatile
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-1620

Matrix Type: SOLID

CAP Column (1) : J&W DB-5MS

Sample ID	Client ID	2FP %REC	PHL %REC	NBZ %REC	FBP %REC	TBP %REC	TPH %REC
1202040333	MB for batch 951987	74	75	75	78	78	105
1202040334	LCS for batch 951987	71	71	76	74	84	100
246434002	RE15-10-8354	42	43	42	44	48	63
246434003	RE15-10-8356	74	78	75	79	94	120
246434005	RE15-10-8352	68	71	68	67	76	92
246434004	RE15-10-8353	64	66	71	64	84	78
246434006	RE15-10-8355	65	68	72	64	85	80
246434007	RE15-10-8351	63	65	68	59	80	77
246434008	RE15-10-8350	60	62	64	54	70	71
246434009	RE15-10-8357	68	70	76	67	92	88
246434010	RE15-10-8338	46	47	50	44	60	55
246434011	RE15-10-8336	60	62	66	56	77	74
246434012	RE15-10-8339	66	68	74	65	88	82
246434013	RE15-10-8337	62	64	68	61	80	78
246434014	RE15-10-8375	68	70	76	67	91	86
246434015	RE15-10-8374	72	73	81	71	96	90

Surrogate**Acceptance Limits**

2FP	= 2-Fluorophenol	(29%-99%)
PHL	= Phenol-d5	(33%-98%)
NBZ	= Nitrobenzene-d5	(31%-105%)
FBP	= 2-Fluorobiphenyl	(25%-109%)
TBP	= 2,4,6-Tribromophenol	(37%-106%)
TPH	= p-Terphenyl-d14	(13%-150%)

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

Semi-Volatile
Quality Control Summary
Spike Recovery Report

SDG Number: 10-1620

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 951987

Matrix: SOIL

Lab Sample ID: 1202040334

Instrument: MSD4.I

Analysis Date: 02/20/2010 16:13

Dilution: 1

Analyst: JMB3

Prep Batch ID: 951987

Inj. Vol: .5 uL

Batch ID: 951989

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
62-75-9	LCS N-Methyl-N-nitrosomethylam	1670	0.0	1130	68	22-114
108-95-2	LCS Phenol	1670	0.0	1290	77	39-104
95-57-8	LCS 2-Chlorophenol	1670	0.0	1280	77	40-107
106-46-7	LCS 1,4-Dichlorobenzene	1670	0.0	1280	77	33-108
621-64-7	LCS N-Nitrosodipropylamine	1670	0.0	1450	87	34-113
59-50-7	LCS 4-Chloro-3-methylphenol	1670	0.0	1320	79	42-114
83-32-9	LCS Acenaphthene	1670	0.0	1130	68	40-105
121-14-2	LCS 2,4-Dinitrotoluene	1670	0.0	1320	79	49-112
100-02-7	LCS 4-Nitrophenol	1670	0.0	1110	67	24-113
87-86-5	LCS Pentachlorophenol	1670	0.0	1200	72	27-116
129-00-0	LCS Pyrene	1670	0.0	1430	86	42-113
110-86-1	LCS Pyridine	1670	0.0	1130	68	8-125
62-53-3	LCS Aniline	1670	0.0	1220	73	18-126
111-44-4	LCS bis(2-Chloroethyl) ether	1670	0.0	1320	79	32-103
541-73-1	LCS 1,3-Dichlorobenzene	1670	0.0	1270	76	32-108
100-51-6	LCS Benzyl alcohol	1670	0.0	991	59	27-108
95-50-1	LCS 1,2-Dichlorobenzene	1670	0.0	1270	76	35-111
108-60-1	LCS bis(2-Chloroisopropyl)ether	1670	0.0	1390	84	28-117
95-48-7	LCS o-Cresol	1670	0.0	1340	81	39-111
65794-96-9	LCS m,p-Cresols	1670	0.0	1550	93	45-121
67-72-1	LCS Hexachloroethane	1670	0.0	1300	78	30-109
98-95-3	LCS Nitrobenzene	1670	0.0	1340	81	33-116

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 2 of 4

SDG Number: 10-1620

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 951987

Matrix: SOIL

Lab Sample ID: 1202040334

Instrument: MSD4.1

Analysis Date: 02/20/2010 16:13

Dilution: 1

Analyst: JMB3

Preo Batch II 951987

Inj. Vol: .5 uL

Batch ID: 951989

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
78-59-1	LCS Isophorone	1670	0.0	1230	74	35-113
88-75-5	LCS 2-Nitrophenol	1670	0.0	1150	69	31-117
105-67-9	LCS 2,4-Dimethylphenol	1670	0.0	1380	83	32-112
111-91-1	LCS bis(2-Chloroethoxy)methane	1670	0.0	1220	73	34-110
120-83-2	LCS 2,4-Dichlorophenol	1670	0.0	1190	71	34-116
65-85-0	LCS Benzoic acid	3330	0.0	1890	57	22-138
91-20-3	LCS Naphthalene	1670	0.0	1190	71	35-103
106-47-8	LCS 4-Chloroaniline	1670	0.0	1170	70	20-118
87-68-3	LCS Hexachlorobutadiene	1670	0.0	1250	75	31-117
91-57-6	LCS 2-Methylnaphthalene	1670	0.0	1260	76	38-115
77-47-4	LCS Hexachlorocyclopentadiene	1670	0.0	1090	66	22-140
88-06-2	LCS 2,4,6-Trichlorophenol	1670	0.0	1280	77	40-110
95-95-4	LCS 2,4,5-Trichlorophenol	1670	0.0	1410	84	43-113
91-58-7	LCS 2-Chloronaphthalene	1670	0.0	1250	75	37-111
88-74-4	LCS 2-Nitroaniline	1670	0.0	1470	88	41-113
99-09-2	LCS 3-Nitroaniline	1670	0.0	1350	81	34-125
131-11-3	LCS Dimethylphthalate	1670	0.0	1370	82	48-122
606-20-2	LCS 2,6-Dinitrotoluene	1670	0.0	1330	80	47-107
208-96-8	LCS Acenaphthylene	1670	0.0	1330	80	44-110
51-28-5	LCS 2,4-Dinitrophenol	1670	0.0	864	52	18-127
132-64-9	LCS Dibenzofuran	1670	0.0	1300	78	49-115
84-66-2	LCS Diethylphthalate	1670	0.0	1440	87	51-126

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 3 of 4

SDG Number: 10-1620

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 951987

Matrix: SOIL

Lab Sample ID: 1202040334

Instrument: MSD4.I

Analysis Date: 02/20/2010 16:13

Dilution: 1

Analyst: JMB3

Prep Batch ID: 951987

Inj. Vol: .5 uL

Batch ID: 951989

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
86-73-7	LCS Fluorene	1670	0.0	1100	66	43-109
7005-72-3	LCS 4-Chlorophenylphenylether	1670	0.0	1300	78	45-115
534-52-1	LCS 2-Methyl-4,6-dinitrophenol	1670	0.0	1060	64	32-117
100-01-6	LCS 4-Nitroaniline <i>p</i> -Nitroaniline	1670	0.0	1660	100	33-148
122-39-4	LCS Diphenylamine	1670	0.0	1540	92	46-114
122-66-7	LCS Azobenzene <i>1,2</i> -Diphenylhydrazine	1670	0.0	1610	97	38-123
101-55-3	LCS 4-Bromophenylphenylether	1670	0.0	1300	78	40-119
118-74-1	LCS Hexachlorobenzene	1670	0.0	1340	80	43-111
85-01-8	LCS Phenanthrene	1670	0.0	1300	78	46-107
120-12-7	LCS Anthracene	1670	0.0	1270	76	46-110
84-74-2	LCS Di-n-butylphthalate	1670	0.0	1470	88	52-132
206-44-0	LCS Fluoranthene	1670	0.0	1310	79	51-115
85-68-7	LCS Butylbenzylphthalate	1670	0.0	1750	105	47-137
56-55-3	LCS Benzo(a)anthracene	1670	0.0	1310	79	50-108
91-94-1	LCS 3,3'-Dichlorobenzidine	1670	0.0	1140	68	36-103
218-01-9	LCS Chrysene	1670	0.0	1290	77	48-111
117-81-7	LCS bis(2-Ethylhexyl)phthalate	1670	0.0	1660	100	48-139
117-84-0	LCS Di-n-octylphthalate	1670	0.0	1650	99	42-141
205-99-2	LCS Benzo(b)fluoranthene	1670	0.0	1320	79	49-114
207-08-9	LCS Benzo(k)fluoranthene	1670	0.0	1430	86	50-116
50-32-8	LCS Benzo(a)pyrene	1670	0.0	1400	84	54-114
193-39-5	LCS Indeno(1,2,3-cd)pyrene	1670	0.0	1540	92	53-120

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 4 of 4

SDG Number: 10-1620

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 951987

Matrix: SOIL

Lab Sample ID: 1202040334

Instrument: MSD4.I

Analysis Date: 02/20/2010 16:13

Dilution: 1

Analyst: JMB3

Pren Batch II 951987

Inj. Vol: .5 uL

Batch ID: 951989

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
53-70-3	LCS Dibenzo(a,h)anthracene	1670	0.0	1550	93	53-121
191-24-2	LCS Benzo(ghi)perylene	1670	0.0	1520	91	50-121
120-82-1	LCS 1,2,4-Trichlorobenzene	1670	0.0	1230	74	32-114

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 8

SDG Number: 10-1620

Sample Type: Matrix Spike

Client ID: RE15-10-8361MS

Matrix: R

Lab Sample ID: J202040335

%Moisture: 18

Instrument: MSD4.J

Analysis Date: 02/20/2010 17:43

Dilution: 1

Analyst: JMB3

Pre Batch ID: 951987

Inj. Vol: .5 uL

Batch ID: 951989

CAS No	Parname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
62-75-9	MS N-Methyl-N-nitrosomethylam	2020	0.00 U	1330	66	27-98
108-95-2	MS Phenol	2020	0.00 U	1560	77	33-94
95-57-8	MS 2-Chlorophenol	2020	0.00 U	1580	78	29-96
106-46-7	MS 1,4-Dichlorobenzene	2020	0.00 U	1530	76	27-96
621-64-7	MS N-Nitrosodipropylamine	2020	0.00 U	1760	87	29-102
59-50-7	MS 4-Chloro-3-methylphenol	2020	0.00 U	1560	77	29-110
83-32-9	MS Acenaphthene	2020	0.00 U	1370	68	17-109
121-14-2	MS 2,4-Dinitrotoluene	2020	0.00 U	1500	74	33-107
100-02-7	MS 4-Nitrophenol	2020	0.00 U	1480	73	15-110
87-86-5	MS Pentachlorophenol	2020	0.00 U	1810	90	23-110
129-00-0	MS Pyrene	2020	0.00 U	1710	84	24-118
110-86-1	MS Pyridine	2020	0.00 U	1330	66	25-102
62-53-3	MS Aniline	2020	0.00 U	1420	70	18-109
111-44-4	MS bis(2-Chloroethyl) ether	2020	0.00 U	1570	78	29-96
541-73-1	MS 1,3-Dichlorobenzene	2020	0.00 U	1480	73	26-97
100-51-6	MS Benzyl alcohol	2020	0.00 U	1020	50	19-112
95-50-1	MS 1,2-Dichlorobenzene	2020	0.00 U	1520	75	30-97
108-60-1	MS bis(2-Chloroisopropyl)ether	2020	0.00 U	1690	83	28-103
95-48-7	MS o-Cresol	2020	0.00 U	1720	85	32-107
65794-96-9	MS m,p-Cresols	2020	0.00 U	1920	95	33-115
67-72-1	MS Hexachloroethane	2020	0.00 U	1550	77	25-100
98-95-3	MS Nitrobenzene	2020	0.00 U	1600	79	27-106

Semi-Volatile
Quality Control Summary
Spike Recovery Report

SDG Number: 10-1620

Sample Type: Matrix Spike

Client ID: RE15-10-8361MS

Matrix: R

Lab Sample ID: 1202040335

%Moisture: 18

Instrument: MSD4.I

Analysis Date: 02/20/2010 17:43

Dilution: 1

Analyst: JMB3

Pren Batch II 951987

Inj. Vol: .5 uL

Batch ID: 951989

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
78-59-1	MS Isophorone	2020	0.00 U	1460	72	29-104
88-75-5	MS 2-Nitrophenol	2020	0.00 U	1340	66	26-102
105-67-9	MS 2,4-Dimethylphenol	2020	0.00 U	1730	85	22-104
111-91-1	MS bis(2-Chloroethoxy)methane	2020	0.00 U	1430	71	27-101
120-83-2	MS 2,4-Dichlorophenol	2020	0.00 U	1410	70	26-103
65-85-0	MS Benzoic acid	4040	0.00 U	3180	79	13-131
91-20-3	MS Naphthalene	2020	0.00 U	1410	70	23-103
106-47-8	MS 4-Chloroaniline	2020	0.00 U	1340	66	26-103
87-68-3	MS Hexachlorobutadiene	2020	0.00 U	1460	72	28-101
91-57-6	MS 2-Methylnaphthalene	2020	0.00 U	1500	74	27-106
77-47-4	MS Hexachlorocyclopentadiene	2020	0.00 U	1220	61	24-117
88-06-2	MS 2,4,6-Trichlorophenol	2020	0.00 U	1500	74	26-105
95-95-4	MS 2,4,5-Trichlorophenol	2020	0.00 U	1810	89	30-110
91-58-7	MS 2-Chloronaphthalene	2020	0.00 U	1510	75	28-102
88-74-4	MS 2-Nitroaniline	2020	0.00 U	1740	86	33-106
99-09-2	MS 3-Nitroaniline	2020	0.00 U	1510	75	33-116
131-11-3	MS Dimethylphthalate	2020	0.00 U	1650	82	38-113
606-20-2	MS 2,6-Dinitrotoluene	2020	0.00 U	1540	76	29-107
208-96-8	MS Acenaphthylene	2020	0.00 U	1590	79	25-108
51-28-5	MS 2,4-Dinitrophenol	2020	0.00 U	1340	66	14-102
132-64-9	MS Dibenzofuran	2020	0.00 U	1560	77	35-112
84-66-2	MS Diethylphthalate	2020	0.00 U	1650	82	36-122

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 3 of 8

SDG Number: 10-1620

Sample Type: Matrix Spike

Client ID: RE15-10-8361MS

Matrix: R

Lab Sample ID: 1202040335

%Moisture: 18

Instrument: MSD4.I

Analysis Date: 02/20/2010 17:43

Dilution: 1

Analyst: JMB3

Pren Batch II 951987

Inj. Vol: .5 uL

Batch ID: 951989

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
86-73-7	MS Fluorene	2020	0.00 U	1320	65	33-105
7005-72-3	MS 4-Chlorophenylphenylether	2020	0.00 U	1500	74	30-110
534-52-1	MS 2-Methyl-4,6-dinitrophenol	2020	0.00 U	1390	69	26-97
100-01-6	MS 4-Nitroaniline <i>p</i> -Nitroaniline	2020	0.00 U	1800	89	28-135
122-39-4	MS Diphenylamine	2020	0.00 U	1800	89	33-109
122-66-7	MS Azobenzene <i>1,2-Diphenylhydrazine</i>	2020	0.00 U	1910	95	31-113
101-55-3	MS 4-Bromophenylphenylether	2020	0.00 U	1550	77	31-109
118-74-1	MS Hexachlorobenzene	2020	0.00 U	1540	76	37-99
85-01-8	MS Phenanthrene	2020	0.00 U	1520	75	29-109
120-12-7	MS Anthracene	2020	0.00 U	1470	73	19-118
84-74-2	MS Di-n-butylphthalate	2020	0.00 U	1690	84	39-123
206-44-0	MS Fluoranthene	2020	0.00 U	1490	74	33-114
85-68-7	MS Butylbenzylphthalate	2020	0.00 U	2230	110	35-131
56-55-3	MS Benzo(a)anthracene	2020	0.00 U	1530	76	30-111
91-94-1	MS 3,3'-Dichlorobenzidine	2020	0.00 U	1090	54	30-124
218-01-9	MS Chrysene	2020	0.00 U	1510	75	32-108
117-81-7	MS bis(2-Ethylhexyl)phthalate	2020	0.00 U	2150	106	37-129
117-84-0	MS Di-n-octylphthalate	2020	0.00 U	2830	140	31-143
205-99-2	MS Benzo(b)fluoranthene	2020	0.00 U	1760	87	29-118
207-08-9	MS Benzo(k)fluoranthene	2020	0.00 U	1750	87	32-118
50-32-8	MS Benzo(a)pyrene	2020	0.00 U	1690	84	33-115
193-39-5	MS Indeno(1,2,3-cd)pyrene	2020	0.00 U	1440	71	29-114

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 4 of 8

SDG Number: 10-1620

Client ID: RE15-10-8361MS

Lab Sample ID:1202040335

Instrument: MSD4.I

Analyst: JMB3

Inj. Vol: .5 uL

Sample Type: Matrix Spike

Matrix: R

%Moisture: 18

Analysis Date: 02/20/2010 17:43

Dilution: 1

Prep Batch ID: 951987

Batch ID: 951989

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
53-70-3	MS Dibenzo(a,h)anthracene	2020	0.00 U	1470	73	27-119
191-24-2	MS Benzo(ghi)perylene	2020	0.00 U	1350	67	28-112
120-82-1	MS 1,2,4-Trichlorobenzene	2020	0.00 U	1430	71	28-99

Semi-Volatile

Page 5 of 8

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1620

Sample Type: Matrix Spike Duplicate

Client ID: RE15-10-8361MSD

Matrix: R

Lab Sample ID: 1202040336

%Moisture: 18

Instrument: MSD4.I

Analysis Date: 02/20/2010 18:06

Dilution: 1

Analyst: JMB3

Pren Batch II 951987

Inj. Vol: .5 uL

Batch ID: 951989

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg		Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
62-75-9	MSD N-Methyl-N-nitrosomethylam	2030	0.00	U	1320	65	27-98	0	0-30
108-95-2	MSD Phenol	2030	0.00	U	1580	78	33-94	1	0-30
95-57-8	MSD 2-Chlorophenol	2030	0.00	U	1560	77	29-96	2	0-30
106-46-7	MSD 1,4-Dichlorobenzene	2030	0.00	U	1480	73	27-96	3	0-30
621-64-7	MSD N-Nitrosodipropylamine	2030	0.00	U	1760	87	29-102	0	0-30
59-50-7	MSD 4-Chloro-3-methylphenol	2030	0.00	U	1640	81	29-110	5	0-30
83-32-9	MSD Acenaphthene	2030	0.00	U	1380	68	17-109	1	0-30
121-14-2	MSD 2,4-Dinitrotoluene	2030	0.00	U	1560	77	33-107	4	0-30
100-02-7	MSD 4-Nitrophenol	2030	0.00	U	1650	81	15-110	11	0-30
87-86-5	MSD Pentachlorophenol	2030	0.00	U	1890	93	23-110	5	0-30
129-00-0	MSD Pyrene	2030	0.00	U	1670	82	24-118	2	0-30
110-86-1	MSD Pyridine	2030	0.00	U	1280	63	25-102	4	0-30
62-53-3	MSD Aniline	2030	0.00	U	1420	70	18-109	0	0-30
111-44-4	MSD bis(2-Chloroethyl) ether	2030	0.00	U	1570	77	29-96	0	0-30
541-73-1	MSD 1,3-Dichlorobenzene	2030	0.00	U	1450	71	26-97	2	0-30
100-51-6	MSD Benzyl alcohol	2030	0.00	U	1110	55	19-112	9	0-30
95-50-1	MSD 1,2-Dichlorobenzene	2030	0.00	U	1500	74	30-97	1	0-30
108-60-1	MSD bis(2-Chloroisopropyl)ether	2030	0.00	U	1690	83	28-103	0	0-30
95-48-7	MSD o-Cresol	2030	0.00	U	1820	90	32-107	6	0-30
65794-96-9	MSD m,p-Cresols	2030	0.00	U	1960	96	33-115	2	0-30
67-72-1	MSD Hexachloroethane	2030	0.00	U	1540	76	25-100	1	0-30
98-95-3	MSD Nitrobenzene	2030	0.00	U	1600	79	27-106	0	0-30

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 6 of 8

SDG Number: 10-1620

Sample Type: Matrix Spike Duplicate

Client ID: RE15-10-8361MSD

Matrix: R

Lab Sample ID: 1202040336

%Moisture: 18

Instrument: MSD4.I

Analysis Date: 02/20/2010 18:06

Dilution: 1

Analyst: JMB3

Pre Batch ID: 951987

Inj. Vol: .5 uL

Batch ID: 951989

CAS No	Parname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
78-59-1	MSD Isophorone	2030	0.00 U	1490	73	29-104	2	0-30
88-75-5	MSD 2-Nitrophenol	2030	0.00 U	1390	68	26-102	4	0-30
105-67-9	MSD 2,4-Dimethylphenol	2030	0.00 U	1780	88	22-104	3	0-30
111-91-1	MSD bis(2-Chloroethoxy)methane	2030	0.00 U	1470	72	27-101	2	0-30
120-83-2	MSD 2,4-Dichlorophenol	2030	0.00 U	1470	72	26-103	4	0-30
65-85-0	MSD Benzoic acid	4060	0.00 U	3350	82	13-131	5	0-30
91-20-3	MSD Naphthalene	2030	0.00 U	1420	70	23-103	0	0-30
106-47-8	MSD 4-Chloroaniline	2030	0.00 U	1380	68	26-103	3	0-30
87-68-3	MSD Hexachlorobutadiene	2030	0.00 U	1450	71	28-101	1	0-30
91-57-6	MSD 2-Methylnaphthalene	2030	0.00 U	1540	76	27-106	3	0-30
77-47-4	MSD Hexachlorocyclopentadiene	2030	0.00 U	1200	59	24-117	2	0-30
88-06-2	MSD 2,4,6-Trichlorophenol	2030	0.00 U	1590	78	26-105	6	0-30
95-95-4	MSD 2,4,5-Trichlorophenol	2030	0.00 U	1800	89	30-110	0	0-30
91-58-7	MSD 2-Chloronaphthalene	2030	0.00 U	1520	75	28-102	0	0-30
88-74-4	MSD 2-Nitroaniline <i>o</i> -Nitroaniline	2030	0.00 U	1760	87	33-106	1	0-30
99-09-2	MSD 3-Nitroaniline <i>m</i> -Nitroaniline	2030	0.00 U	1590	78	33-116	5	0-30
131-11-3	MSD Dimethylphthalate	2030	0.00 U	1660	82	38-113	0	0-30
606-20-2	MSD 2,6-Dinitrotoluene	2030	0.00 U	1610	79	29-107	4	0-30
208-96-8	MSD Acenaphthylene	2030	0.00 U	1600	79	25-108	0	0-30
51-28-5	MSD 2,4-Dinitrophenol	2030	0.00 U	1440	71	14-102	7	0-30
132-64-9	MSD Dibenzofuran	2030	0.00 U	1570	77	35-112	0	0-30
84-66-2	MSD Diethylphthalate	2030	0.00 U	1720	85	36-122	4	0-30

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 7 of 8

SDG Number: 10-1620

Sample Type: Matrix Spike Duplicate

Client ID: RE15-10-8361MSD

Matrix: R

Lab Sample ID: 1202040336

%Moisture: 18

Instrument: MSD4.I

Analysis Date: 02/20/2010 18:06

Dilution: 1

Analyst: JMB3

Pre Batch II 951987

Inj. Vol: .5 uL

Batch ID: 951989

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
86-73-7	MSD Fluorene	2030	0.00 U	1340	66	33-105	2	0-30
7005-72-3	MSD 4-Chlorophenylphenylether	2030	0.00 U	1530	76	30-110	2	0-30
534-52-1	MSD 2-Methyl-4,6-dinitrophenol	2030	0.00 U	1440	71	26-97	3	0-30
100-01-6	MSD 4-Nitroaniline <i>p</i> -Nitroaniline	2030	0.00 U	1940	95	28-135	7	0-30
122-39-4	MSD Diphenylamine	2030	0.00 U	1860	92	33-109	3	0-30
122-66-7	MSD Azobenzene <i>1,2</i> -Diphenylhydrazine	2030	0.00 U	1970	97	31-113	3	0-30
101-55-3	MSD 4-Bromophenylphenylether	2030	0.00 U	1580	78	31-109	2	0-30
118-74-1	MSD Hexachlorobenzene	2030	0.00 U	1590	78	37-99	4	0-30
85-01-8	MSD Phenanthrene	2030	0.00 U	1560	77	29-109	2	0-30
120-12-7	MSD Anthracene	2030	0.00 U	1510	74	19-118	2	0-30
84-74-2	MSD Di-n-butylphthalate	2030	0.00 U	1760	87	39-123	4	0-30
206-44-0	MSD Fluoranthene	2030	0.00 U	1520	75	33-114	2	0-30
85-68-7	MSD Butylbenzylphthalate	2030	0.00 U	2170	107	35-131	3	0-30
56-55-3	MSD Benzo(a)anthracene	2030	0.00 U	1530	75	30-111	0	0-30
91-94-1	MSD 3,3'-Dichlorobenzidine	2030	0.00 U	1370	67	30-124	23	0-30
218-01-9	MSD Chrysene	2030	0.00 U	1530	76	32-108	1	0-30
117-81-7	MSD bis(2-Ethylhexyl)phthalate	2030	0.00 U	2100	104	37-129	2	0-30
117-84-0	MSD Di-n-octylphthalate	2030	0.00 U	2630	130	31-143	7	0-30
205-99-2	MSD Benzo(b)fluoranthene	2030	0.00 U	1660	82	29-118	5	0-30
207-08-9	MSD Benzo(k)fluoranthene	2030	0.00 U	1850	91	32-118	6	0-30
50-32-8	MSD Benzo(a)pyrene	2030	0.00 U	1680	83	33-115	0	0-30
193-39-5	MSD Indeno(1,2,3-cd)pyrene	2030	0.00 U	1470	73	29-114	2	0-30

Semi-Volatile

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1620

Sample Type: Matrix Spike Duplicate

Client ID: RE15-10-8361MSD

Matrix: R

Lab Sample ID: 1202040336

%Moisture: 18

Instrument: MSD4.I

Analysis Date: 02/20/2010 18:06

Dilution: 1

Analyst: JMB3

Prep Batch ID: 951987

Inj. Vol: .5 uL

Batch ID: 951989

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
53-70-3	MSD Dibenzo(a,h)anthracene	2030	0.00 U	1530	75	27-119	4	0-30
191-24-2	MSD Benzo(ghi)perylene	2030	0.00 U	1390	68	28-112	3	0-30
120-82-1	MSD 1,2,4-Trichlorobenzene	2030	0.00 U	1440	71	28-99	1	0-30

Method Blank Summary

Page 1 of 1

SDG Number:	10-1620	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 951987	Instrument ID:	MSD4.I	Data File:	s4b2015-1.d
Lab Sample ID:	1202040333	Prep Date:	02/11/2010 22:25	Analyzed:	02/20/10 15:50
Column:	J&W DB-5MS	Level:	LOW		

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01 LCS for batch 951987	1202040334	s4b2016-1.d	02/20/10	1613
04 RE15-10-8354	246434002	s4b2026.d	02/20/10	1958
05 RE15-10-8356	246434003	s4b2027.d	02/20/10	2020
06 RE15-10-8352	246434005	s4b2029.d	02/20/10	2105
07 RE15-10-8353	246434004	s4b2110.d	02/21/10	1310
08 RE15-10-8355	246434006	s4b2111.d	02/21/10	1332
09 RE15-10-8351	246434007	s4b2112.d	02/21/10	1354
10 RE15-10-8350	246434008	s4b2113.d	02/21/10	1417
11 RE15-10-8357	246434009	s4b2114.d	02/21/10	1440
12 RE15-10-8338	246434010	s4b2115.d	02/21/10	1502
13 RE15-10-8336	246434011	s4b2116.d	02/21/10	1525
14 RE15-10-8339	246434012	s4b2117.d	02/21/10	1548
15 RE15-10-8337	246434013	s4b2118.d	02/21/10	1611
16 RE15-10-8375	246434014	s4b2119.d	02/21/10	1633
17 RE15-10-8374	246434015	s4b2120.d	02/21/10	1656

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1620

Instrument ID: MSD4.I

Injection Date/Time: 16-FEB-10 09:30

Column Description: Phenomenex ZB-5MS

Lab File ID /chem/MSD4.i/s021610.b/s4b1603.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	42.5
68	Less than 2% of mass 69	1.4
69	Mass 69 Relative Abundance	47.4
70	Less than 2% of mass 69	0
127	40 - 60% of mass 198	59.9
197	0 - 1% of mass 198	0
199	5 - 9% of mass 198	6.9
275	10 - 30% of mass 198	22.2
365	Greater than 1% of mass 198	2.8
441	Present, but less than mass 443	84.2
442	Greater than 40% of mass 198	74.8
443	17 - 23% of mass 442	19.3

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, LCS, LCSD,BLANKS AND STANDARDS

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
AP010	WBN100120-01	s4b1605.d	16-FEB-10 10:08
AP020	WBN100120-02	s4b1606.d	16-FEB-10 10:30
AP040	WBN100120-03.1	s4b1607.d	16-FEB-10 10:52
AP050	WBN100120-04	s4b1608.d	16-FEB-10 11:14
AP080	WBN100120-05	s4b1609.d	16-FEB-10 11:36
AP100	WBN100120-06	s4b1610.d	16-FEB-10 11:59
AP120	WBN100120-07	s4b1611.d	16-FEB-10 12:21
APICV	WBN100120-08.1	s4b1627.d	16-FEB-10 18:17

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1620

Instrument ID: MSD4.I

Injection Date/Time: 17-FEB-10 17:07

Column Description: Phenomenex ZB-5MS

Lab File ID /chem/MSD4.i/s021710.b/s4b1702.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	40.4
68	Less than 2% of mass 69	1.3
69	Mass 69 Relative Abundance	45.4
70	Less than 2% of mass 69	0.6
127	40 - 60% of mass 198	59
197	0 - 1% of mass 198	0.3
199	5 - 9% of mass 198	6.8
275	10 - 30% of mass 198	21.2
365	Greater than 1% of mass 198	2.6
441	Present, but less than mass 443	77.6
442	Greater than 40% of mass 198	70.7
443	17 - 23% of mass 442	19.8

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, LCS, LCSD,BLANKS AND STANDARDS

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
MEGA001	WBN100215-08	s4b1704.d	17-FEB-10 17:46
MEGA010	WBN100215-07	s4b1705.d	17-FEB-10 18:13
MEGA020	WBN100215-06	s4b1706.d	17-FEB-10 18:40
MEGA040	WBN100215-05.1	s4b1707.d	17-FEB-10 19:07
MEGA050	WBN100215-04	s4b1708.d	17-FEB-10 19:34
MEGA080	WBN100215-03	s4b1709.d	17-FEB-10 20:00
MEGA100	WBN100215-02	s4b1710.d	17-FEB-10 20:27
MEGA120	WBN100215-01	s4b1711.d	17-FEB-10 20:54
MEGAICV	WBN100215-09.1	s4b1713.d	17-FEB-10 21:48

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1620

Instrument ID: MSD4.1

Injection Date/Time: 20-FEB-10 14:19

Column Description: Phenomenex ZB-5MS

Lab File ID /chem/MSD4.i/s022010.b/s4b2011.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	43.5
68	Less than 2% of mass 69	1.5
69	Mass 69 Relative Abundance	49.6
70	Less than 2% of mass 69	0.4
127	40 - 60% of mass 198	59.9
197	0 - 1% of mass 198	0
199	5 - 9% of mass 198	6.7
275	10 - 30% of mass 198	22.1
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	82.9
442	Greater than 40% of mass 198	70
443	17 - 23% of mass 442	18.6

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, LCS, LCSD,BLANKS AND STANDARDS

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
MEGACVS	WBN100215-09.4	s4b2013.d	20-FEB-10 15:00
APCVS	WBN100218-05.3	s4b2014.d	20-FEB-10 15:27
SBLK01	1202040333	s4b2015-1.d	20-FEB-10 15:50
SBLK01LCS	1202040334	s4b2016-1.d	20-FEB-10 16:13
RE15-10-8354	246434002	s4b2026.d	20-FEB-10 19:58
RE15-10-8356	246434003	s4b2027.d	20-FEB-10 20:20
RE15-10-8352	246434005	s4b2029.d	20-FEB-10 21:05

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1620

Instrument ID: MSD4.I

Injection Date/Time: 21-FEB-10 11:21

Column Description: Phenomenex ZB-5MS

Lab File ID /chem/MSD4.i/s022110a.b/s4b2105.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	54.9
68	Less than 2% of mass 69	1.3
69	Mass 69 Relative Abundance	60.9
70	Less than 2% of mass 69	0.5
127	40 - 60% of mass 198	58.3
197	0 - 1% of mass 198	0
199	5 - 9% of mass 198	6.6
275	10 - 30% of mass 198	23.8
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	84
442	Greater than 40% of mass 198	75.5
443	17 - 23% of mass 442	19.3

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, LCS, LCSD, BLANKS AND STANDARDS

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
MEGACVS	WBN100215-09.4	s4b2106.d	21-FEB-10 11:34
APCVS	WBN100218-05.3	s4b2107.d	21-FEB-10 12:02
RE15-10-8353	246434004	s4b2110.d	21-FEB-10 13:10
RE15-10-8355	246434006	s4b2111.d	21-FEB-10 13:32
RE15-10-8351	246434007	s4b2112.d	21-FEB-10 13:54
RE15-10-8350	246434008	s4b2113.d	21-FEB-10 14:17
RE15-10-8357	246434009	s4b2114.d	21-FEB-10 14:40
RE15-10-8338	246434010	s4b2115.d	21-FEB-10 15:02
RE15-10-8336	246434011	s4b2116.d	21-FEB-10 15:25
RE15-10-8339	246434012	s4b2117.d	21-FEB-10 15:48
RE15-10-8337	246434013	s4b2118.d	21-FEB-10 16:11
RE15-10-8375	246434014	s4b2119.d	21-FEB-10 16:33
RE15-10-8374	246434015	s4b2120.d	21-FEB-10 16:56

Internal Standard Area and RT Summary

Lab Name : GEL Laboratories LLC

Client SDG: 10-1620

Instrument: MSD4.1

STD Analysis Time: 20-FEB-10 15:00

GC Column: J&W DB-5MS

Data File: s4b2013.d

	1,4-Dichlorobenzene-d4			Naphthalene-d8			Acenaphthene-d10			Phcnanthrene-d10			Chrysene-d12			Perylene-d12							
	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#			
12 Hour STD	194395		3.94		825495		4.8		429249		6.05		661666		7.04		582982		8.75		527731		10.3
Upper Limit	388790		4.44		1650990		5.3		858498		6.55		1323332		7.54		1165964		9.25		1055462		10.8
Lower Limit	97198		3.44		412748		4.3		214625		5.55		330833		6.54		291491		8.25		263866		9.8
Sample ID																							
BLK01	155481		3.93		613164		4.8		323214		6.05		481222		7.04		349489		8.74		305670		10.3
BLK01LCS	168449		3.93		692313		4.8		358752		6.05		546264		7.04		439543		8.74		386215		10.3
RE15-10-8354	163176		3.93		655398		4.8		345585		6.05		523430		7.04		365664		8.73		266275		10.3
RE15-10-8356	173481		3.93		684245		4.8		356147		6.05		522718		7.04		331789		8.74		180052	*	10.3
RE15-10-8352	171665		3.93		684823		4.8		363653		6.05		545932		7.04		426516		8.73		305715		10.3

Area Upper Limit = +100% of internal standard area

Area Lower Limit = - 50% of internal standard area

RT Upper Limit = + 0.50 minutes of internal standard RT

RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

* Value outside of QC Limits

Internal Standard Area and RT Summary

Lab Name : GEL Laboratories LLC

Client SDG: 10-1620

Instrument: MSD4.I

STD Analysis Time: 21-FEB-10 11:34

GC Column: J&W DB-5MS

Data File: s4b2106.d

	1,4-Dichlorobenzene-d4				Naphthalene-d8				Acenaphthene-d10				Phenanthrene-d10				Chrysene-d12				Perylene-d12			
	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12 Hour STD	141610		3.9		587236		4.77		303287		6.03		484374		7.02		413810		8.72		325829		10.2	
Upper Limit	283220		4.4		1174472		5.27		606574		6.53		968748		7.52		827620		9.22		651658		10.7	
Lower Limit	70805		3.4		293618		4.27		151644		5.53		242187		6.52		206905		8.22		162915		9.74	
Sample ID																								
RE15-10-8353	138661		3.9		524115		4.76		290835		6.02		474913		7.01		435262		8.7		398946		10.2	
RE15-10-8355	140192		3.9		543031		4.76		301381		6.02		499315		7.01		460081		8.7		350530		10.2	
RE15-10-8351	135628		3.9		521793		4.76		291528		6.02		478446		7.01		411214		8.7		349704		10.2	
RE15-10-8350	129973		3.9		500344		4.76		280548		6.02		467812		7.01		405570		8.7		342543		10.2	
RE15-10-8357	133439		3.9		509078		4.76		282921		6.02		467539		7.01		412807		8.7		337115		10.2	
RE15-10-8338	143308		3.9		544791		4.76		304766		6.02		502720		7.01		445953		8.7		365187		10.2	
RE15-10-8336	136129		3.9		517470		4.76		290663		6.02		481426		7.01		439316		8.7		378874		10.2	
RE15-10-8339	131199		3.9		495385		4.77		281058		6.02		463215		7.01		423895		8.7		348154		10.2	
RE15-10-8337	134975		3.9		518209		4.76		291809		6.02		481156		7.01		424775		8.7		308074		10.2	
RE15-10-8375	131219		3.9		502599		4.76		283279		6.02		472369		7.01		419649		8.7		318598		10.2	
RE15-10-8374	138344		3.9		521768		4.76		293819		6.02		487509		7.01		441725		8.7		352995		10.2	

Area Upper Limit = +100% of internal standard area

Area Lower Limit = - 50% of internal standard area

RT Upper Limit = + 0.50 minutes of internal standard RT

RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

* Value outside of QC Limits

Sample Data

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434011	Date Received: 02/06/2010 09:15	%Moisture: 17.6
	Client: LANL.010	Project: LANL01004
Client ID: RE15-10-8336	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.1	Dilution: 1
Run Date: 02/21/2010 15:25	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s4b2116.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	403	ug/kg	80.5	403
108-95-2	Phenol	U	403	ug/kg	80.5	403
95-57-8	2-Chlorophenol	U	403	ug/kg	80.5	403
106-46-7	1,4-Dichlorobenzene	U	403	ug/kg	80.5	403
621-64-7	N-Nitrosodipropylamine	U	403	ug/kg	80.5	403
59-50-7	4-Chloro-3-methylphenol	U	403	ug/kg	80.5	403
83-32-9	Acenaphthene	U	40.3	ug/kg	13.3	40.3
121-14-2	2,4-Dinitrotoluene	U	403	ug/kg	40.3	403
100-02-7	4-Nitrophenol	U	403	ug/kg	133	403
87-86-5	Pentachlorophenol	U	403	ug/kg	101	403
129-00-0	Pyrene	U	40.3	ug/kg	12.1	40.3
110-86-1	Pyridine	U	403	ug/kg	80.5	403
62-53-3	Aniline	U	403	ug/kg	121	403
111-44-4	bis(2-Chloroethyl) ether	U	403	ug/kg	80.5	403
541-73-1	1,3-Dichlorobenzene	U	403	ug/kg	80.5	403
100-51-6	Benzyl alcohol	U	403	ug/kg	121	403
95-50-1	1,2-Dichlorobenzene	U	403	ug/kg	80.5	403
108-60-1	bis(2-Chloroisopropyl)ether	U	403	ug/kg	80.5	403
95-48-7	o-Cresol	U	403	ug/kg	80.5	403
65794-96-9	m,p-Cresols	U	403	ug/kg	121	403
67-72-1	Hexachloroethane	U	403	ug/kg	80.5	403
98-95-3	Nitrobenzene	U	403	ug/kg	80.5	403
78-59-1	Isophorone	U	403	ug/kg	80.5	403
88-75-5	2-Nitrophenol	U	403	ug/kg	80.5	403
105-67-9	2,4-Dimethylphenol	U	403	ug/kg	141	403
111-91-1	bis(2-Chloroethoxy)methane	U	403	ug/kg	80.5	403
120-83-2	2,4-Dichlorophenol	U	403	ug/kg	80.5	403
65-85-0	Benzoic acid	U	805	ug/kg	201	805
91-20-3	Naphthalene	U	40.3	ug/kg	12.1	40.3
106-47-8	4-Chloroaniline	U	403	ug/kg	80.5	403
87-68-3	Hexachlorobutadiene	U	403	ug/kg	80.5	403
91-57-6	2-Methylnaphthalene	U	40.3	ug/kg	8.05	40.3
77-47-4	Hexachlorocyclopentadiene	U	403	ug/kg	80.5	403
88-06-2	2,4,6-Trichlorophenol	U	403	ug/kg	80.5	403
95-95-4	2,4,5-Trichlorophenol	U	403	ug/kg	80.5	403
91-58-7	2-Chloronaphthalene	U	40.3	ug/kg	13.3	40.3
88-74-4	2-Nitroaniline	U	403	ug/kg	80.5	403
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	403	ug/kg	80.5	403

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434011	Date Received: 02/06/2010 09:15	%Moisture: 17.6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8336	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 15:25	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s4b2116.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDI/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	403	ug/kg	80.5	403
606-20-2	2,6-Dinitrotoluene	U	403	ug/kg	40.3	403
208-96-8	Acenaphthylene	U	40.3	ug/kg	12.1	40.3
51-28-5	2,4-Dinitrophenol	U	805	ug/kg	153	805
132-64-9	Dibenzofuran	U	403	ug/kg	80.5	403
84-66-2	Diethylphthalate	U	403	ug/kg	80.5	403
86-73-7	Fluorene	U	40.3	ug/kg	12.1	40.3
7005-72-3	4-Chlorophenylphenylether	U	403	ug/kg	80.5	403
534-52-1	2-Methyl-4,6-dinitrophenol	U	403	ug/kg	80.5	403
100-01-6	4-Nitroaniline	U	403	ug/kg	121	403
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	403	ug/kg	80.5	403
122-66-7	Azobenzene	U	403	ug/kg	80.5	403
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	403	ug/kg	80.5	403
118-74-1	Hexachlorobenzene	U	403	ug/kg	80.5	403
85-01-8	Phenanthrene	U	40.3	ug/kg	12.1	40.3
120-12-7	Anthracene	U	40.3	ug/kg	8.05	40.3
84-74-2	Di-n-butylphthalate	U	403	ug/kg	80.5	403
206-44-0	Fluoranthene	U	40.3	ug/kg	12.1	40.3
85-68-7	Butylbenzylphthalate	U	403	ug/kg	80.5	403
56-55-3	Benzo(a)anthracene	U	40.3	ug/kg	12.1	40.3
91-94-1	3,3'-Dichlorobenzidine	U	403	ug/kg	121	403
218-01-9	Chrysene	U	40.3	ug/kg	12.1	40.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	403	ug/kg	80.5	403
117-84-0	Di-n-octylphthalate	U	403	ug/kg	80.5	403
205-99-2	Benzo(b)fluoranthene	U	40.3	ug/kg	12.1	40.3
207-08-9	Benzo(k)fluoranthene	U	40.3	ug/kg	12.1	40.3
50-32-8	Benzo(a)pyrene	U	40.3	ug/kg	12.1	40.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	40.3	ug/kg	12.1	40.3
53-70-3	Dibenzo(a,h)anthracene	U	40.3	ug/kg	12.1	40.3
191-24-2	Benzo(ghi)perylene	U	40.3	ug/kg	12.1	40.3
120-82-1	1,2,4-Trichlorobenzene	U	403	ug/kg	80.5	403

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.94	404	ug/kg		J
	Unknown	9.41	590	ug/kg		J

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Data file : /chem/MSD4.i/s022110a.b/s4b2116.d
Lab Smp Id: 246434011 Client Smp ID: RE15-10-8336
Inj Date : 21-FEB-2010 15:25
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |246434011|951989|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1620.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.12000	weight of sample
M	17.55970	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.898	3.903 (1.000)	136129	40.0000	
* 29 Naphthalene-d8	136	4.765	4.770 (1.000)	517470	40.0000	
* 46 Acenaphthene-d10	164	6.021	6.027 (1.000)	290663	40.0000	
* 67 Phenanthrene-d10	188	7.011	7.016 (1.000)	481426	40.0000	
* 91 Chrysene-d12	240	8.696	8.717 (1.000)	439316	40.0000	
* 98 Perylene-d12	264	10.215	10.236 (1.000)	378874	40.0000	
\$ 3 2-Fluorophenol	112	3.090	3.090 (0.793)	233069	60.0853	2420
\$ 5 Phenol-d5	99	3.609	3.614 (0.926)	300966	61.7606	2490
\$ 20 Nitrobenzene-d5	82	4.262	4.267 (0.894)	131113	32.9946	1330
\$ 39 2-Fluorobiphenyl	172	5.508	5.513 (0.915)	210205	28.0086	1130
\$ 60 2,4,6-Tribromophenol	329	6.556	6.561 (1.089)	69736	76.7149	3090
\$ 81 p-Terphenyl-d14	244	7.931	7.941 (0.912)	252655	36.7901	1480

ION RATIO REPORT

SV REPORT

Data file: s4b2116.d

Report Date: 02/22/2010 07:42

Lab. ID: 246434011

SampleType: SAMPLE

Injection Date: 21-FEB-2010 15:25

Operator: JMB3

Instrument: MSD4.i

Sample Info: |246434011|951989|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01|

Comment:

Method used: /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1620

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline	CAS#: 62-53-3				
66	13287	3.61	3.69	80-120	100	(T)
93	170	3.47	3.69	455-515	1	(QT)

17	N-Nitrosodipropylamine	CAS#: 621-64-7				
70	17218	4.26	4.14	80-120	100	(T)
42	8105	4.26	4.14	24- 84	47	(T)

27	Benzoic acid	CAS#: 65-85-0				
105	318	4.51	4.55	80-120	100	()
122	180	4.52	4.55	40-100	57	()
77	343	4.51	4.55	39- 99	108	(Q)

43	Dimethylphthalate	CAS#: 131-11-3				
163	50428	6.02	5.79	80-120	100	(T)
164	290663	6.02	5.79	0- 40	576	(QT)

44	2,6-Dinitrotoluene	CAS#: 606-20-2				
165	37223	6.02	5.85	80-120	100	(T)
63	332	6.02	5.85	49-109	1	(QT)

50	2,4-Dinitrotoluene	CAS#: 121-14-2				
165	37223	6.02	6.13	80-120	100	(T)
89	472	6.02	6.13	52-112	1	(QT)
63	332	6.02	6.13	19- 79	1	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
53	Fluorene		CAS#:	86-73-7		
166	2756	6.56	6.40	80-120	100	(T)
165	2834	6.56	6.40	59-119	103	(T)
167	911	6.56	6.40	0- 44	33	(T)

 Q qualifier indicates ion failed ratio requirement

Data File: /chem/MSD4.i/s022110a.b/s4b2116.d
Report Date: 22-Feb-2010 08:16

Page 1

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Data file : /chem/MSD4.i/s022110a.b/s4b2116.d
Lab Smp Id: 246434011 Client Smp ID: RE15-10-8336
Inj Date : 21-FEB-2010 15:25
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |246434011|951989|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1620.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.12000	weight of sample
M	17.55970	% moisture

Cpnd Variable

Local Compound Variable

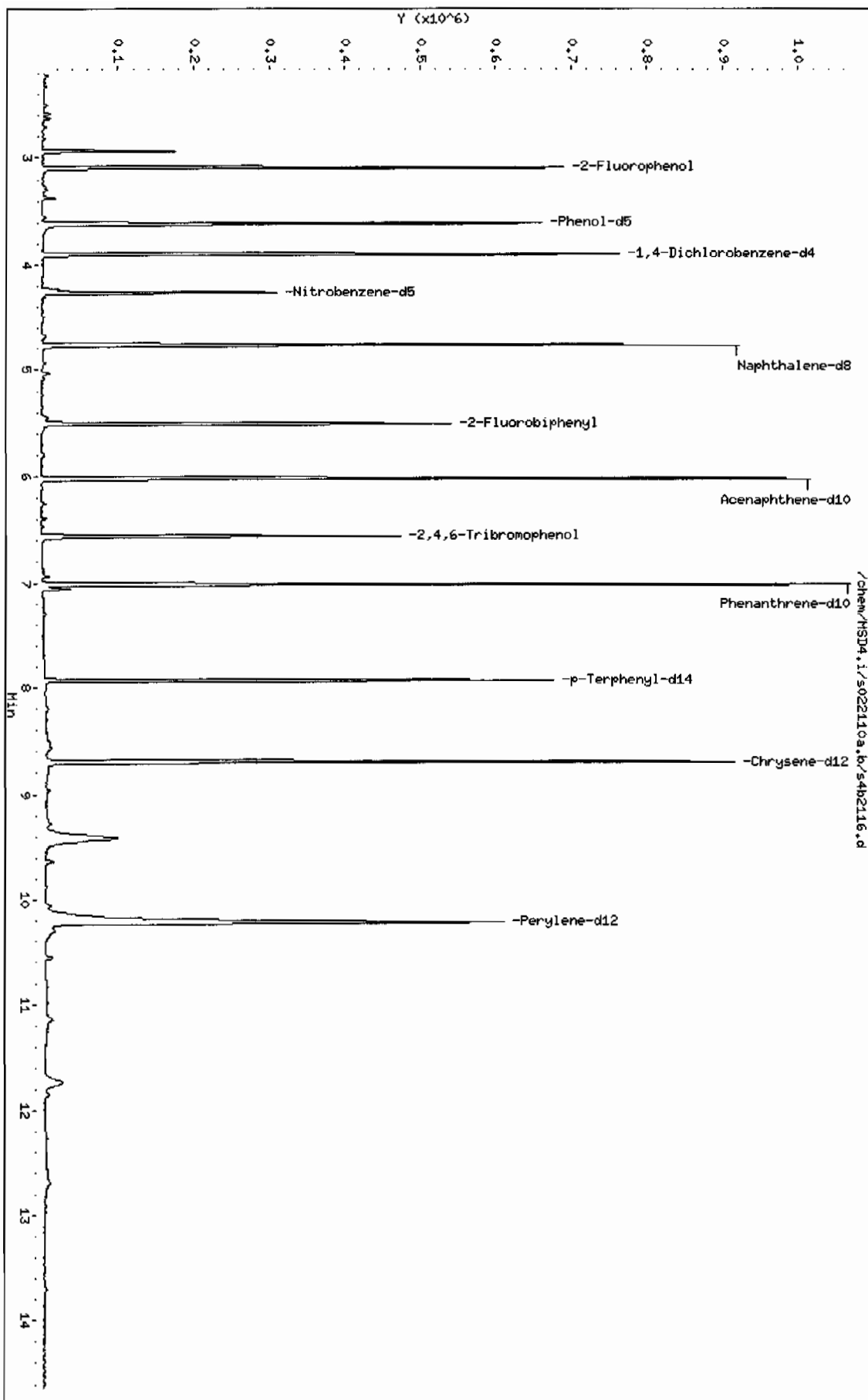
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.898	832248	40.000
* 91 Chrysene-d12	8.696	1132885	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate							
2.935	208954	10.0428470	404	0		0	10

RT	CONCENTRATIONS				QUANT		
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	=====	=====	====	=====	=====	=====
Unknown					CAS #:		
9.407	414969	14.6517553	590	0		0	91

Data File: /chem/MSD4.i/s022110a.b/s4b2116.d
Date: 21-FEB-2010 15:25
Client ID: RE15-10-8336
Sample Info: 1246434011961989111SW111.LNL
Volume Injected (uL): 0.5
Column phase: JSM DB-SMS

Instrument: MSD4.i
Operator: JHB3
Column diameter: 0.20



Date : 21-FEB-2010 15:25

Client ID: RE15-10-8336

Instrument: MSD4.i

Sample Info: I246434011195198911SVH11ILANL

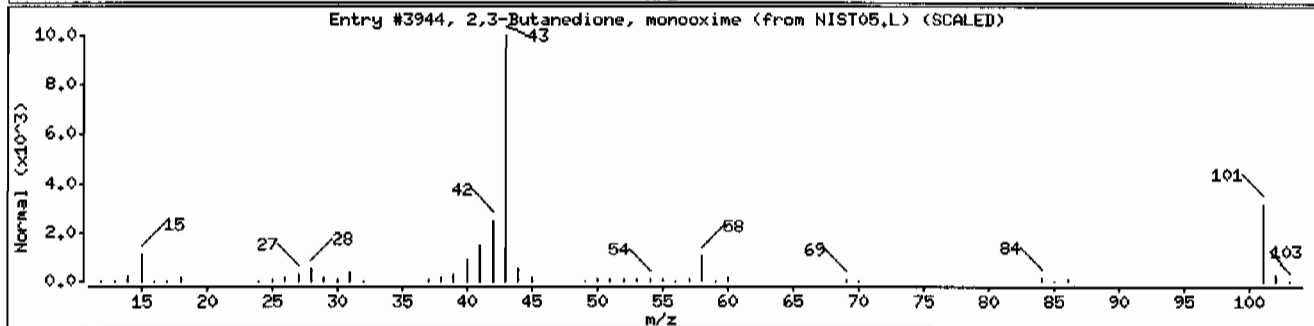
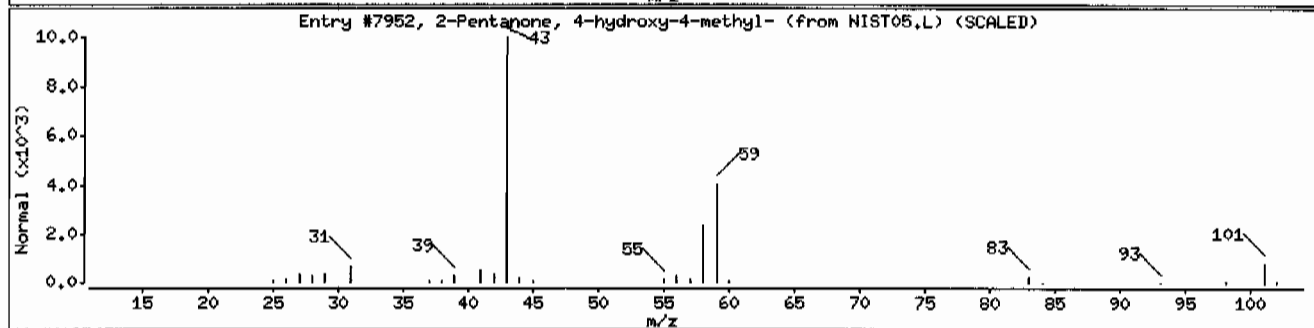
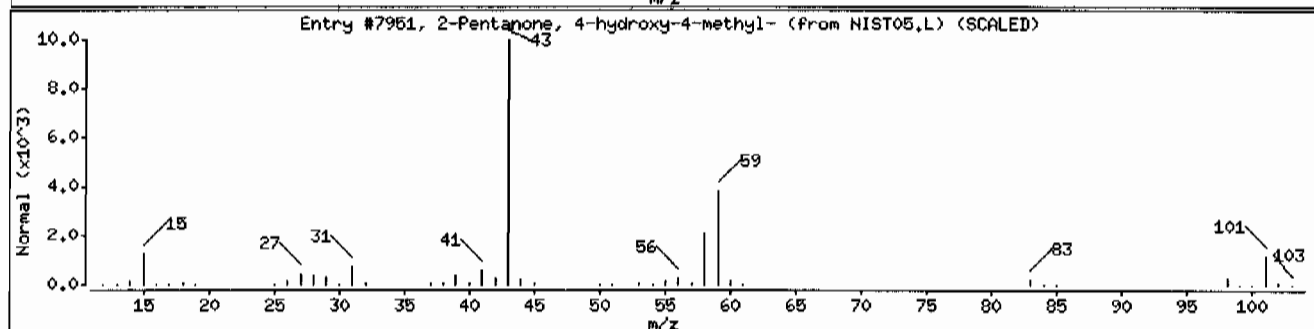
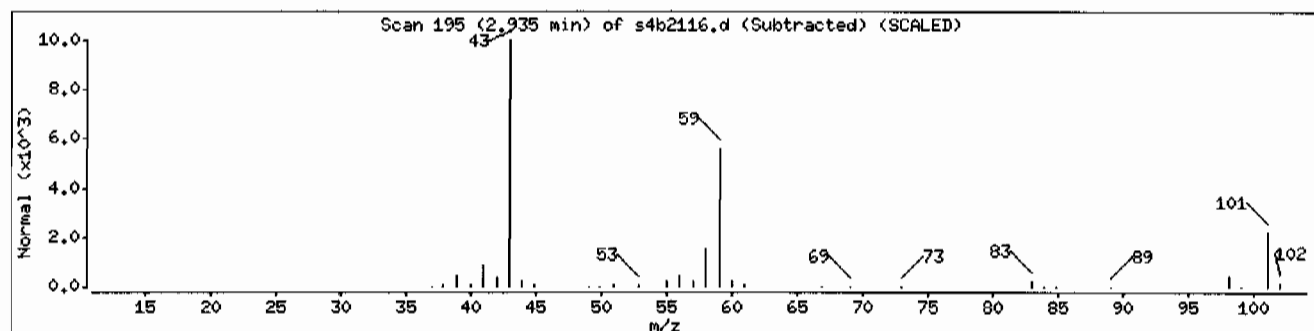
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	38	C6H12O2	116
2,3-Butanedione, monooxime	57-71-6	NIST05.L	3944	17	C4H7NO2	101



Date : 21-FEB-2010 15:25

Client ID: RE15-10-8336

Instrument: MSD4.i

Sample Info: I246434011/951989111SVH11ILANL

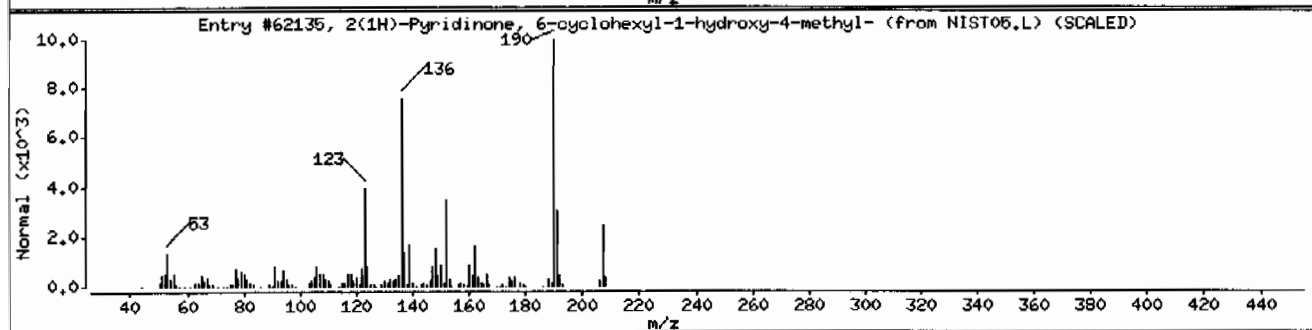
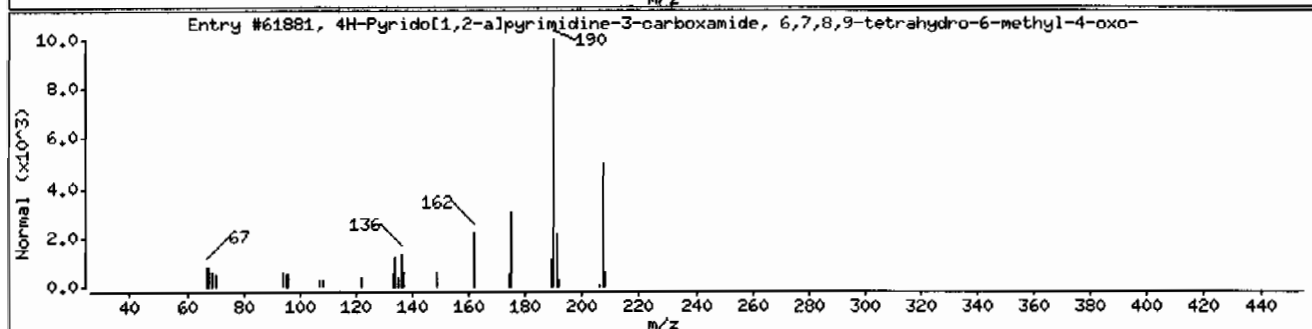
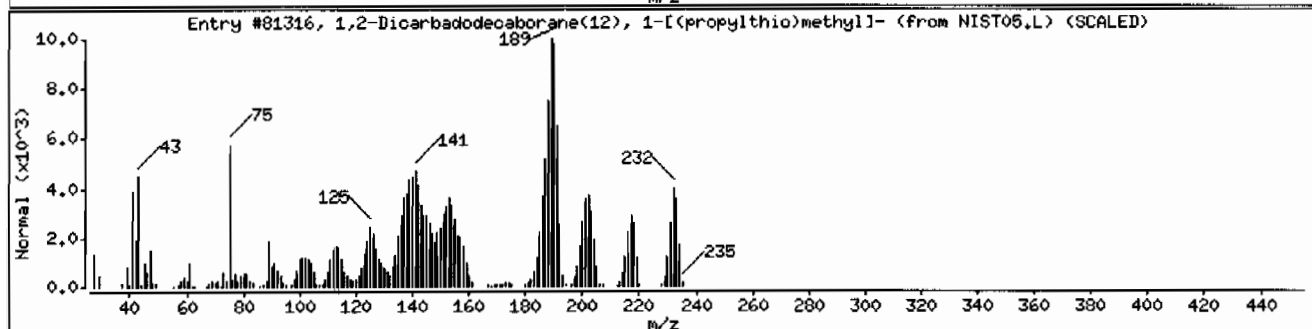
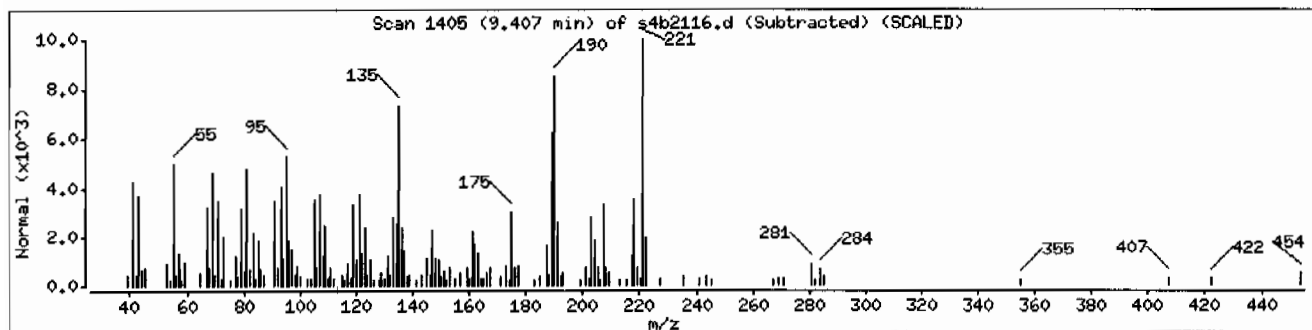
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,2-Dicarbadoecaborane(12), 1-[(propylt	62906-36-9	NIST05.L	81316	53	C6H20B10S	234
4H-Pyrido[1,2-a]pyrimidine-3-carboxamide	33484-45-6	NIST05.L	61881	35	C10H13N3O2	207
2(1H)-Pyridinone, 6-cyclohexyl-1-hydroxy	29342-05-0	NIST05.L	62135	25	C12H17N02	207



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434013	Date Received: 02/06/2010 09:15	%Moisture: 11.4
	Client: LANL010	Project: I:ANL01004
Client ID: RE15-10-8337	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 16:11	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.02 g	Final Volume: 1 mL
Data File: s4b2118.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	376	ug/kg	75.2	376
108-95-2	Phenol	U	376	ug/kg	75.2	376
95-57-8	2-Chlorophenol	U	376	ug/kg	75.2	376
106-46-7	1,4-Dichlorobenzene	U	376	ug/kg	75.2	376
621-64-7	N-Nitrosodipropylamine	U	376	ug/kg	75.2	376
59-50-7	4-Chloro-3-methylphenol	U	376	ug/kg	75.2	376
83-32-9	Acenaphthene	U	37.6	ug/kg	12.4	37.6
121-14-2	2,4-Dinitrotoluene	U	376	ug/kg	37.6	376
100-02-7	4-Nitrophenol	U	376	ug/kg	124	376
87-86-5	Pentachlorophenol	U	376	ug/kg	94.0	376
129-00-0	Pyrene	U	37.6	ug/kg	11.3	37.6
110-86-1	Pyridine	U	376	ug/kg	75.2	376
62-53-3	Aniline	U	376	ug/kg	113	376
111-44-4	bis(2-Chloroethyl) ether	U	376	ug/kg	75.2	376
541-73-1	1,3-Dichlorobenzene	U	376	ug/kg	75.2	376
100-51-6	Benzyl alcohol	U	376	ug/kg	113	376
95-50-1	1,2-Dichlorobenzene	U	376	ug/kg	75.2	376
108-60-1	bis(2-Chloroisopropyl)ether	U	376	ug/kg	75.2	376
95-48-7	o-Cresol	U	376	ug/kg	75.2	376
65794-96-9	m,p-Cresols	U	376	ug/kg	113	376
67-72-1	Hexachloroethane	U	376	ug/kg	75.2	376
98-95-3	Nitrobenzene	U	376	ug/kg	75.2	376
78-59-1	Isophorone	U	376	ug/kg	75.2	376
88-75-5	2-Nitrophenol	U	376	ug/kg	75.2	376
105-67-9	2,4-Dimethylphenol	U	376	ug/kg	132	376
111-91-1	bis(2-Chloroethoxy)methane	U	376	ug/kg	75.2	376
120-83-2	2,4-Dichlorophenol	U	376	ug/kg	75.2	376
65-85-0	Benzoic acid	U	752	ug/kg	188	752
91-20-3	Naphthalene	U	37.6	ug/kg	11.3	37.6
106-47-8	4-Chloroaniline	U	376	ug/kg	75.2	376
87-68-3	Hexachlorobutadiene	U	376	ug/kg	75.2	376
91-57-6	2-Methylnaphthalene	U	37.6	ug/kg	7.52	37.6
77-47-4	Hexachlorocyclopentadiene	U	376	ug/kg	75.2	376
88-06-2	2,4,6-Trichlorophenol	U	376	ug/kg	75.2	376
95-95-4	2,4,5-Trichlorophenol	U	376	ug/kg	75.2	376
91-58-7	2-Chloronaphthalene	U	37.6	ug/kg	12.4	37.6
88-74-4	2-Nitroaniline	U	376	ug/kg	75.2	376
99-09-2	<i>o</i> -Nitroaniline	U	376	ug/kg	75.2	376
	3-Nitroaniline					

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434013	Date Received: 02/06/2010 09:15	%Moisture: 11.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8337	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 16:11	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.02 g	Final Volume: 1 mL
Data File: s4b2118.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	376	ug/kg	75.2	376
606-20-2	2,6-Dinitrotoluene	U	376	ug/kg	37.6	376
208-96-8	Acenaphthylene	U	37.6	ug/kg	11.3	37.6
51-28-5	2,4-Dinitrophenol	U	752	ug/kg	143	752
132-64-9	Dibenzofuran	U	376	ug/kg	75.2	376
84-66-2	Diethylphthalate	U	376	ug/kg	75.2	376
86-73-7	Fluorene	U	37.6	ug/kg	11.3	37.6
7005-72-3	4-Chlorophenylphenylether	U	376	ug/kg	75.2	376
534-52-1	2-Methyl-4,6-dinitrophenol	U	376	ug/kg	75.2	376
100-01-6	4-Nitroaniline	U	376	ug/kg	113	376
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	376	ug/kg	75.2	376
122-66-7	Azobenzene	U	376	ug/kg	75.2	376
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	376	ug/kg	75.2	376
118-74-1	Hexachlorobenzene	U	376	ug/kg	75.2	376
85-01-8	Phenanthrene	U	37.6	ug/kg	11.3	37.6
120-12-7	Anthracene	U	37.6	ug/kg	7.52	37.6
84-74-2	Di-n-butylphthalate	U	376	ug/kg	75.2	376
206-44-0	Fluoranthene	U	37.6	ug/kg	11.3	37.6
85-68-7	Butylbenzylphthalate	U	376	ug/kg	75.2	376
56-55-3	Benzo(a)anthracene	U	37.6	ug/kg	11.3	37.6
91-94-1	3,3'-Dichlorobenzidine	U	376	ug/kg	113	376
218-01-9	Chrysene	U	37.6	ug/kg	11.3	37.6
117-81-7	bis(2-Ethylhexyl)phthalate	U	376	ug/kg	75.2	376
117-84-0	Di-n-octylphthalate	U	376	ug/kg	75.2	376
205-99-2	Benzo(b)fluoranthene	U	37.6	ug/kg	11.3	37.6
207-08-9	Benzo(k)fluoranthene	U	37.6	ug/kg	11.3	37.6
50-32-8	Benzo(a)pyrene	U	37.6	ug/kg	11.3	37.6
193-39-5	Indeno(1,2,3-cd)pyrene	U	37.6	ug/kg	11.3	37.6
53-70-3	Dibenzo(a,h)anthracene	U	37.6	ug/kg	11.3	37.6
191-24-2	Benzo(ghi)perylene	U	37.6	ug/kg	11.3	37.6
120-82-1	1,2,4-Trichlorobenzene	U	376	ug/kg	75.2	376

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.94	361	ug/kg		J

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Data file : /chem/MSD4.i/s022110a.b/s4b2118.d
Lab Smp Id: 246434013 Client Smp ID: RE15-10-8337
Inj Date : 21-FEB-2010 16:11
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |246434013|951989|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1620.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.02000	weight of sample
M	11.41180	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.898	3.903 (1.000)	134975	40.0000	
* 29 Naphthalene-d8	136	4.765	4.770 (1.000)	518209	40.0000	
* 46 Acenaphthene-d10	164	6.021	6.027 (1.000)	291809	40.0000	
* 67 Phenanthrene-d10	188	7.011	7.016 (1.000)	481156	40.0000	
* 91 Chrysene-d12	240	8.696	8.717 (1.000)	424775	40.0000	
* 98 Perylene-d12	264	10.215	10.236 (1.000)	308074	40.0000	
\$ 3 2-Fluorophenol	112	3.090	3.090 (0.793)	236763	61.5595	2310
\$ 5 Phenol-d5	99	3.609	3.614 (0.926)	308841	63.9185	2400
\$ 20 Nitrobenzene-d5	82	4.262	4.267 (0.894)	135475	34.0437	1280
\$ 39 2-Fluorobiphenyl	172	5.513	5.513 (0.916)	228886	30.3779	1140
\$ 60 2,4,6-Tribromophenol	329	6.556	6.561 (1.089)	73092	80.0910	3010
\$ 81 p-Terphenyl-d14	244	7.931	7.941 (0.912)	259054	39.0132	1470

ION RATIO REPORT

SV REPORT

Data file: s4b2118.d

Report Date: 02/22/2010 07:42

Lab. ID: 246434013

SampleType: SAMPLE

Injection Date: 21-FEB-2010 16:11

Operator: JMB3

Instrument: MSD4.i

Sample Info: |246434013|951989|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01|

Comment:

Method used: /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1620

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline	CAS#: 62-53-3				
66	13485	3.61	3.69	80-120	100	(T)
93	350	3.47	3.69	455-515	3	(QT)

17	N-Nitrosodipropylamine	CAS#: 621-64-7				
70	17768	4.26	4.14	80-120	100	(T)
42	8265	4.26	4.14	24- 84	47	(T)

43	Dimethylphthalate	CAS#: 131-11-3				
163	51022	6.02	5.79	80-120	100	(T)
164	291809	6.02	5.79	0- 40	572	(QT)

44	2,6-Dinitrotoluene	CAS#: 606-20-2				
165	37662	6.02	5.85	80-120	100	(T)
63	328	6.02	5.85	49-109	1	(QT)

50	2,4-Dinitrotoluene	CAS#: 121-14-2				
165	37662	6.02	6.13	80-120	100	(T)
89	427	6.02	6.13	52-112	1	(QT)
63	328	6.02	6.13	19- 79	1	(QT)

53	Fluorene	CAS#: 86-73-7				
166	3525	6.56	6.40	80-120	100	(T)
165	3042	6.56	6.40	59-119	86	(T)
167	1102	6.56	6.40	0- 44	31	(T)

Q qualifier indicates ion failed ratio requirement

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Data file : /chem/MSD4.i/s022110a.b/s4b2118.d
Lab Smp Id: 246434013 Client Smp ID: RE15-10-8337
Inj Date : 21-FEB-2010 16:11
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |246434013|951989|1|SVM|1|LANL
Misc Info : |MSD8270 S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1620.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf *Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.02000	weight of sample
M	11.41180	% moisture

Cpnd Variable

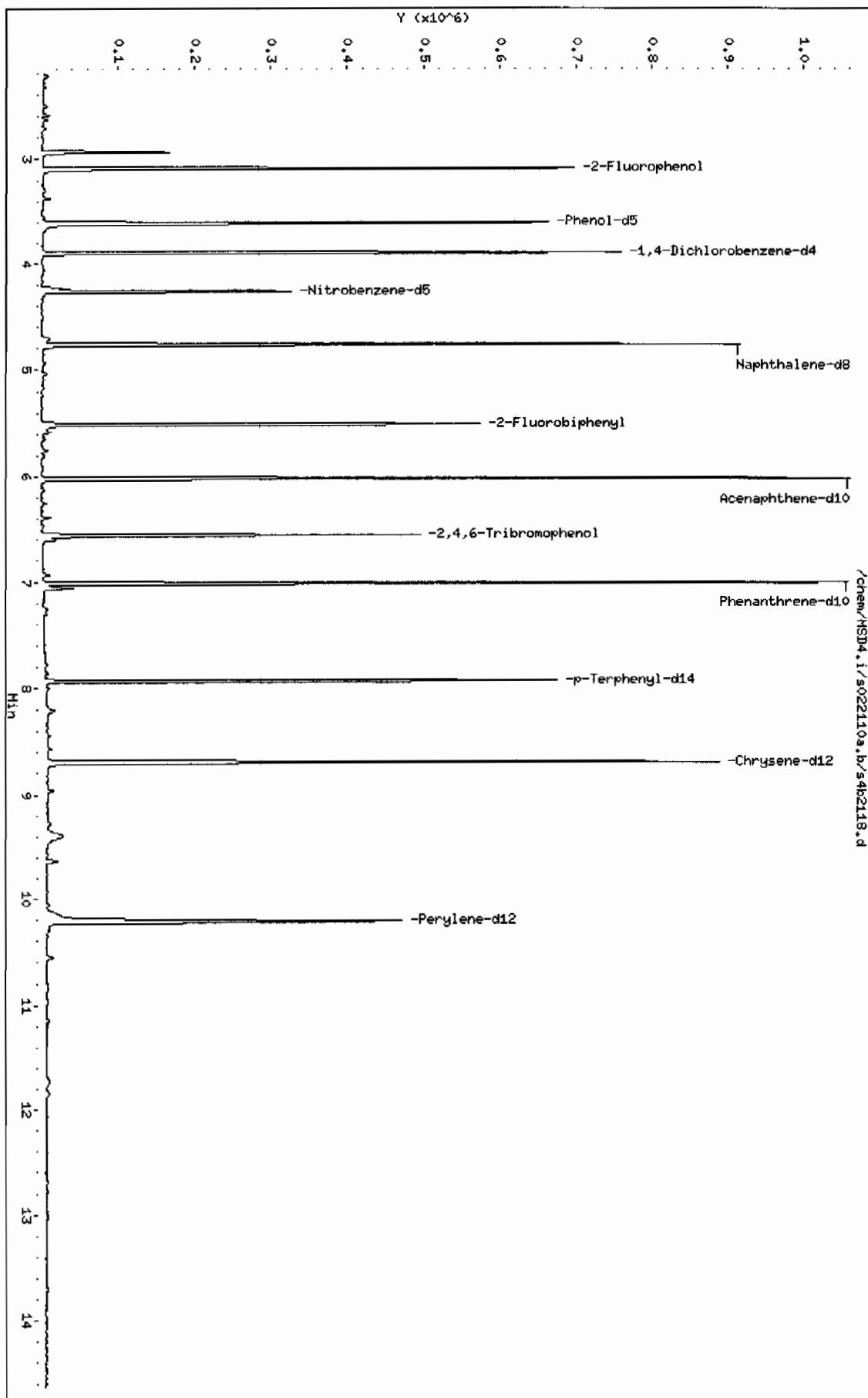
Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.898	825096	40.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate					CAS #:		
2.935	197769	9.58768878	360	0		0	10

Data File: /chem/HSD4.i/s022110a.b/s4b2118.d
Date: 21-FEB-2010 16:11
Client ID: REL5-10-8337
Sample Info: 1246434013/95198911/SVN11/LANL
Volume Injected (uL): 0.5
Column phase: 3uM DB-SHS

Instrument: HSD4.i
Operator: JMB3
Column diameter: 0.20



Date : 21-FEB-2010 16:11

Client ID: RE15-10-8337

Instrument: HSD4.i

Sample Info: 12464340131951989111SVH11ILANL

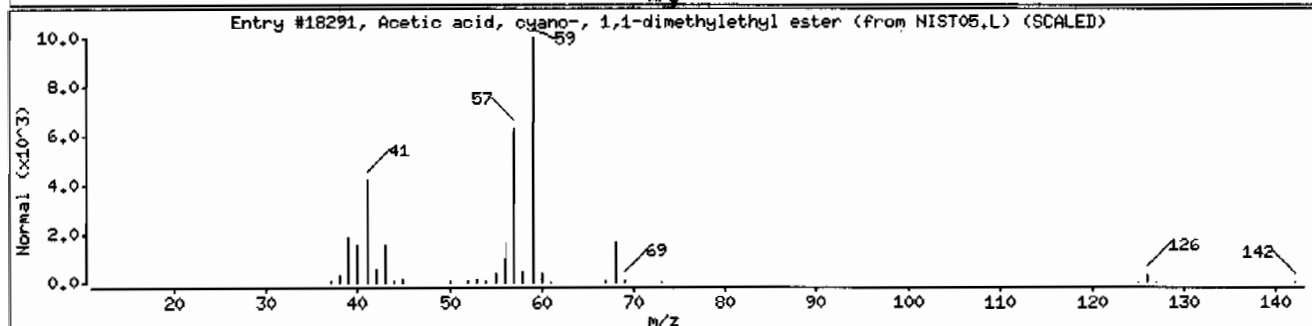
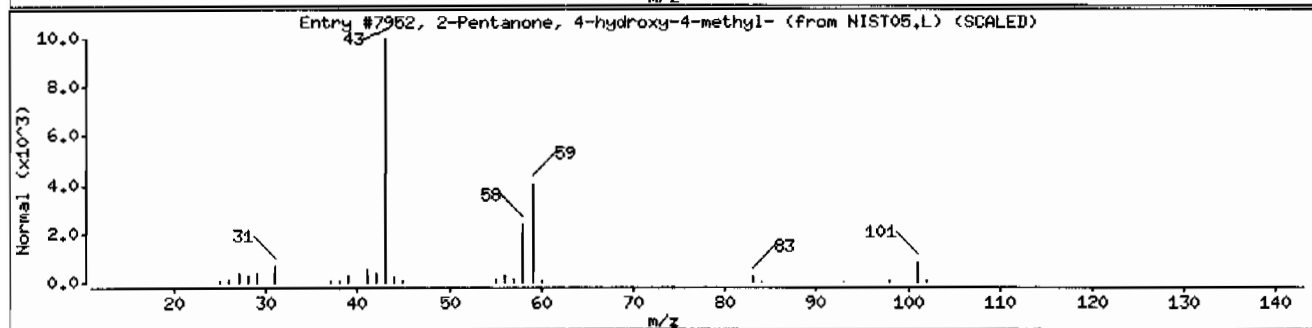
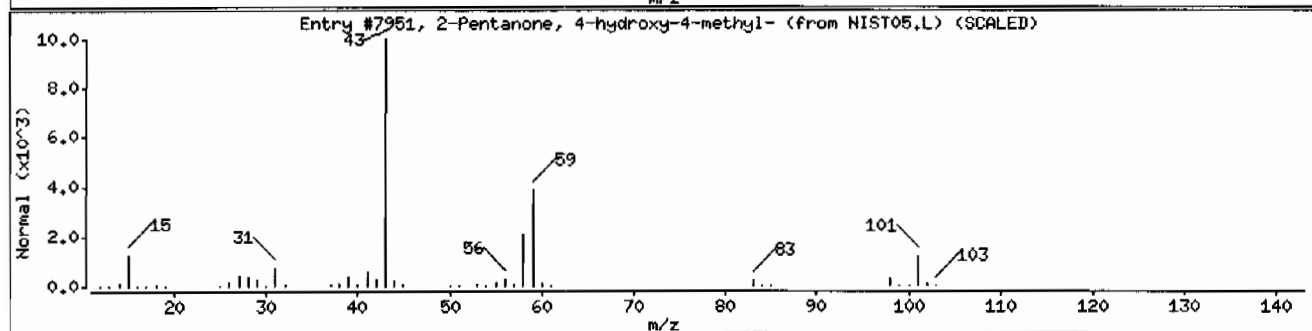
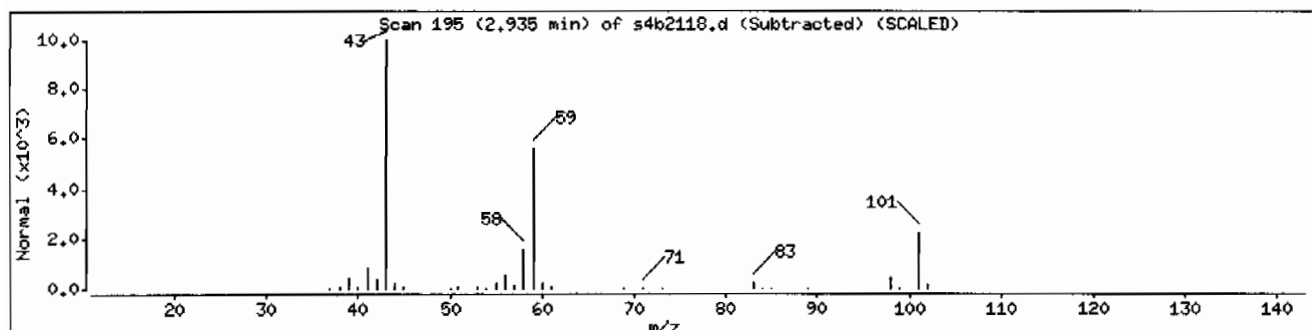
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	50	C6H12O2	116
Acetic acid, cyano-, 1,1-dimethylethyl e	1116-98-9	NIST05.L	18291	17	C7H11NO2	141



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434010

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.12 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 22.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	428	ug/kg	85.5	428
108-95-2	Phenol	U	428	ug/kg	85.5	428
95-57-8	2-Chlorophenol	U	428	ug/kg	85.5	428
106-46-7	1,4-Dichlorobenzene	U	428	ug/kg	85.5	428
621-64-7	N-Nitrosodipropylamine	U	428	ug/kg	85.5	428
59-50-7	4-Chloro-3-methylphenol	U	428	ug/kg	85.5	428
83-32-9	Acenaphthene	U	42.8	ug/kg	14.1	42.8
121-14-2	2,4-Dinitrotoluene	U	428	ug/kg	42.8	428
100-02-7	4-Nitrophenol	U	428	ug/kg	141	428
87-86-5	Pentachlorophenol	U	428	ug/kg	107	428
129-00-0	Pyrene	U	42.8	ug/kg	12.8	42.8
110-86-1	Pyridine	U	428	ug/kg	85.5	428
62-53-3	Aniline	U	428	ug/kg	128	428
111-44-4	bis(2-Chloroethyl) ether	U	428	ug/kg	85.5	428
541-73-1	1,3-Dichlorobenzene	U	428	ug/kg	85.5	428
100-51-6	Benzyl alcohol	U	428	ug/kg	128	428
95-50-1	1,2-Dichlorobenzene	U	428	ug/kg	85.5	428
108-60-1	bis(2-Chloroisopropyl)ether	U	428	ug/kg	85.5	428
95-48-7	o-Cresol	U	428	ug/kg	85.5	428
65794-96-9	m,p-Cresols	U	428	ug/kg	128	428
67-72-1	Hexachloroethane	U	428	ug/kg	85.5	428
98-95-3	Nitrobenzene	U	428	ug/kg	85.5	428
78-59-1	Isophorone	U	428	ug/kg	85.5	428
88-75-5	2-Nitrophenol	U	428	ug/kg	85.5	428
105-67-9	2,4-Dimethylphenol	U	428	ug/kg	150	428
111-91-1	bis(2-Chloroethoxy)methane	U	428	ug/kg	85.5	428
120-83-2	2,4-Dichlorophenol	U	428	ug/kg	85.5	428
65-85-0	Benzoic acid	U	855	ug/kg	214	855
91-20-3	Naphthalene	U	42.8	ug/kg	12.8	42.8
106-47-8	4-Chloroaniline	U	428	ug/kg	85.5	428
87-68-3	Hexachlorobutadiene	U	428	ug/kg	85.5	428
91-57-6	2-Methylnaphthalene	U	42.8	ug/kg	8.55	42.8
77-47-4	Hexachlorocyclopentadiene	U	428	ug/kg	85.5	428
88-06-2	2,4,6-Trichlorophenol	U	428	ug/kg	85.5	428
95-95-4	2,4,5-Trichlorophenol	U	428	ug/kg	85.5	428
91-58-7	2-Chloronaphthalene	U	42.8	ug/kg	14.1	42.8
88-74-4	2-Nitroaniline	U	428	ug/kg	85.5	428
99-09-2	<i>o</i> -Nitroaniline	U	428	ug/kg	85.5	428
	3-Nitroaniline					

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434010	Date Received: 02/06/2010 09:15	%Moisture: 22.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8338	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.1	Dilution: I
Run Date: 02/21/2010 15:02	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s4b2115.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	428	ug/kg	85.5	428
606-20-2	2,6-Dinitrotoluene	U	428	ug/kg	42.8	428
208-96-8	Accnaphthylene	U	42.8	ug/kg	12.8	42.8
51-28-5	2,4-Dinitrophenol	U	855	ug/kg	163	855
132-64-9	Dibenzofuran	U	428	ug/kg	85.5	428
84-66-2	Diethylphthalate	U	428	ug/kg	85.5	428
86-73-7	Fluorene	U	42.8	ug/kg	12.8	42.8
7005-72-3	4-Chlorophenylphenylether	U	428	ug/kg	85.5	428
534-52-1	2-Methyl-4,6-dinitrophenol	U	428	ug/kg	85.5	428
100-01-6	4-Nitroaniline	U	428	ug/kg	128	428
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	428	ug/kg	85.5	428
122-66-7	Azobenzene	U	428	ug/kg	85.5	428
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	428	ug/kg	85.5	428
118-74-1	Hexachlorobenzene	U	428	ug/kg	85.5	428
85-01-8	Phenanthrene	U	42.8	ug/kg	12.8	42.8
120-12-7	Anthracene	U	42.8	ug/kg	8.55	42.8
84-74-2	Di-n-butylphthalate	U	428	ug/kg	85.5	428
206-44-0	Fluoranthene	U	42.8	ug/kg	12.8	42.8
85-68-7	Butylbenzylphthalate	U	428	ug/kg	85.5	428
56-55-3	Benzo(a)anthracene	U	42.8	ug/kg	12.8	42.8
91-94-1	3,3'-Dichlorobenzidine	U	428	ug/kg	128	428
218-01-9	Chrysene	U	42.8	ug/kg	12.8	42.8
117-81-7	bis(2-Ethylhexyl)phthalate	U	428	ug/kg	85.5	428
117-84-0	Di-n-octylphthalate	U	428	ug/kg	85.5	428
205-99-2	Benzo(b)fluoranthene	U	42.8	ug/kg	12.8	42.8
207-08-9	Benzo(k)fluoranthene	U	42.8	ug/kg	12.8	42.8
50-32-8	Benzo(a)pyrene	U	42.8	ug/kg	12.8	42.8
193-39-5	Indeno(1,2,3-cd)pyrene	U	42.8	ug/kg	12.8	42.8
53-70-3	Dibenzo(a,h)anthracene	U	42.8	ug/kg	12.8	42.8
191-24-2	Benzo(ghi)perylene	U	42.8	ug/kg	12.8	42.8
120-82-1	1,2,4-Trichlorobenzene	U	428	ug/kg	85.5	428

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.93	315	ug/kg		J
7785-70-8	1R-.alpha.-Pinene	3.47	1090	ug/kg	95	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434010	Date Received: 02/06/2010 09:15	%Moisture: 22.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8338	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4J	Dilution: 1
Run Date: 02/21/2010 15:02	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s4b2115.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
13466-78-9	3-Carene	3.86	1480	ug/kg	95	NJ
	Unknown	4.23	180	ug/kg		J
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.75	825	ug/kg	99	NJ
	Unknown	8.06	421	ug/kg		J
	Unknown	8.18	226	ug/kg		J
	Unknown	8.43	765	ug/kg		J
	Unknown	9.4	265	ug/kg		J

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Data file : /chem/MSD4.i/s022110a.b/s4b2115.d
Lab Smp Id: 246434010 Client Smp ID: RE15-10-8338
Inj Date : 21-FEB-2010 15:02
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |246434010|951989|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1620.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.12000	weight of sample
M	22.37800	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4		152	3.898	3.903	(1.000)	143308	40.0000	
* 29 Naphthalene-d8		136	4.765	4.770	(1.000)	544791	40.0000	
* 46 Acenaphthene-d10		164	6.021	6.027	(1.000)	304766	40.0000	
* 67 Phenanthrene-d10		188	7.011	7.016	(1.000)	502720	40.0000	
* 91 Chrysene-d12		240	8.701	8.717	(1.000)	445953	40.0000	
* 98 Perylene-d12		264	10.220	10.236	(1.000)	365187	40.0000	
\$ 3 2-Fluorophenol		112	3.090	3.090	(0.793)	187256	45.8564	1960
\$ 5 Phenol-d5		99	3.609	3.614	(0.926)	240353	46.8516	2000
\$ 20 Nitrobenzene-d5		82	4.262	4.267	(0.894)	104055	24.8723	1060
\$ 39 2-Fluorobiphenyl		172	5.508	5.513	(0.915)	172741	21.9516	939
\$ 60 2,4,6-Tribromophenol		329	6.556	6.561	(1.089)	57338	60.1573	2570
\$ 81 p-Terphenyl-d14		244	7.936	7.941	(0.912)	193192	27.7128	1180

ION RATIO REPORT

SV REPORT

Data file: s4b2115.d

Report Date: 02/22/2010 07:42

Lab. ID: 246434010

SampleType: SAMPLE

Injection Date: 21-FEB-2010 15:02

Operator: JMB3

Instrument: MSD4.i

Sample Info: |246434010|951989|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01|

Comment:

Method used: /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1620

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline	CAS#: 62-53-3				
66	10292	3.61	3.69	80-120	100	(T)
93	1097	3.58	3.69	455-515	11	(QT)

6	Phenol	CAS#: 108-95-2				
94	13135	3.47	3.63	80-120	100	(T)
66	2275	3.47	3.63	8- 68	17	(T)
65	8121	3.47	3.63	0- 57	62	(QT)

15	o-Cresol	CAS#: 95-48-7				
107	10613	3.86	4.02	80-120	100	(T)
108	2233	3.86	4.02	90-150	21	(QT)
77	55963	3.86	4.02	22- 82	527	(QT)

17	N-Nitrosodipropylamine	CAS#: 621-64-7				
70	14276	4.26	4.14	80-120	100	(T)
42	7048	4.26	4.14	24- 84	49	(T)

27	Benzoic acid	CAS#: 65-85-0				
105	323	4.56	4.55	80-120	100	()
122	1018	4.50	4.55	40-100	315	(Q)
77	172	4.57	4.55	39- 99	53	()

40	2-Chloronaphthalene	CAS#: 91-58-7				
162	5924	5.75	5.63	80-120	100	(T)
164	283	5.75	5.63	3- 63	5	(T)
127	378	5.75	5.63	6- 66	6	(T)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
42 o-Nitroaniline				CAS#: 88-74-4		
65	7379	5.75	5.68	80-120	100	(T)
92	10106	5.75	5.68	40-100	137	(QT)
138	643	5.75	5.68	69-129	9	(QT)

43 Dimethylphthalate				CAS#: 131-11-3		
163	53475	6.02	5.79	80-120	100	(T)
164	304766	6.02	5.79	0- 40	570	(QT)

44 2,6-Dinitrotoluene				CAS#: 606-20-2		
165	39238	6.02	5.85	80-120	100	(T)
63	328	6.02	5.85	49-109	1	(QT)

50 2,4-Dinitrotoluene				CAS#: 121-14-2		
165	39238	6.02	6.13	80-120	100	(T)
89	418	6.02	6.13	52-112	1	(QT)
63	328	6.02	6.13	19- 79	1	(QT)

85 Butylbenzylphthalate				CAS#: 85-68-7		
149	16539	8.43	8.21	80-120	100	(T)
91	13874	8.43	8.21	52-112	84	(T)
206	142	8.43	8.21	0- 54	1	(T)

93 bis(2-Ethylhexyl)phthalate				CAS#: 117-81-7		
149	19106	8.43	8.58	80-120	100	(T)
167	2837	8.44	8.58	3- 63	15	(T)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/MSD4.i/s022110a.b/s4b2115.d
Report Date: 22-Feb-2010 08:15

Page 1

GEL Laboratories LLC

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Data file : /chem/MSD4.i/s022110a.b/s4b2115.d
Lab Smp Id: 246434010 Client Smp ID: RE15-10-8338
Inj Date : 21-FEB-2010 15:02
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |246434010|951989|1|SVM|1|LANL
Misc Info : |MSD8270 S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1620.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.12000	weight of sample
M	22.37800	% moisture

Cpnd Variable Local Compound Variable

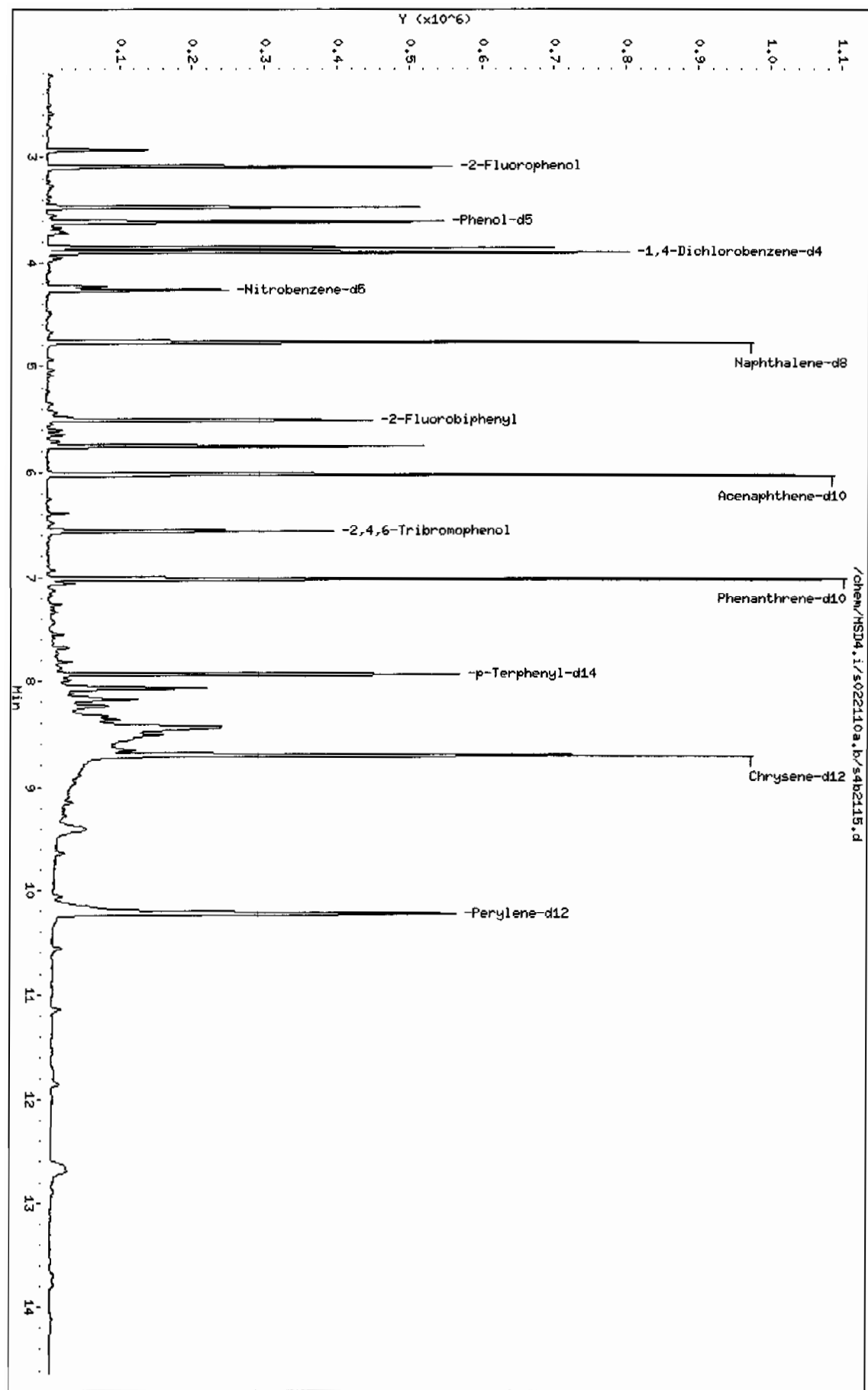
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.898	863568	40.000
* 46 Acenaphthene-d10	6.021	1266227	40.000
* 91 Chrysene-d12	8.701	1302465	40.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate					CAS #:		
2.930	158764	7.35386349	314	0		0	10
1R-.alpha.-Pinene					CAS #: 7785-70-8		
3.470	549698	25.4616967	1090	95	NIST05.L	15186	10
3-Carene					CAS #: 13466-78-9		
3.855	749204	34.7027044	1480	95	NIST05.L	15156	10
Unknown					CAS #:		
4.230	90611	4.19704990	180	0		0	10
1,4-Methanoazulene, decahydro-4,8,8-trim					CAS #: 475-20-7		
5.754	610926	19.2990952	825	99	NIST05.L	60020	46
Unknown					CAS #:		
8.065	320768	9.85111846	421	0		0	91
Unknown					CAS #:		
8.177	171957	5.28097172	226	0		0	91
Unknown					CAS #:		
8.428	582611	17.8925533	765	0		0	91
Unknown					CAS #:		
9.396	201579	6.19068535	265	0		0	91

Data File: /chem/MSD4.i/s022110a.b/s4b2115.d
Date: 21-FEB-2010 15:02
Client ID: RE15-10-8338
Sample Info: 12463401096199111SVH11.LANL
Volume Injected (uL): 0.5
Column phase: J&W DB-5MS

Instrument: MSD4.i
Operator: JHB3
Column diameter: 0.20



Date : 21-FEB-2010 15:02

Client ID: RE15-10-8338

Instrument: MSD4.i

Sample Info: 12464340101951989111SVH111LANL

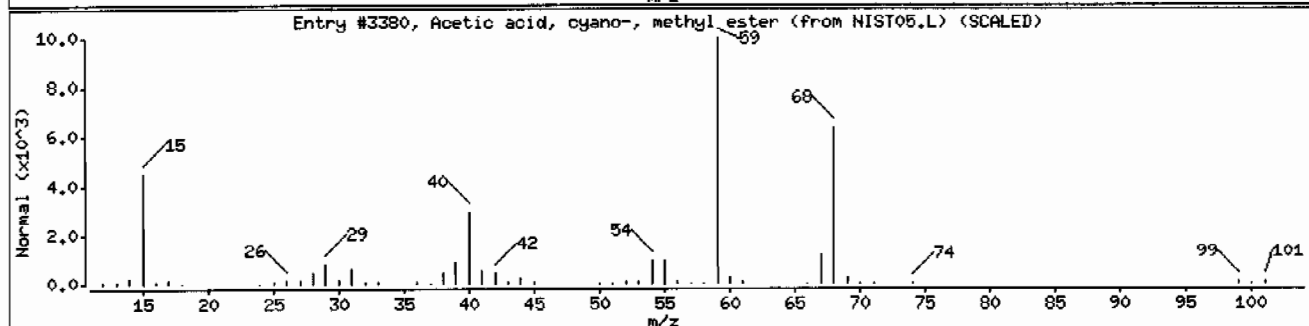
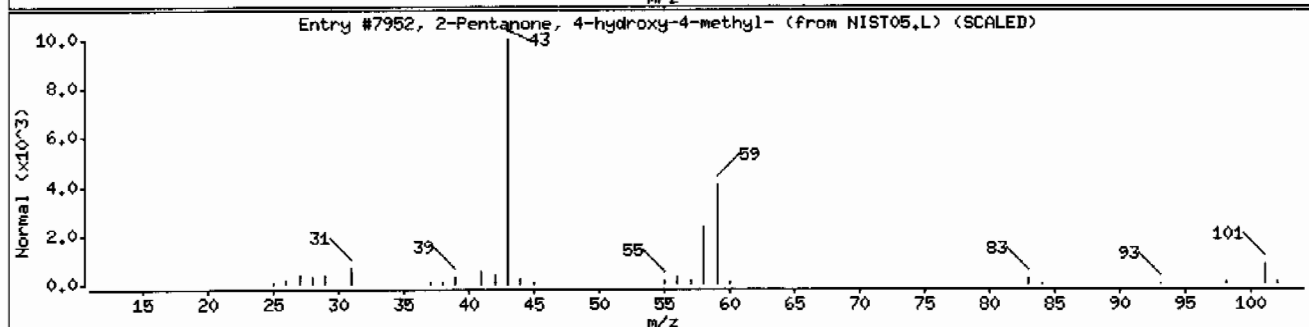
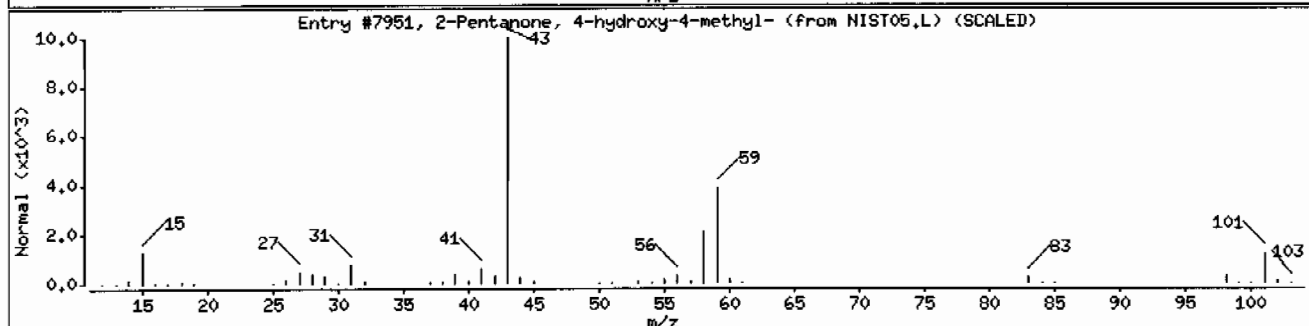
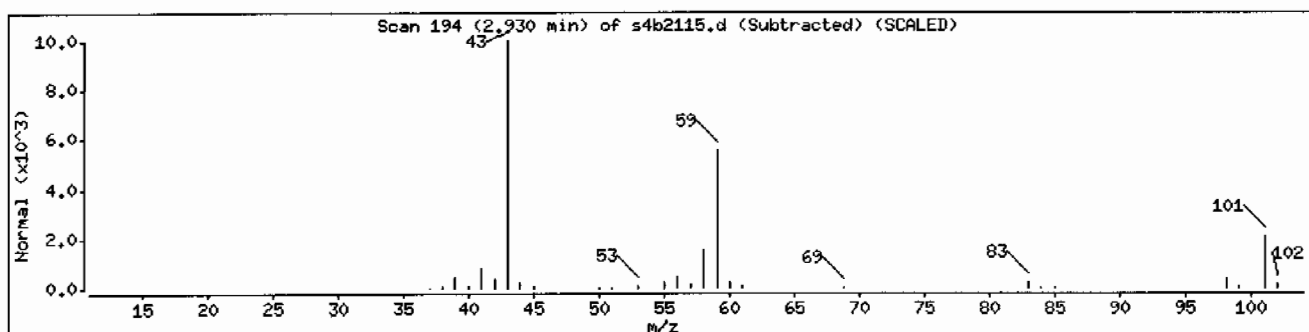
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	39	C6H12O2	116
Acetic acid, cyano-, methyl ester	105-34-0	NIST05.L	3380	9	C4H6NO2	99



Date : 21-FEB-2010 15:02

Client ID: RE15-10-8338

Instrument: MSD4.i

Sample Info: I246434010195198911ISVH11ILANL

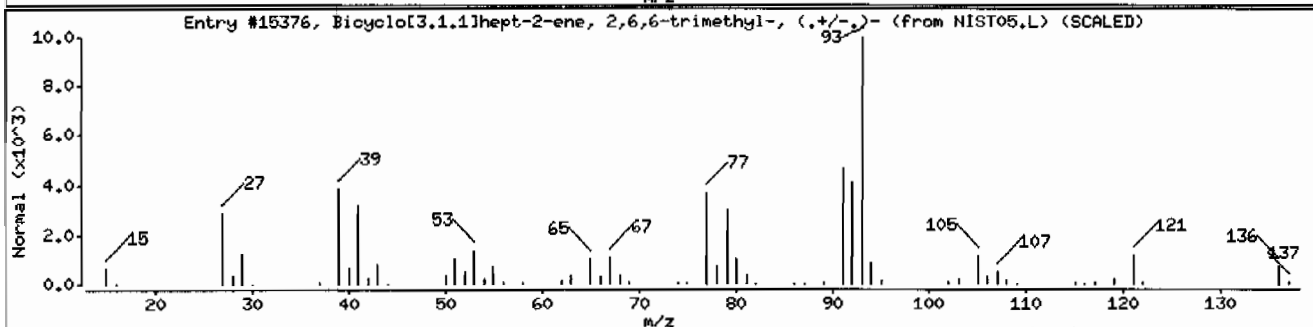
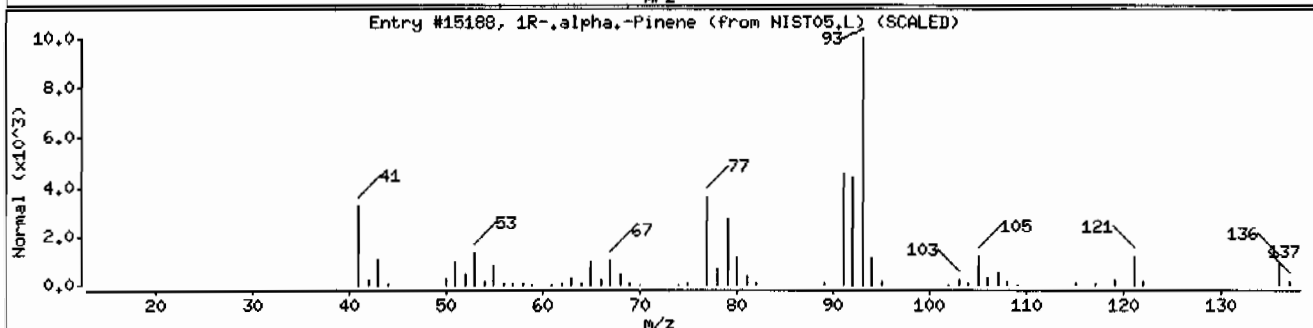
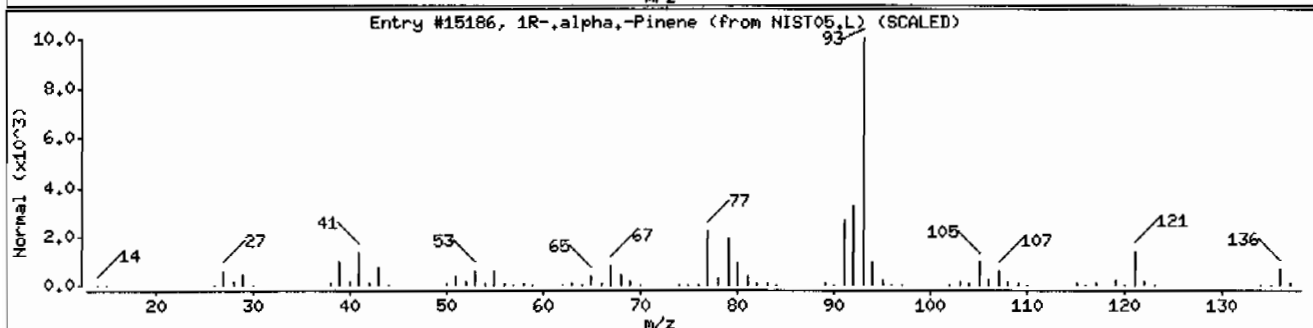
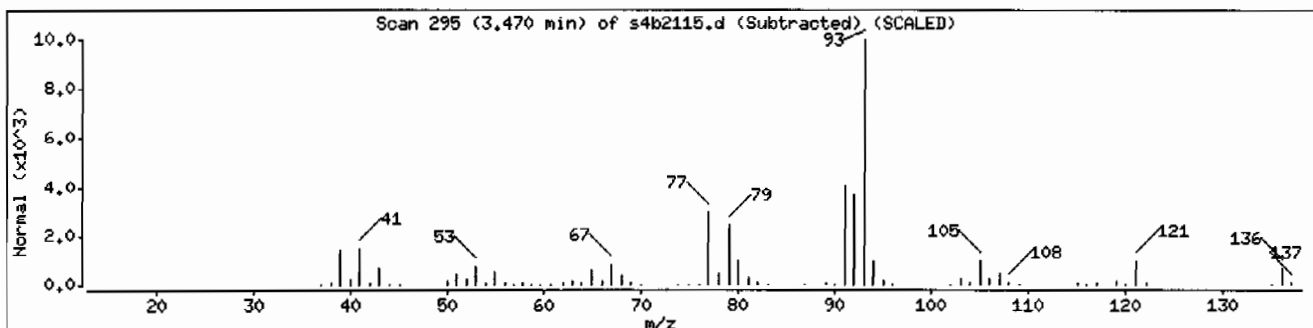
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1R-.alpha.-Pinene	7785-70-8	NIST05.L	15186	95	C10H16	136
1R-.alpha.-Pinene	7785-70-8	NIST05.L	15188	95	C10H16	136
Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl	2437-95-8	NIST05.L	15376	95	C10H16	136



Date : 21-FEB-2010 15:02

Client ID: RE15-10-8338

Instrument: MSD4.i

Sample Info: 1246434010195198911SVH11ILANL

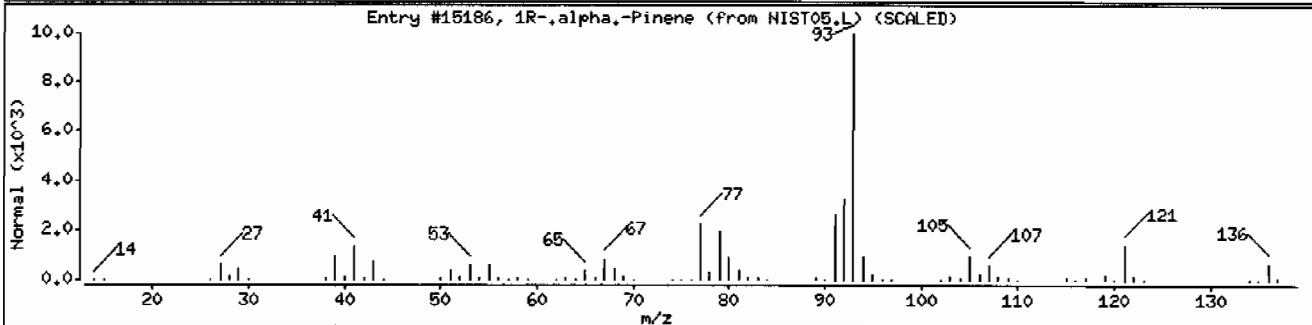
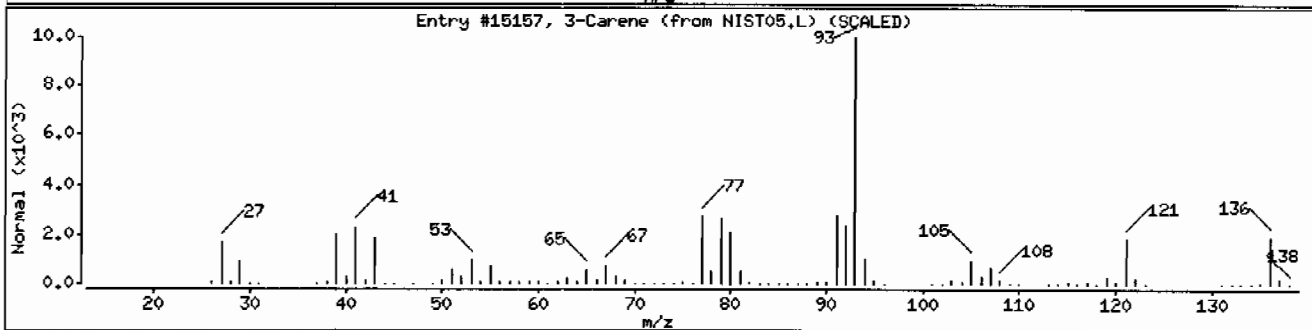
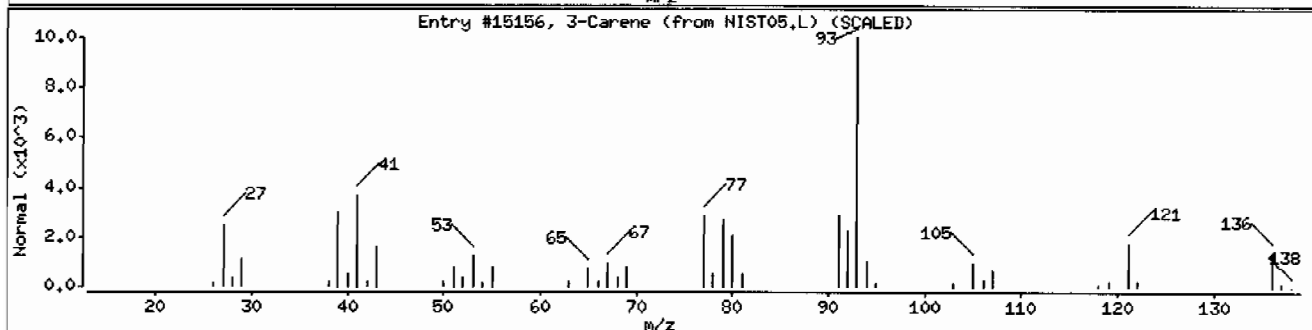
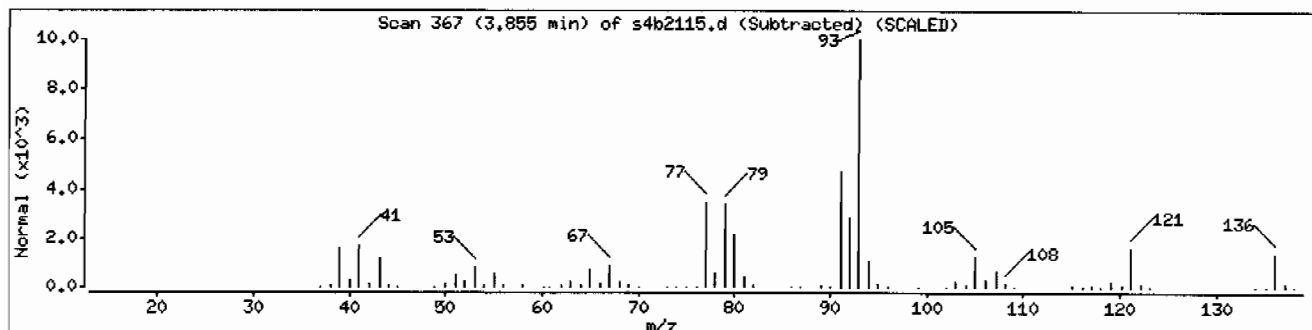
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Carene	13466-78-9	NIST05.L	15156	95	C10H16	136
3-Carene	13466-78-9	NIST05.L	15157	95	C10H16	136
1R-.alpha.-Pinene	7785-70-8	NIST05.L	15186	95	C10H16	136



Date : 21-FEB-2010 15:02

Client ID: RE15-10-8338

Instrument: MSD4.i

Sample Info: 12464340101951989111SVHI11LANL

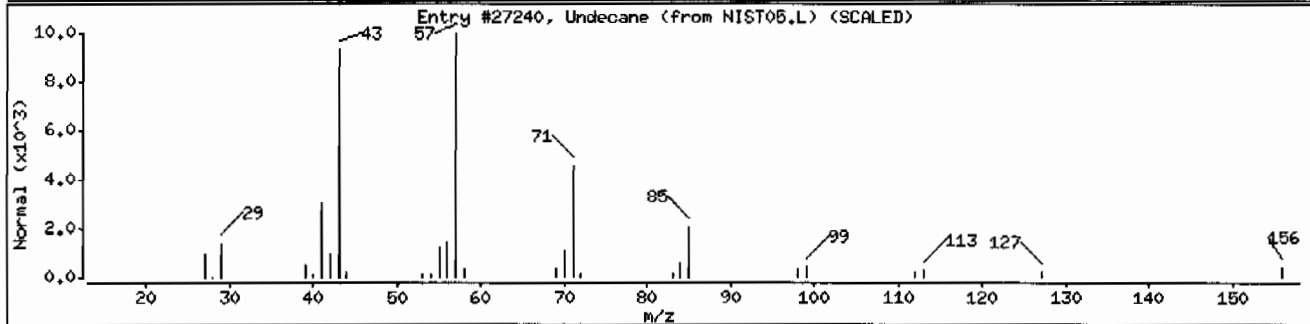
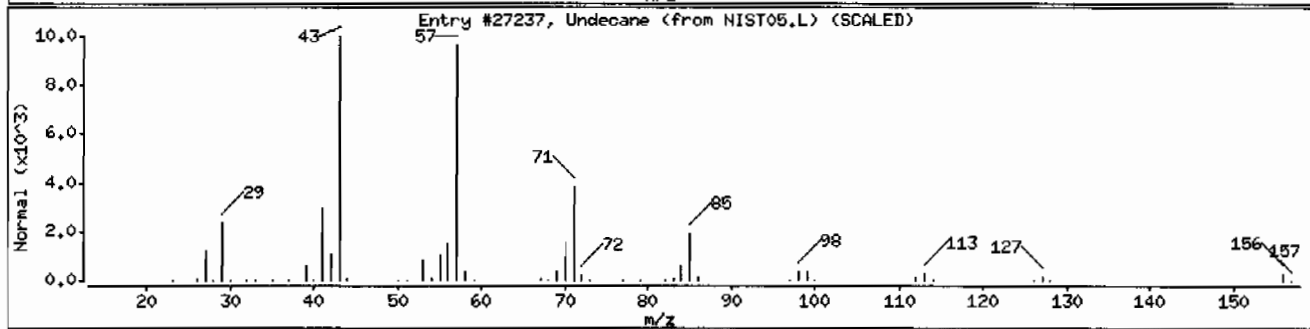
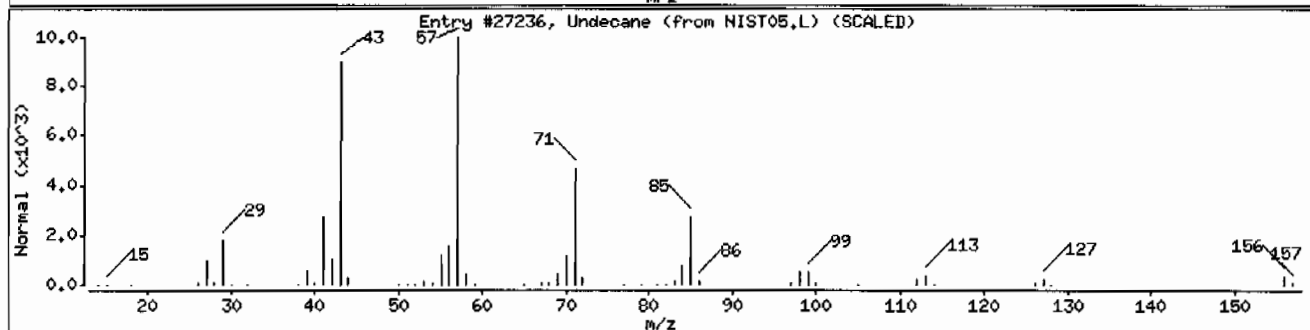
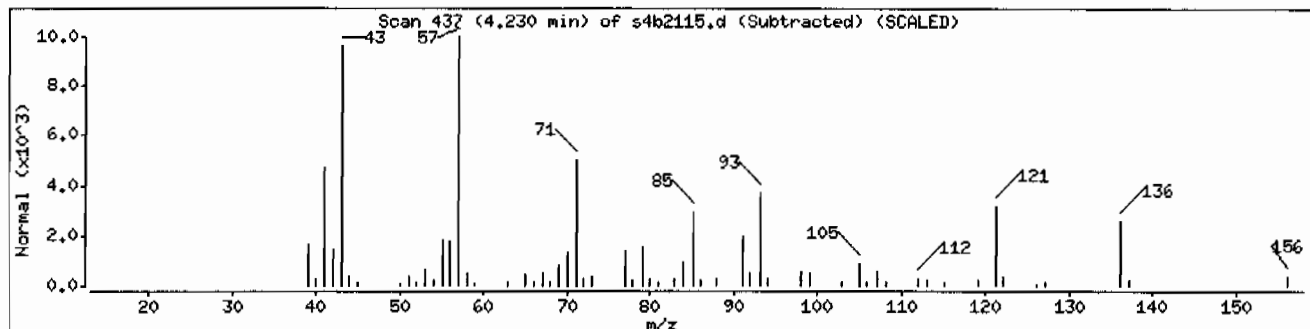
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Undecane	1120-21-4	NIST05.L	27236	64	C ₁₁ H ₂₄	156
Undecane	1120-21-4	NIST05.L	27237	60	C ₁₁ H ₂₄	156
Undecane	1120-21-4	NIST05.L	27240	60	C ₁₁ H ₂₄	156



Date : 21-FEB-2010 15:02

Client ID: RE15-10-8338

Instrument: MSD4.i

Sample Info: 12464340101951989111SVH111LANL

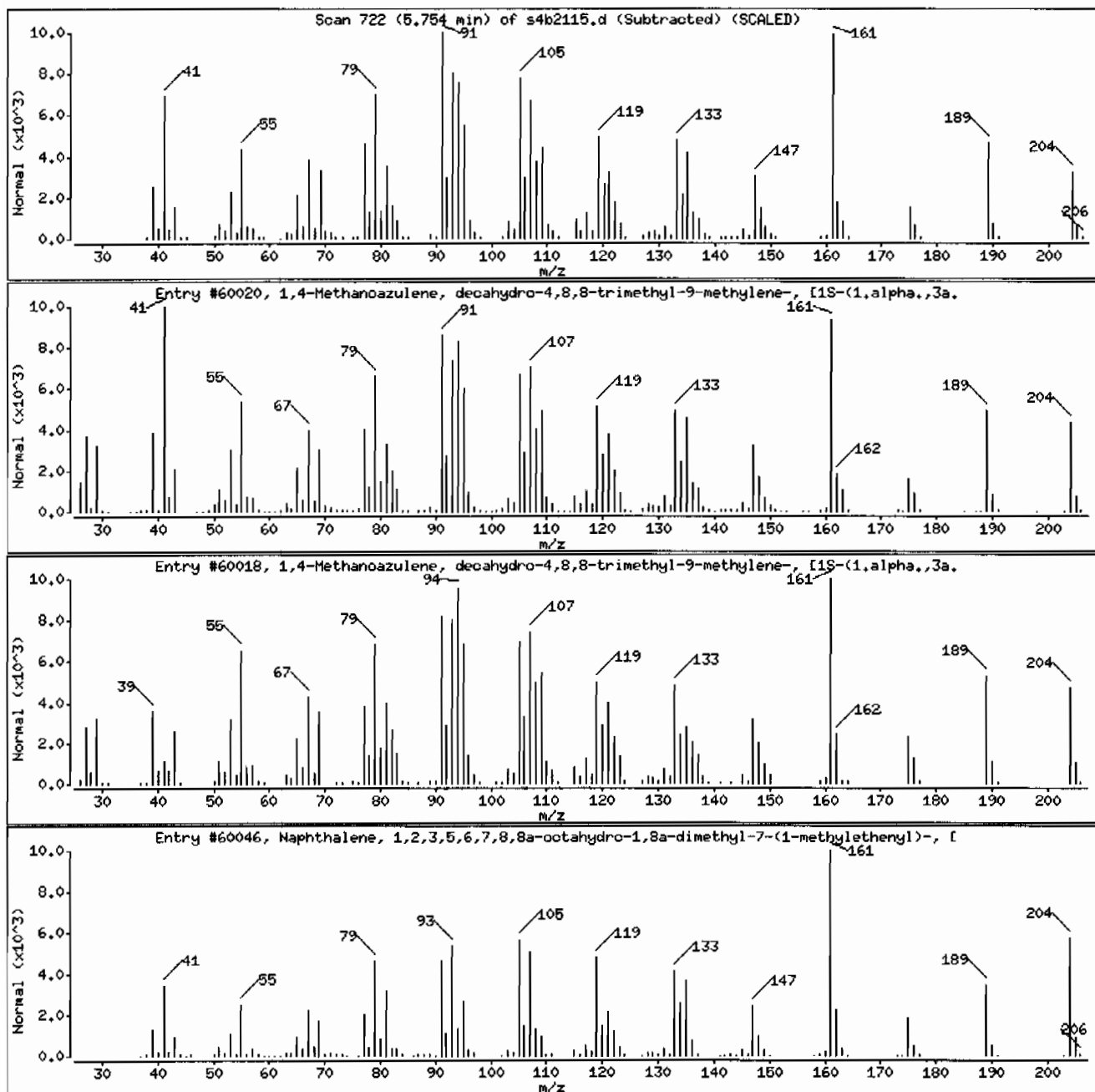
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60020	99	C15H24	204
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60018	98	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60046	97	C15H24	204



Date : 21-FEB-2010 15:02

Client ID: RE15-10-8338

Instrument: MSD4.i

Sample Info: 12464340101951989111SVH111LANL

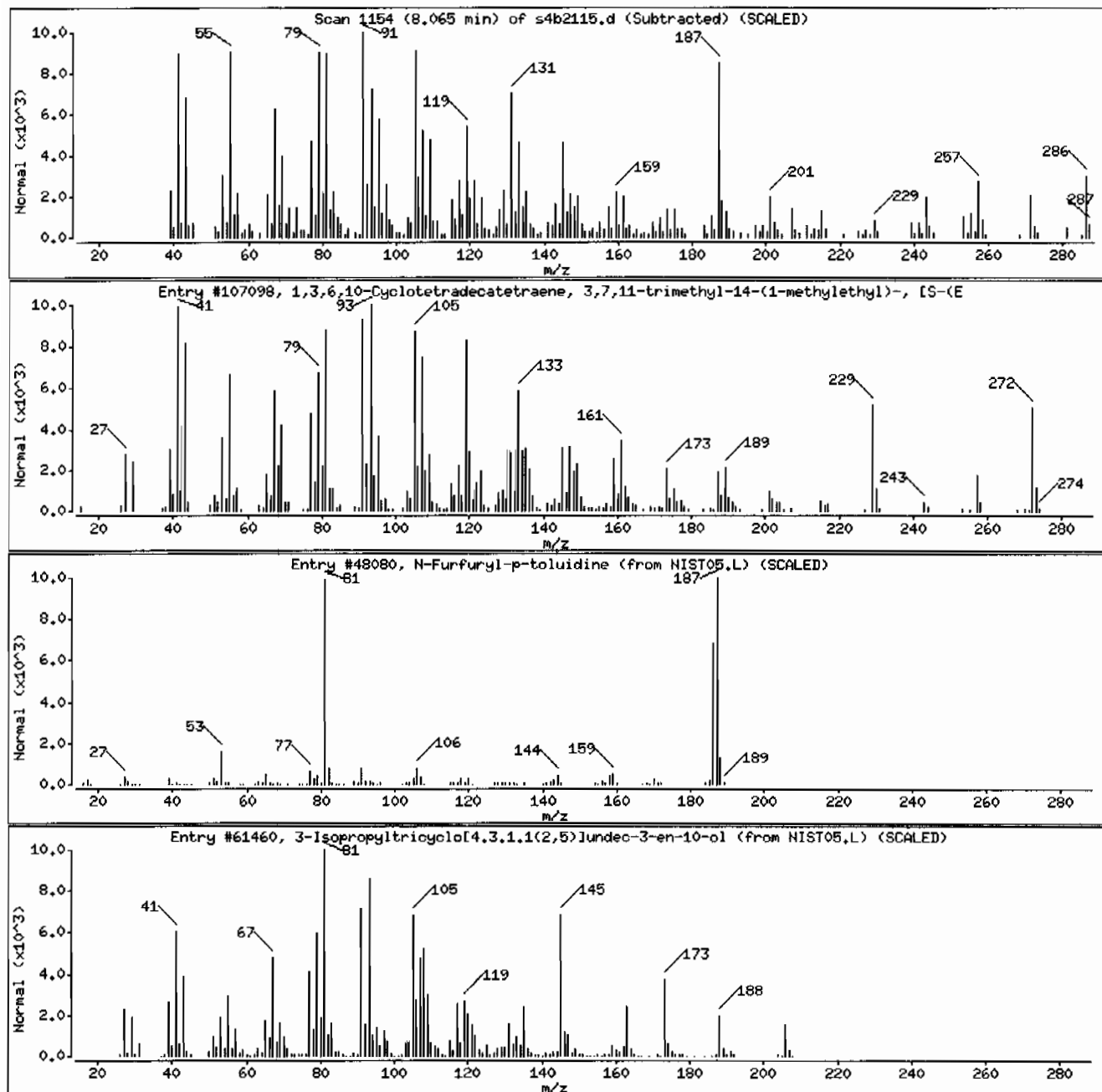
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,3,6,10-Cyclotetradecatetraene, 3,7,11-	1898-13-1	NIST05.L	107098	46	C20H32	272
N-Furfuryl-p-toluidine	3139-27-3	NIST05.L	48080	25	C12H13NO	187
3-Isopropyltricyclo[4.3.1.1(2,5)]undec-3	1000195-22-9	NIST05.L	61460	25	C14H22O	206



Date : 21-FEB-2010 15:02

Client ID: RE15-10-8338

Instrument: MSD4.i

Sample Info: 1246434010195198911SVH111LANL

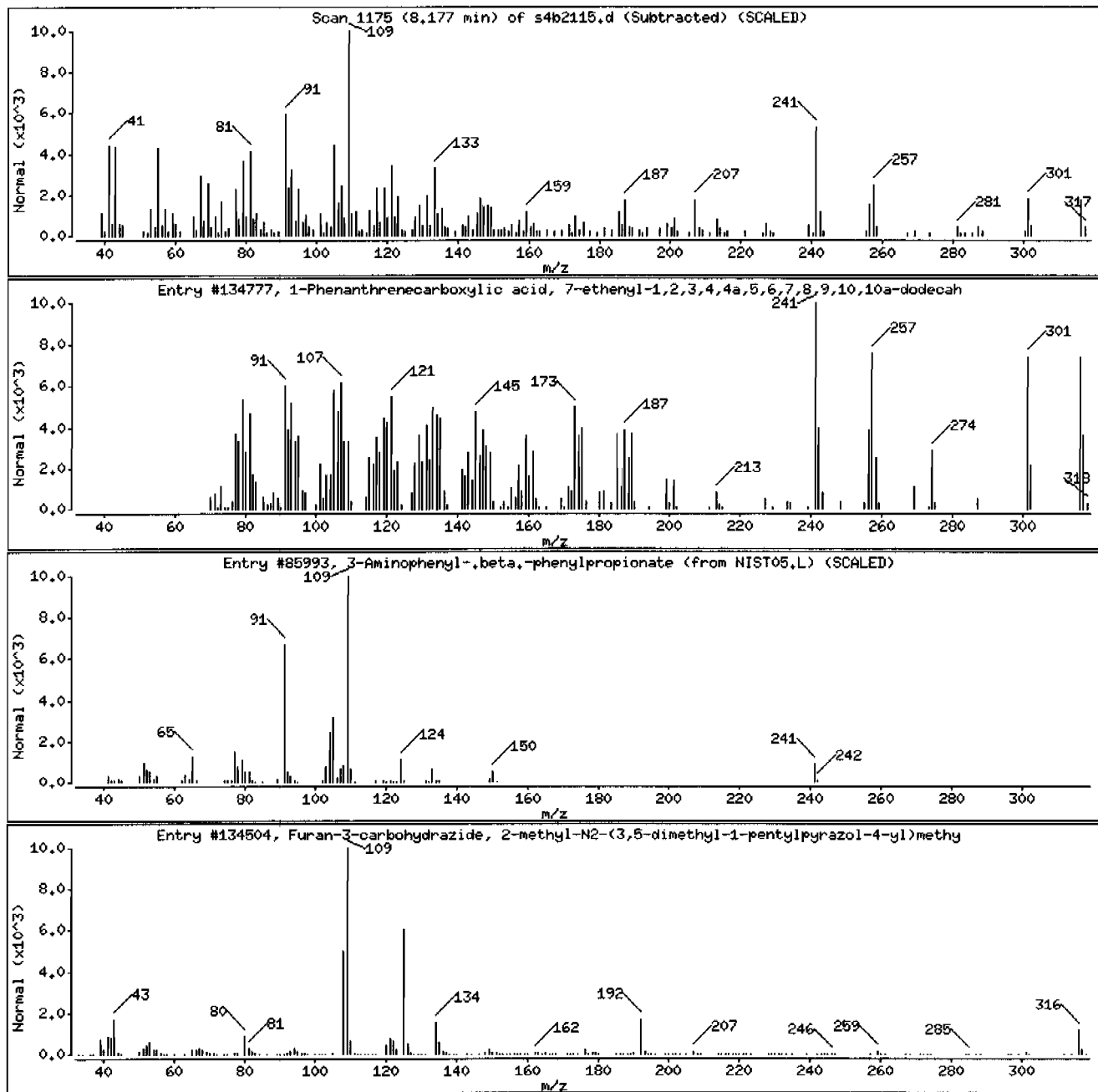
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Phenanthrenecarboxylic acid, 7-ethenyl	19907-21-2	NIST05.L	134777	40	C21H32O2	316
3-Aminophenyl-.beta.-phenylpropionate	1000129-40-1	NIST05.L	85993	38	C15H15NO2	241
Furan-3-carbohydrazide, 2-methyl-N2-(3,5	304906-43-2	NIST05.L	134504	25	C17H24N4O2	316



Date : 21-FEB-2010 15:02

Client ID: RE15-10-8338

Instrument: MSD4.i

Sample Info: 12464340101951989111SVH111LANL

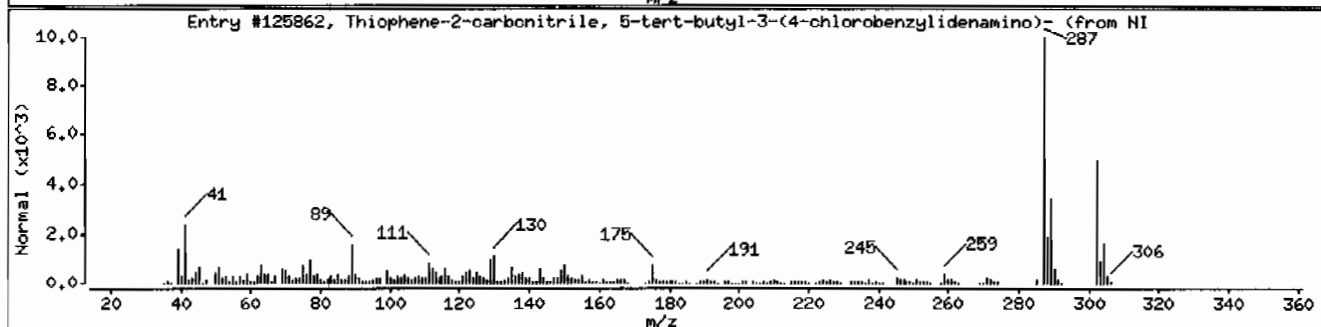
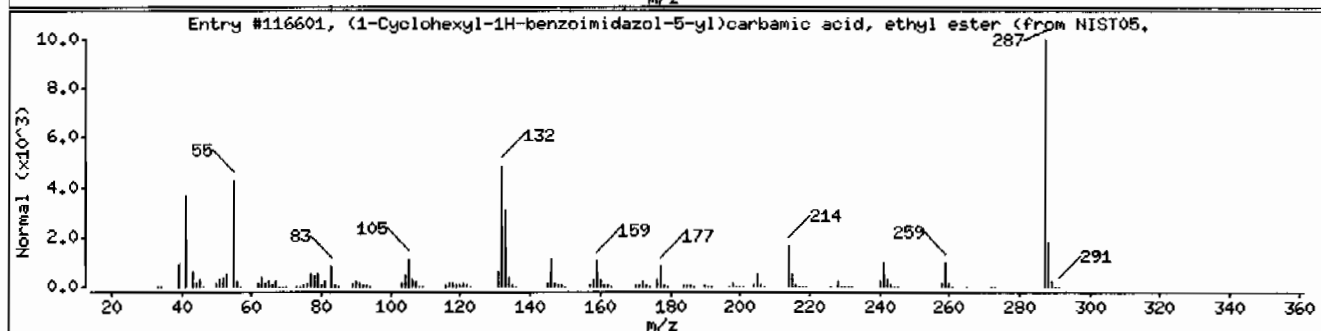
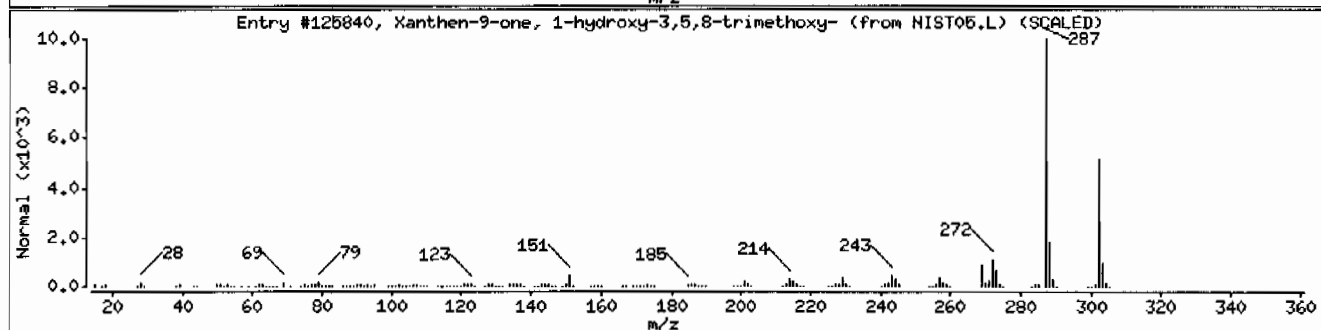
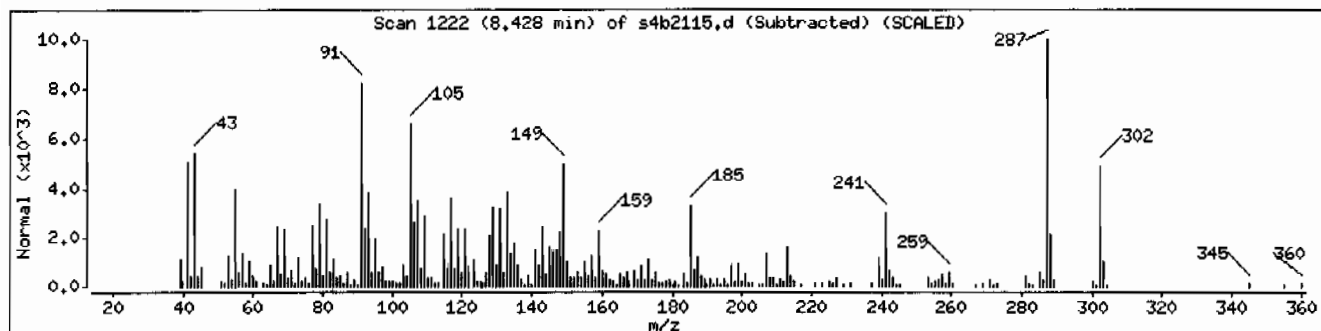
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Xanthen-9-one, 1-hydroxy-3,6,8-trimethoxy	49599-09-9	NIST05.L	125840	60	C16H14O6	302
(1-Cyclohexyl-1H-benzimidazol-5-yl)carb	1000310-00-5	NIST05.L	116601	50	C16H21N3O2	287
Thiophene-2-carbonitrile, 5-tert-butyl-3	1000268-00-9	NIST05.L	125862	46	C16H15CN2S	302



Date : 21-FEB-2010 15:02

Client ID: RE15-10-8338

Instrument: MSD4.i

Sample Info: 1246434010195198911ISVM111LANL

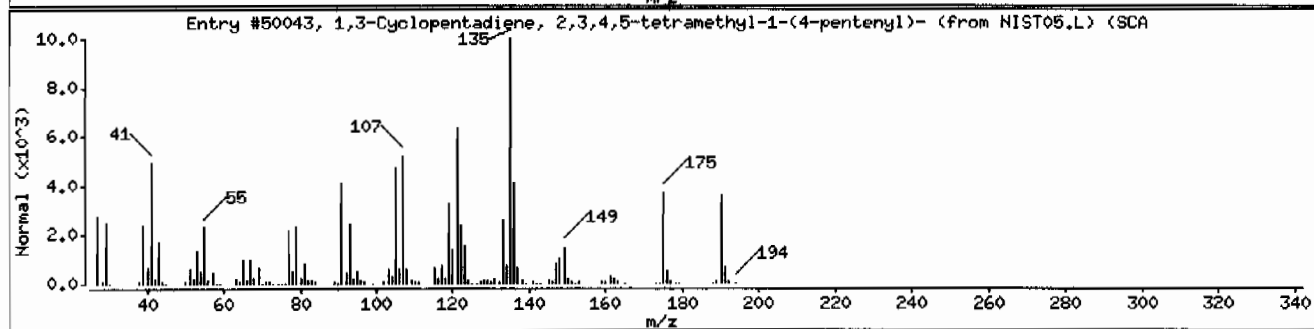
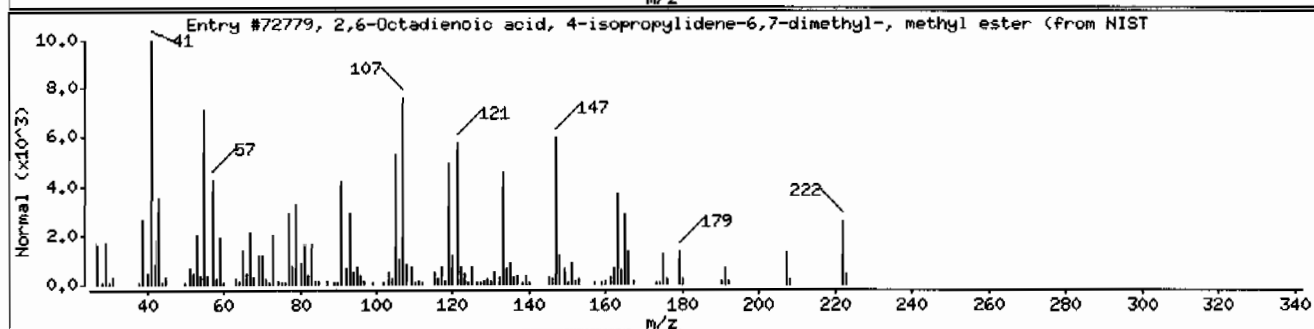
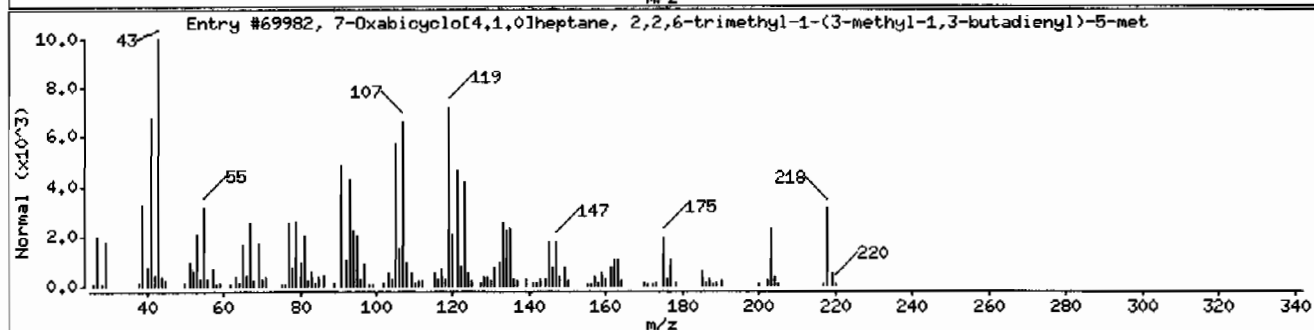
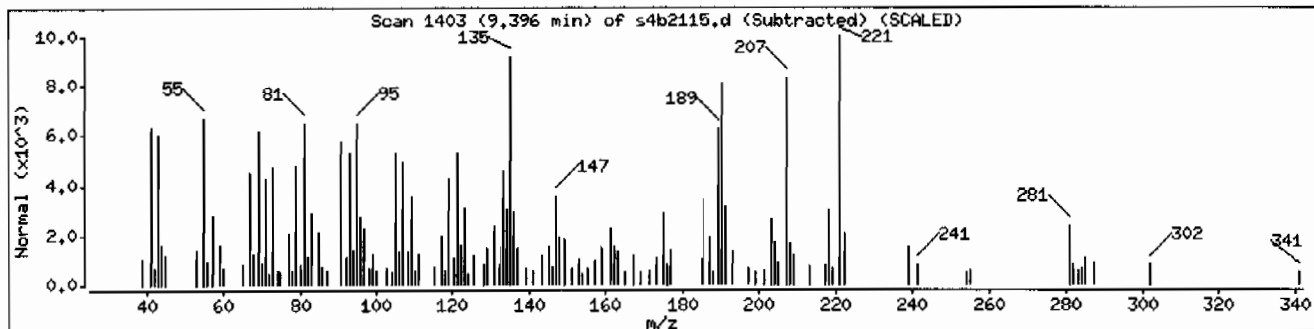
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
7-Oxabicyclo[4.1.0]heptane, 2,2,6-trimet	70038-20-9	NIST05.L	69982	25	C15H22O	218
2,6-Octadienoic acid, 4-isopropylidene-6	1000151-99-3	NIST05.L	72779	25	C14H22O2	222
1,3-Cyclopentadiene, 2,3,4,5-tetramethyl	1000161-28-7	NIST05.L	50043	14	C14H22	190



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434012	Date Received: 02/06/2010 09:15	%Moisture: 6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8339	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 15:48	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.1 g	Final Volume: 1 mL
Data File: s4b2117.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	353	ug/kg	70.7	353
108-95-2	Phenol	U	353	ug/kg	70.7	353
95-57-8	2-Chlorophenol	U	353	ug/kg	70.7	353
106-46-7	1,4-Dichlorobenzene	U	353	ug/kg	70.7	353
621-64-7	N-Nitrosodipropylamine	U	353	ug/kg	70.7	353
59-50-7	4-Chloro-3-methylphenol	U	353	ug/kg	70.7	353
83-32-9	Acenaphthene	U	35.3	ug/kg	11.7	35.3
121-14-2	2,4-Dinitrotoluene	U	353	ug/kg	35.3	353
100-02-7	4-Nitrophenol	U	353	ug/kg	117	353
87-86-5	Pentachlorophenol	U	353	ug/kg	88.3	353
129-00-0	Pyrene	U	35.3	ug/kg	10.6	35.3
110-86-1	Pyridine	U	353	ug/kg	70.7	353
62-53-3	Aniline	U	353	ug/kg	106	353
111-44-4	bis(2-Chloroethyl) ether	U	353	ug/kg	70.7	353
541-73-1	1,3-Dichlorobenzene	U	353	ug/kg	70.7	353
100-51-6	Benzyl alcohol	U	353	ug/kg	106	353
95-50-1	1,2-Dichlorobenzene	U	353	ug/kg	70.7	353
108-60-1	bis(2-Chloroisopropyl)ether	U	353	ug/kg	70.7	353
95-48-7	o-Cresol	U	353	ug/kg	70.7	353
65794-96-9	m,p-Cresols	U	353	ug/kg	106	353
67-72-1	Hexachloroethane	U	353	ug/kg	70.7	353
98-95-3	Nitrobenzene	U	353	ug/kg	70.7	353
78-59-1	Isophorone	U	353	ug/kg	70.7	353
88-75-5	2-Nitrophenol	U	353	ug/kg	70.7	353
105-67-9	2,4-Dimethylphenol	U	353	ug/kg	124	353
111-91-1	bis(2-Chloroethoxy)methane	U	353	ug/kg	70.7	353
120-83-2	2,4-Dichlorophenol	U	353	ug/kg	70.7	353
65-85-0	Benzoic acid	U	707	ug/kg	177	707
91-20-3	Naphthalene	U	35.3	ug/kg	10.6	35.3
106-47-8	4-Chloroaniline	U	353	ug/kg	70.7	353
87-68-3	Hexachlorobutadiene	U	353	ug/kg	70.7	353
91-57-6	2-Methylnaphthalene	U	35.3	ug/kg	7.07	35.3
77-47-4	Hexachlorocyclopentadiene	U	353	ug/kg	70.7	353
88-06-2	2,4,6-Trichlorophenol	U	353	ug/kg	70.7	353
95-95-4	2,4,5-Trichlorophenol	U	353	ug/kg	70.7	353
91-58-7	2-Chloronaphthalene	U	35.3	ug/kg	11.7	35.3
88-74-4	2-Nitroaniline	U	353	ug/kg	70.7	353
	o-Nitroaniline					
99-09-2	3-Nitroaniline	U	353	ug/kg	70.7	353

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434012

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.1 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	353	ug/kg	70.7	353
606-20-2	2,6-Dinitrotoluene	U	353	ug/kg	35.3	353
208-96-8	Acenaphthylene	U	35.3	ug/kg	10.6	35.3
51-28-5	2,4-Dinitrophenol	U	707	ug/kg	134	707
132-64-9	Dibenzofuran	U	353	ug/kg	70.7	353
84-66-2	Diethylphthalate	U	353	ug/kg	70.7	353
86-73-7	Fluorene	U	35.3	ug/kg	10.6	35.3
7005-72-3	4-Chlorophenylphenylether	U	353	ug/kg	70.7	353
534-52-1	2-Methyl-4,6-dinitrophenol	U	353	ug/kg	70.7	353
100-01-6	4-Nitroaniline	U	353	ug/kg	106	353
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	353	ug/kg	70.7	353
122-66-7	Azobenzene	U	353	ug/kg	70.7	353
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	353	ug/kg	70.7	353
118-74-1	Hexachlorobenzene	U	353	ug/kg	70.7	353
85-01-8	Phenanthrene	U	35.3	ug/kg	10.6	35.3
120-12-7	Anthracene	U	35.3	ug/kg	7.07	35.3
84-74-2	Di-n-butylphthalate	U	353	ug/kg	70.7	353
206-44-0	Fluoranthene	U	35.3	ug/kg	10.6	35.3
85-68-7	Butylbenzylphthalate	U	353	ug/kg	70.7	353
56-55-3	Benzo(a)anthracene	U	35.3	ug/kg	10.6	35.3
91-94-1	3,3'-Dichlorobenzidine	U	353	ug/kg	106	353
218-01-9	Chrysene	U	35.3	ug/kg	10.6	35.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	353	ug/kg	70.7	353
117-84-0	Di-n-octylphthalate	U	353	ug/kg	70.7	353
205-99-2	Benzo(b)fluoranthene	U	35.3	ug/kg	10.6	35.3
207-08-9	Benzo(k)fluoranthene	U	35.3	ug/kg	10.6	35.3
50-32-8	Benzo(a)pyrene	U	35.3	ug/kg	10.6	35.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.3	ug/kg	10.6	35.3
53-70-3	Dibenzo(a,h)anthracene	U	35.3	ug/kg	10.6	35.3
191-24-2	Benzo(ghi)perylene	U	35.3	ug/kg	10.6	35.3
120-82-1	1,2,4-Trichlorobenzene	U	353	ug/kg	70.7	353

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.04	466	ug/kg		J
	Unknown Aldol Condensate	2.93	459	ug/kg		J

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Data file : /chem/MSD4.i/s022110a.b/s4b2117.d
 Lab Smp Id: 246434012 Client Smp ID: RE15-10-8339
 Inj Date : 21-FEB-2010 15:48
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |246434012|951989|1|SVM|1|LANL
 Misc Info : |MSD8270_S|WBN100205-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
 Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
 Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
 Als bottle: 13
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1620.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.10000	weight of sample
M	5.98190	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152		3.898	3.903	(1.000)		131199	40.0000	
* 29 Naphthalene-d8	136		4.770	4.770	(1.000)		495385	40.0000	
* 46 Acenaphthene-d10	164		6.021	6.027	(1.000)		281058	40.0000	
* 67 Phenanthrene-d10	188		7.011	7.016	(1.000)		463215	40.0000	
* 91 Chrysene-d12	240		8.696	8.717	(1.000)		423895	40.0000	
* 98 Perylene-d12	264		10.215	10.236	(1.000)		348154	40.0000	
\$ 3 2-Fluorophenol	112		3.096	3.090	(0.794)		245954	65.7897	2320
\$ 5 Phenol-d5	99		3.614	3.614	(0.927)		319911	68.1151	2410
\$ 20 Nitrobenzene-d5	82		4.262	4.267	(0.893)		140964	37.0551	1310
\$ 39 2-Fluorobiphenyl	172		5.513	5.513	(0.916)		234064	32.2535	1140
\$ 60 2,4,6-Tribromophenol	329		6.556	6.561	(1.089)		77024	87.6280	3100
\$ 81 p-Terphenyl-d14	244		7.931	7.941	(0.912)		272337	41.0988	1450

ION RATIO REPORT

SV REPORT

Data file: s4b2117.d

Report Date: 02/22/2010 07:42

Lab. ID: 246434012

SampleType: SAMPLE

Injection Date: 21-FEB-2010 15:48

Operator: JMB3

Instrument: MSD4.i

Sample Info: |246434012|951989|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01|

Comment:

Method used: /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1620

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4 Aniline		CAS#: 62-53-3				
66	13669	3.61	3.69	80-120	100	(T)
93	306	3.67	3.69	455-515	2	(Q)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	18275	4.26	4.14	80-120	100	(T)
42	8932	4.26	4.14	24- 84	49	(T)

27 Benzoic acid		CAS#: 65-85-0				
105	615	4.51	4.55	80-120	100	()
122	428	4.51	4.55	40-100	70	()
77	564	4.51	4.55	39- 99	92	()

43 Dimethylphthalate		CAS#: 131-11-3				
163	49074	6.02	5.79	80-120	100	(T)
164	281058	6.02	5.79	0- 40	573	(QT)

44 2,6-Dinitrotoluene		CAS#: 606-20-2				
165	36271	6.02	5.85	80-120	100	(T)
63	320	6.02	5.85	49-109	1	(QT)

50 2,4-Dinitrotoluene		CAS#: 121-14-2				
165	36271	6.02	6.13	80-120	100	(T)
89	407	6.02	6.13	52-112	1	(QT)
63	320	6.02	6.13	19- 79	1	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
53 Fluorene		CAS#: 86-73-7				
166	3169	6.56	6.40	80-120	100	(T)
165	3274	6.56	6.40	59-119	103	(T)
167	936	6.56	6.40	0- 44	30	(T)

61 4-Bromophenylphenylether		CAS#: 101-55-3				
248	4300	6.56	6.71	80-120	100	(T)
141	24646	6.56	6.71	41-101	573	(QT)
250	7946	6.56	6.71	66-126	185	(QT)

72 Di-n-butylphthalate		CAS#: 84-74-2				
149	26800	7.06	7.30	80-120	100	(T)
150	2468	7.06	7.30	0- 39	9	(T)
104	1972	7.06	7.30	0- 35	7	(T)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/MSD4.i/s022110a.b/s4b2117.d
Report Date: 22-Feb-2010 08:16

Page 1

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Data file : /chem/MSD4.i/s022110a.b/s4b2117.d
Lab Smp Id: 246434012 Client Smp ID: RE15-10-8339
Inj Date : 21-FEB-2010 15:48
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |246434012|951989|1|SVM|1|LANL
Misc Info : |MSD8270 S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1620.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf *Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.10000	weight of sample
M	5.98190	% moisture

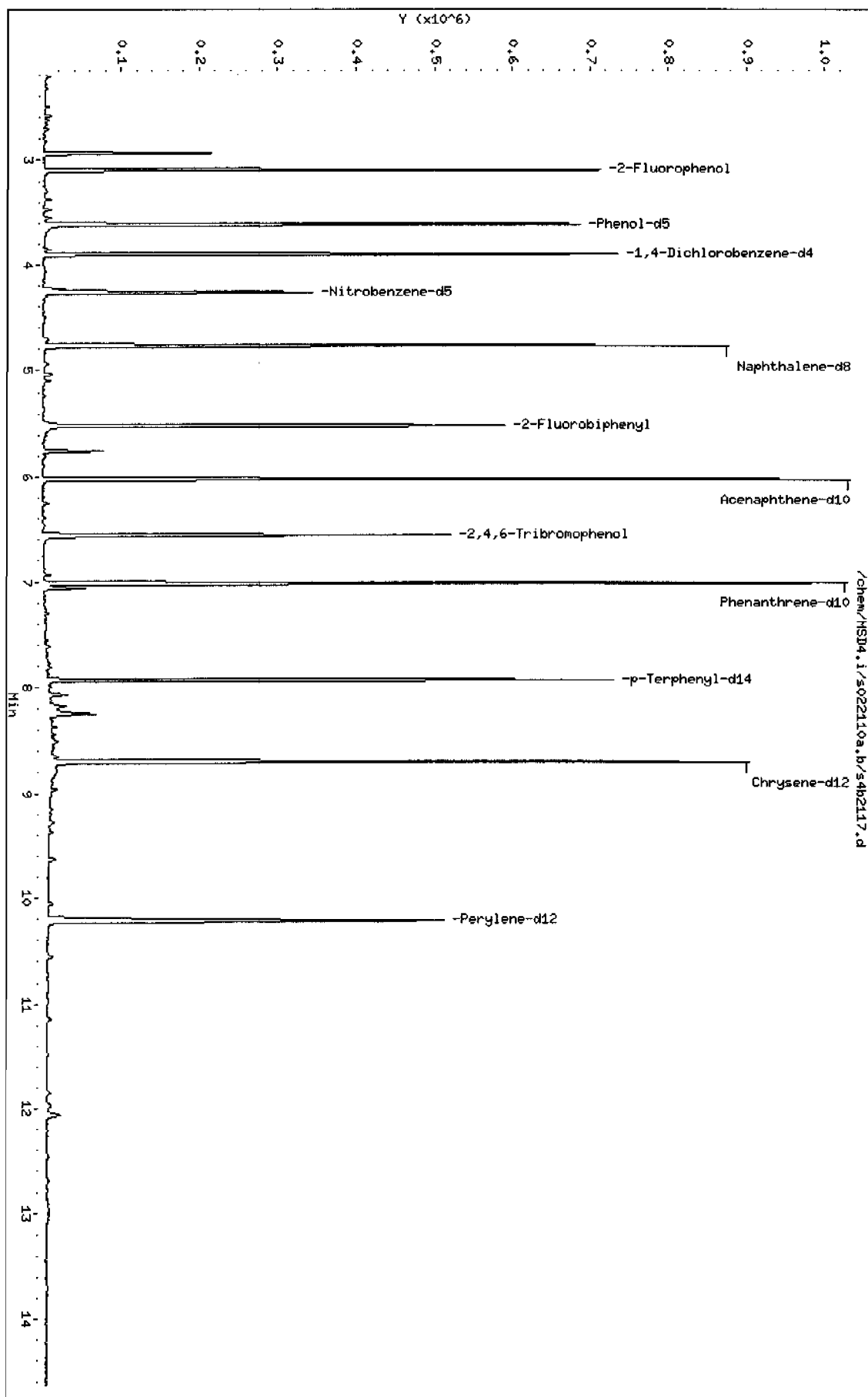
Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.898	799657	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown					CAS #:		
2.042	263890	13.2001703	466	0		0	10
Unknown Aldol Condensate					CAS #:		
2.930	259784	12.9947843	459	0		0	10

Data File: /chem/HSD4.i/s022110a.b/s4b2117.d
Date: 21-FEB-2010 15:48
Client ID: REL5-10-8339
Sample Info: 124634012195199111SVMI11LANL
Volume Injected (uL): 0.5
Column phase: J&M DB-5MS

Instrument: HSD4.i
Operator: JHB3
Column diameter: 0.20



Date : 21-FEB-2010 15:48

Client ID: RE15-10-8339

Instrument: MSD4.i

Sample Info: I2464340121951989111SVH111LANL

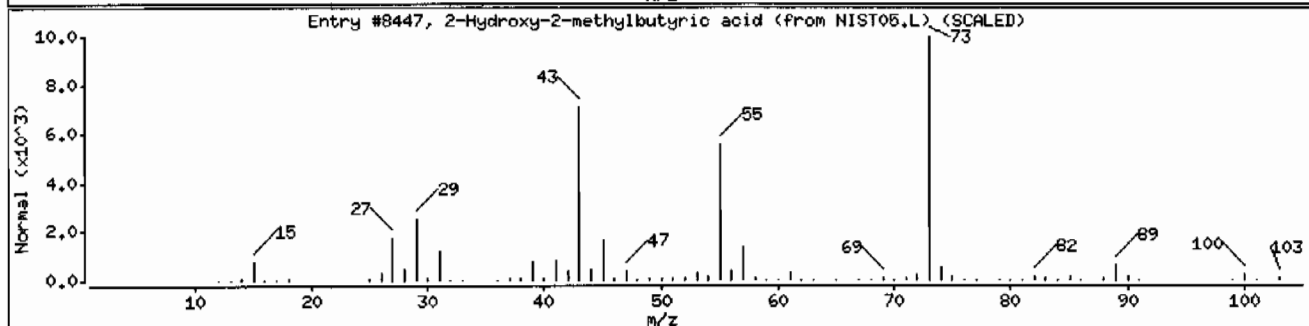
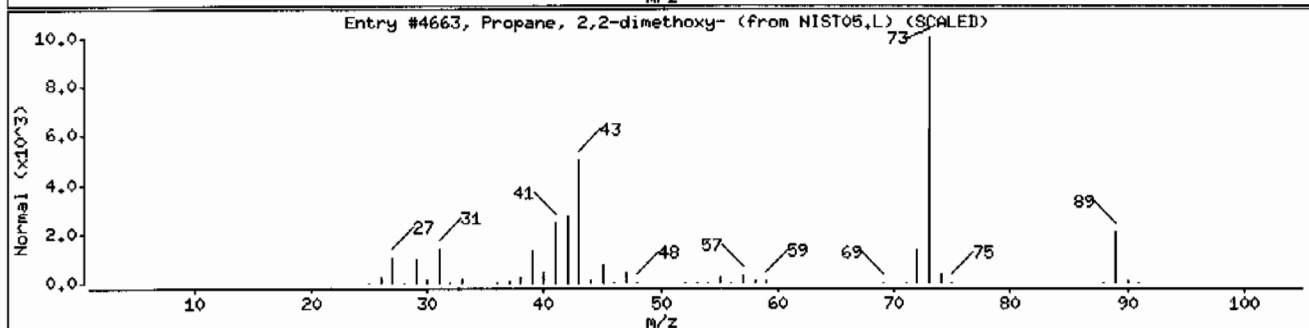
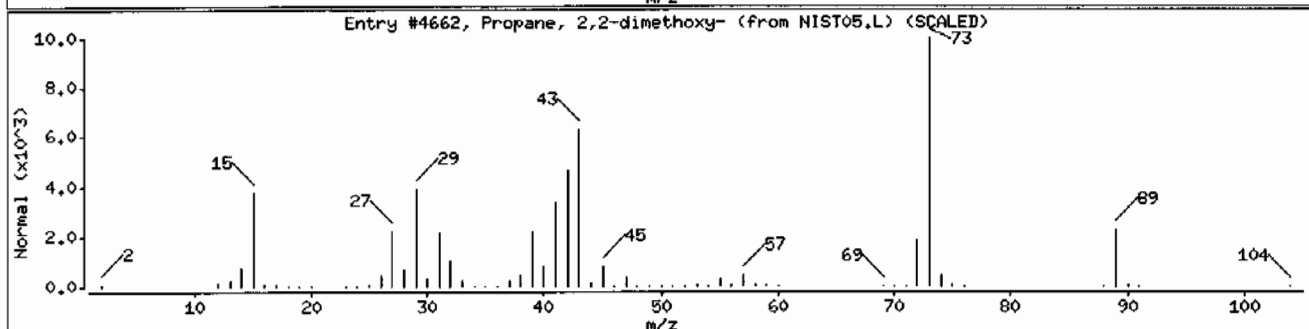
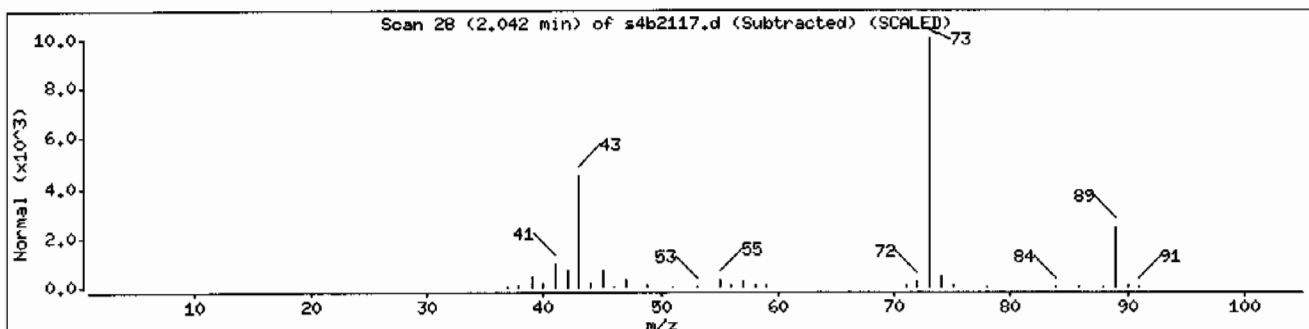
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4662	9	C5H12O2	104
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4663	9	C5H12O2	104
2-Hydroxy-2-methylbutyric acid	3739-30-8	NIST05.L	8447	9	C5H10O3	118



Date : 21-FEB-2010 15:48

Client ID: RE15-10-8339

Instrument: MSD4.i

Sample Info: I2464340121951989111SVH111LANL

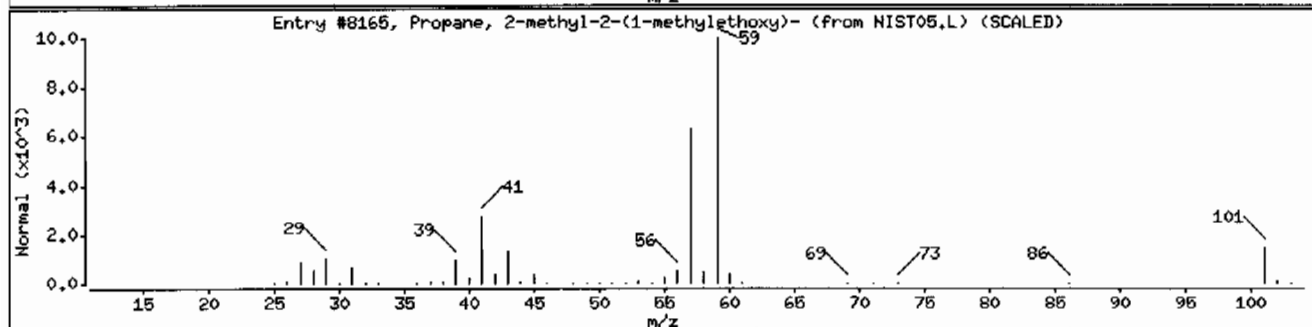
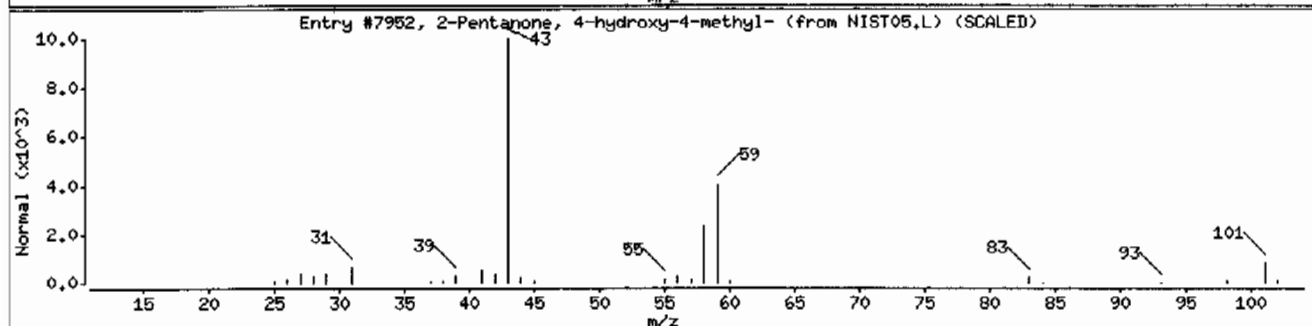
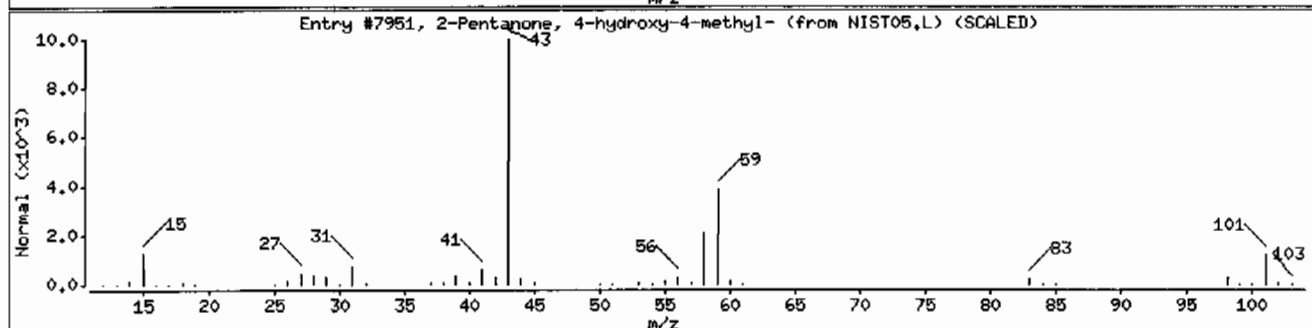
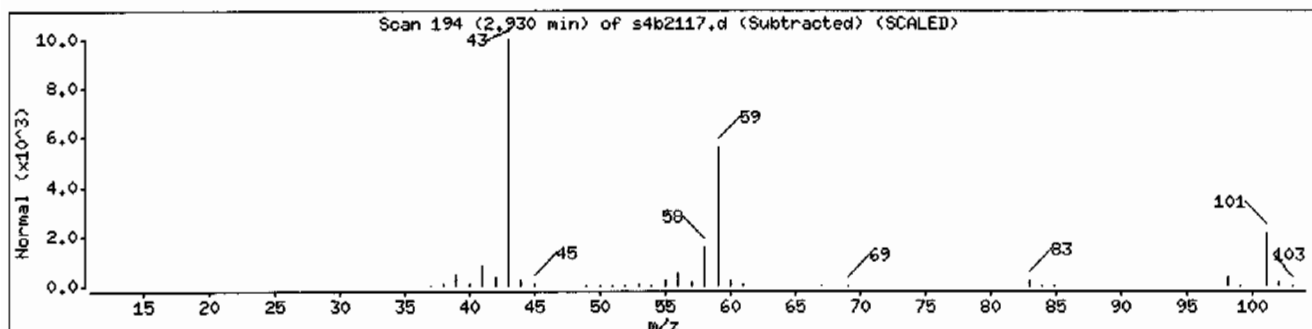
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	64	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	39	C6H12O2	116
Propane, 2-methyl-2-(1-methylethoxy)-	17348-59-3	NIST05.L	8165	28	C7H16O	116



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434008

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL.010
Method: SW846 8270C
Inst: MSD4.1
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 23.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8350
Batch ID: 951989
Run Date: 02/21/2010 14:17
Prep Date: 02/11/2010 22:25
Data File: s4b2113.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	433	ug/kg	86.6	433
108-95-2	Phenol	U	433	ug/kg	86.6	433
95-57-8	2-Chlorophenol	U	433	ug/kg	86.6	433
106-46-7	1,4-Dichlorobenzene	U	433	ug/kg	86.6	433
621-64-7	N-Nitrosodipropylamine	U	433	ug/kg	86.6	433
59-50-7	4-Chloro-3-methylphenol	U	433	ug/kg	86.6	433
83-32-9	Acenaphthene	U	43.3	ug/kg	14.3	43.3
121-14-2	2,4-Dinitrotoluene	U	433	ug/kg	43.3	433
100-02-7	4-Nitrophenol	U	433	ug/kg	143	433
87-86-5	Pentachlorophenol	U	433	ug/kg	108	433
129-00-0	Pyrene	U	43.3	ug/kg	13.0	43.3
110-86-1	Pyridine	U	433	ug/kg	86.6	433
62-53-3	Aniline	U	433	ug/kg	130	433
111-44-4	bis(2-Chloroethyl) ether	U	433	ug/kg	86.6	433
541-73-1	1,3-Dichlorobenzene	U	433	ug/kg	86.6	433
100-51-6	Benzyl alcohol	U	433	ug/kg	130	433
95-50-1	1,2-Dichlorobenzene	U	433	ug/kg	86.6	433
108-60-1	bis(2-Chloroisopropyl)ether	U	433	ug/kg	86.6	433
95-48-7	o-Cresol	U	433	ug/kg	86.6	433
65794-96-9	m,p-Cresols	U	433	ug/kg	130	433
67-72-1	Hexachloroethane	U	433	ug/kg	86.6	433
98-95-3	Nitrobenzene	U	433	ug/kg	86.6	433
78-59-1	Isophorone	U	433	ug/kg	86.6	433
88-75-5	2-Nitrophenol	U	433	ug/kg	86.6	433
105-67-9	2,4-Dimethylphenol	U	433	ug/kg	152	433
111-91-1	bis(2-Chloroethoxy)methane	U	433	ug/kg	86.6	433
120-83-2	2,4-Dichlorophenol	U	433	ug/kg	86.6	433
65-85-0	Benzoic acid	U	866	ug/kg	216	866
91-20-3	Naphthalene	U	43.3	ug/kg	13.0	43.3
106-47-8	4-Chloroaniline	U	433	ug/kg	86.6	433
87-68-3	Hexachlorobutadiene	U	433	ug/kg	86.6	433
91-57-6	2-Methylnaphthalene	U	43.3	ug/kg	8.66	43.3
77-47-4	Hexachlorocyclopentadiene	U	433	ug/kg	86.6	433
88-06-2	2,4,6-Trichlorophenol	U	433	ug/kg	86.6	433
95-95-4	2,4,5-Trichlorophenol	U	433	ug/kg	86.6	433
91-58-7	2-Chloronaphthalene	U	43.3	ug/kg	14.3	43.3
88-74-4	2-Nitroaniline	U	433	ug/kg	86.6	433
99-09-2	<i>o</i> -Nitroaniline					
	3-Nitroaniline	U	433	ug/kg	86.6	433

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434008

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 23.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8350
Batch ID: 951989
Run Date: 02/21/2010 14:17
Prep Date: 02/11/2010 22:25
Data File: s4b2113.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	433	ug/kg	86.6	433
606-20-2	2,6-Dinitrotoluene	U	433	ug/kg	43.3	433
208-96-8	Acenaphthylene	U	43.3	ug/kg	13.0	43.3
51-28-5	2,4-Dinitrophenol	U	866	ug/kg	165	866
132-64-9	Dibenzofuran	U	433	ug/kg	86.6	433
84-66-2	Diethylphthalate	U	433	ug/kg	86.6	433
86-73-7	Fluorene	U	43.3	ug/kg	13.0	43.3
7005-72-3	4-Chlorophenylphenylether	U	433	ug/kg	86.6	433
534-52-1	2-Methyl-4,6-dinitrophenol	U	433	ug/kg	86.6	433
100-01-6	4-Nitroaniline	U	433	ug/kg	130	433
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	433	ug/kg	86.6	433
122-66-7	Azobenzene	U	433	ug/kg	86.6	433
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	433	ug/kg	86.6	433
118-74-1	Hexachlorobenzene	U	433	ug/kg	86.6	433
85-01-8	Phenanthrene	U	43.3	ug/kg	13.0	43.3
120-12-7	Anthracene	U	43.3	ug/kg	8.66	43.3
84-74-2	Di-n-butylphthalate	U	433	ug/kg	86.6	433
206-44-0	Fluoranthene	U	43.3	ug/kg	13.0	43.3
85-68-7	Butylbenzylphthalate	U	433	ug/kg	86.6	433
56-55-3	Benzo(a)anthracene	U	43.3	ug/kg	13.0	43.3
91-94-1	3,3'-Dichlorobenzidine	U	433	ug/kg	130	433
218-01-9	Chrysene	U	43.3	ug/kg	13.0	43.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	433	ug/kg	86.6	433
117-84-0	Di-n-octylphthalate	U	433	ug/kg	86.6	433
205-99-2	Benzo(b)fluoranthene	U	43.3	ug/kg	13.0	43.3
207-08-9	Benzo(k)fluoranthene	U	43.3	ug/kg	13.0	43.3
50-32-8	Benzo(a)pyrene	U	43.3	ug/kg	13.0	43.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	43.3	ug/kg	13.0	43.3
53-70-3	Dibenzo(a,h)anthracene	U	43.3	ug/kg	13.0	43.3
191-24-2	Benzo(ghi)perylene	U	43.3	ug/kg	13.0	43.3
120-82-1	1,2,4-Trichlorobenzene	U	433	ug/kg	86.6	433

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.93	513	ug/kg		J
	Unknown	9.41	205	ug/kg		J

Data File: /chem/MSD4.i/s022110a.b/s4b2113.d
Report Date: 22-Feb-2010 08:13

Page 1

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Data file : /chem/MSD4.i/s022110a.b/s4b2113.d
Lab Smp Id: 246434008 Client Smp ID: RE15-10-8350
Inj Date : 21-FEB-2010 14:17
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |246434008|951989|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1620.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.03000	weight of sample
M	23.08340	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT	SIG					CONCENTRATIONS		
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152		3.898	3.903	(1.000)		129973	40.0000	
* 29 Naphthalene-d8	136		4.764	4.770	(1.000)		500344	40.0000	
* 46 Acenaphthene-d10	164		6.021	6.027	(1.000)		280548	40.0000	
* 67 Phenanthrene-d10	188		7.011	7.016	(1.000)		467812	40.0000	
* 91 Chrysene-d12	240		8.696	8.717	(1.000)		405570	40.0000	
* 98 Perylene-d12	264		10.220	10.236	(1.000)		342543	40.0000	
\$ 3 2-Fluorophenol	112		3.090	3.090	(0.793)		222951	60.1992	2610
\$ 5 Phenol-d5	99		3.609	3.614	(0.926)		287147	61.7158	2670
\$ 20 Nitrobenzene-d5	82		4.262	4.267	(0.894)		122180	31.7990	1380
\$ 39 2-Fluorobiphenyl	172		5.508	5.513	(0.915)		196084	27.0690	1170
\$ 60 2,4,6-Tribromophenol	329		6.556	6.561	(1.089)		61355	69.9287	3030
\$ 81 p-Terphenyl-d14	244		7.936	7.941	(0.913)		225284	35.5341	1540

ION RATIO REPORT

SV REPORT

Data file: s4b2113.d

Report Date: 02/22/2010 07:41

Lab. ID: 246434008

SampleType: SAMPLE

Injection Date: 21-FEB-2010 14:17

Operator: JMB3

Instrument: MSD4.i

Sample Info: |246434008|951989|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01|

Comment:

Method used: /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1620

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline	CAS#: 62-53-3				
66	11681	3.61	3.69	80-120	100	(T)
93	779	3.72	3.69	455-515	7	(Q)

17	N-Nitrosodipropylamine	CAS#: 621-64-7				
70	16073	4.26	4.14	80-120	100	(T)
42	7015	4.26	4.14	24- 84	44	(T)

43	Dimethylphthalate	CAS#: 131-11-3				
163	49463	6.02	5.79	80-120	100	(T)
164	280548	6.02	5.79	0- 40	567	(QT)

44	2,6-Dinitrotoluene	CAS#: 606-20-2				
165	36212	6.02	5.85	80-120	100	(T)
63	302	6.02	5.85	49-109	1	(QT)

50	2,4-Dinitrotoluene	CAS#: 121-14-2				
165	36212	6.02	6.13	80-120	100	(T)
89	445	6.02	6.13	52-112	1	(QT)
63	302	6.02	6.13	19- 79	1	(QT)

53	Fluorene	CAS#: 86-73-7				
166	2494	6.56	6.40	80-120	100	(T)
165	2691	6.56	6.40	59-119	108	(T)
167	828	6.56	6.40	0- 44	33	(T)

Q qualifier indicates ion failed ratio requirement

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Data file : /chem/MSD4.i/s022110a.b/s4b2113.d
 Lab Smp Id: 246434008 Client Smp ID: RE15-10-8350
 Inj Date : 21-FEB-2010 14:17
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |246434008|951989|1|SVM|1|LANL
 Misc Info : |MSD8270_S|WBN100205-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
 Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
 Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1620.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf *Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.03000	weight of sample
M	23.08340	% moisture

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 10 1,4-Dichlorobenzene-d4	3.898	800260	40.000
* 91 Chrysene-d12	8.696	1055714	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
2.930	237082	11.8502386	513	0		0	10

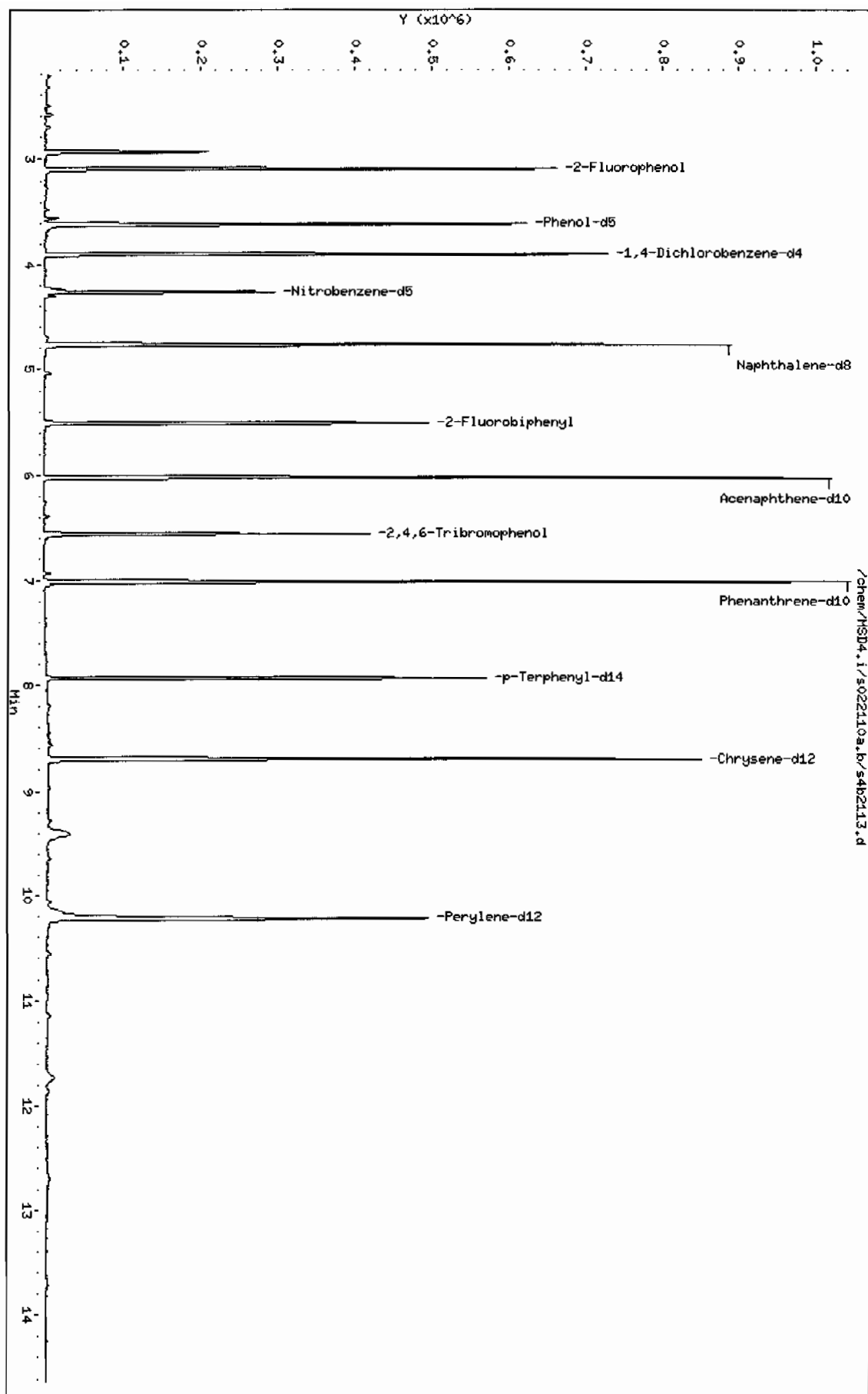
Unknown Aldol Condensate

CAS #:

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Unknown				CAS #:			
9.407	124715	4.72531682	204	0		0	91

Data File: /chem/HSD4.i/s022110a.b/s4b2113.d
Date: 21-FEB-2010 14:17
Client ID: RE15-10-8350
Sample Info: 1246340081951989115WH11LANL
Volume Injected (uL): 0.5
Column phase: J&M DB-5MS

Instrument: MSD4.i
Operator: JMB3
Column diameter: 0.20



Date : 21-FEB-2010 14:17

Client ID: RE15-10-8350

Instrument: MSD4.i

Sample Info: 1246434008195198911ISVH11ILANL

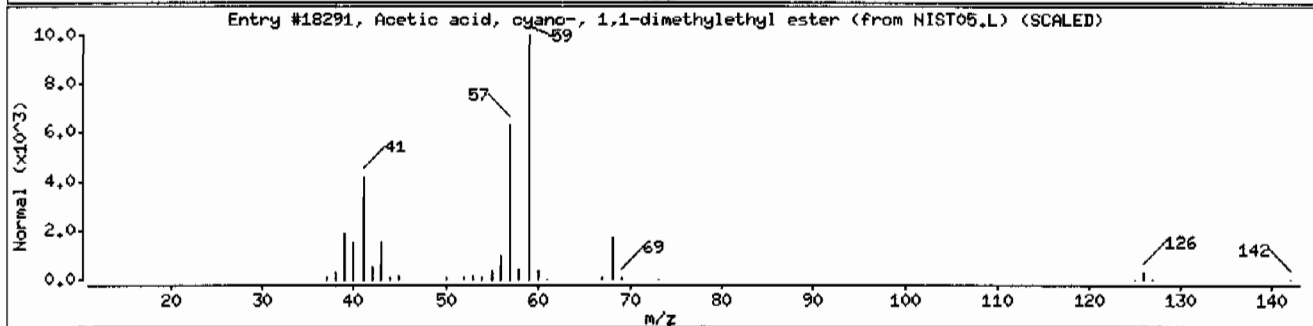
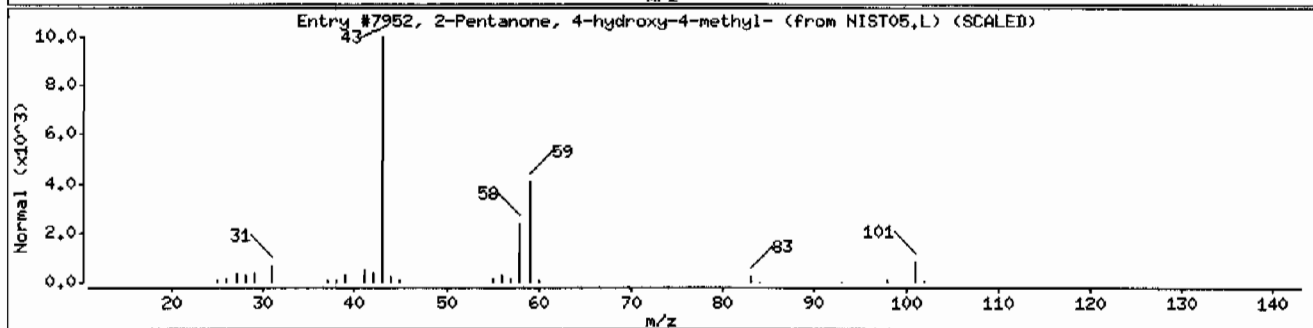
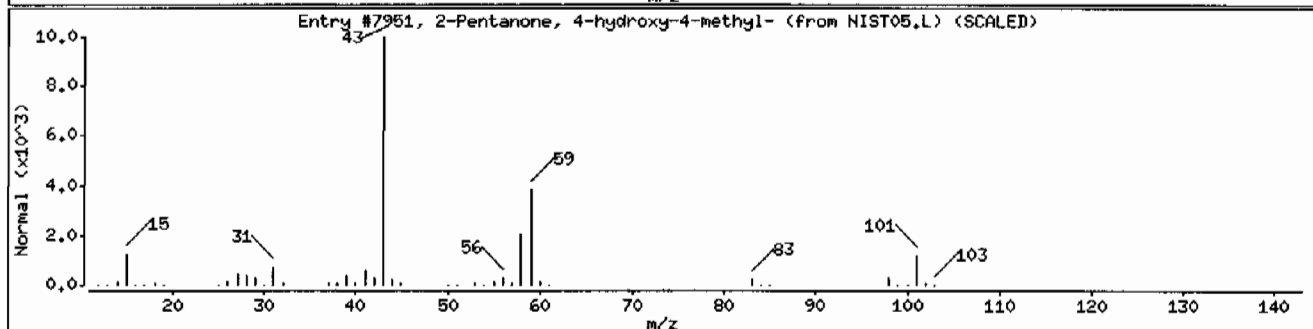
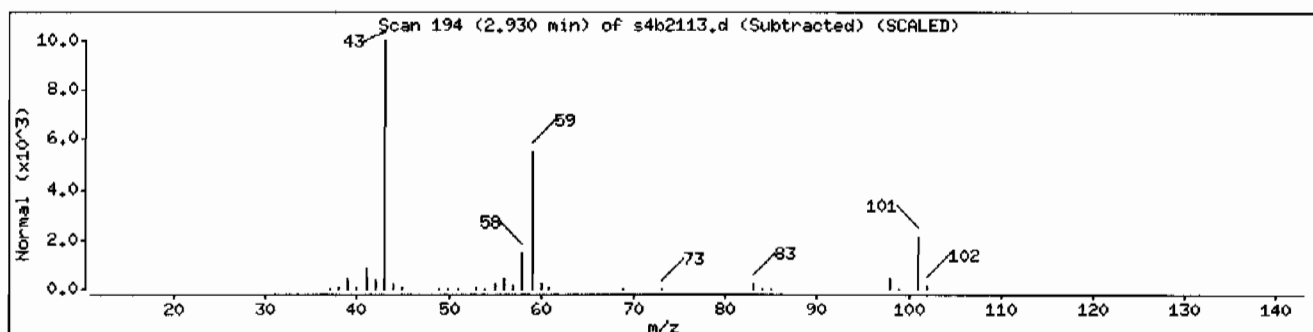
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	39	C6H12O2	116
Acetic acid, cyano-, 1,1-dimethylethyl e	1116-98-9	NIST05.L	18291	17	C7H11NO2	141



Date : 21-FEB-2010 14:17

Client ID: RE15-10-8350

Instrument: MSD4.i

Sample Info: I2464340081951989111SVH111LANL

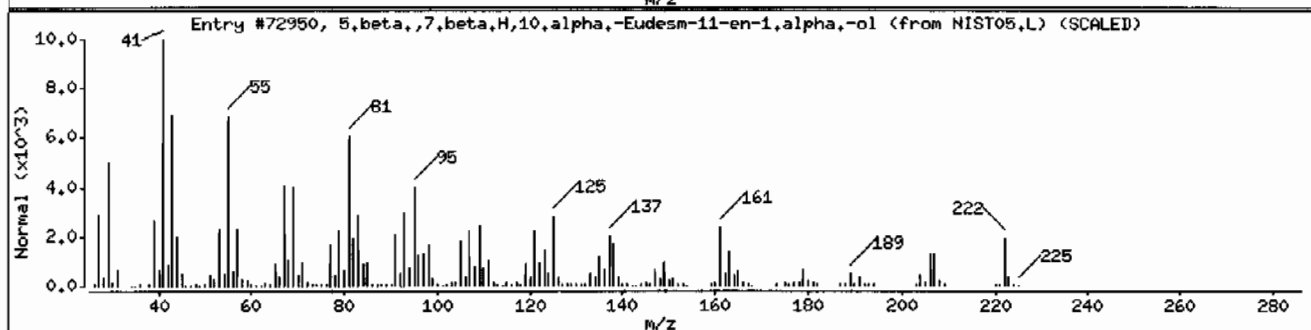
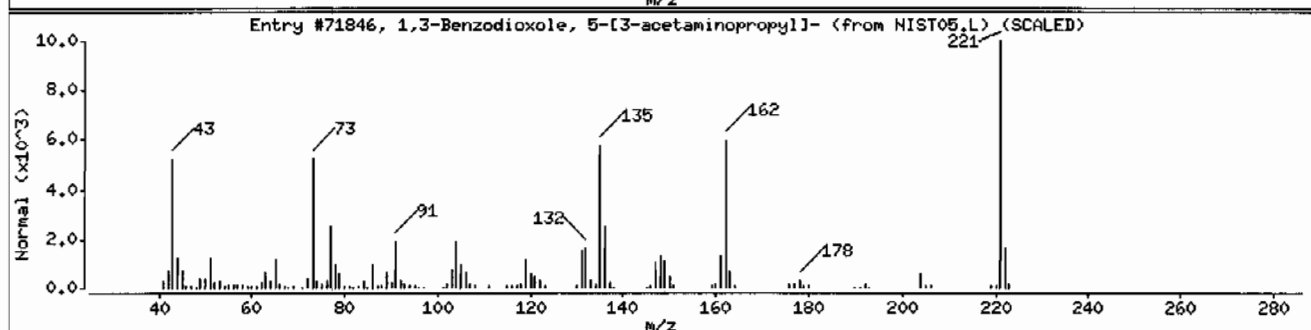
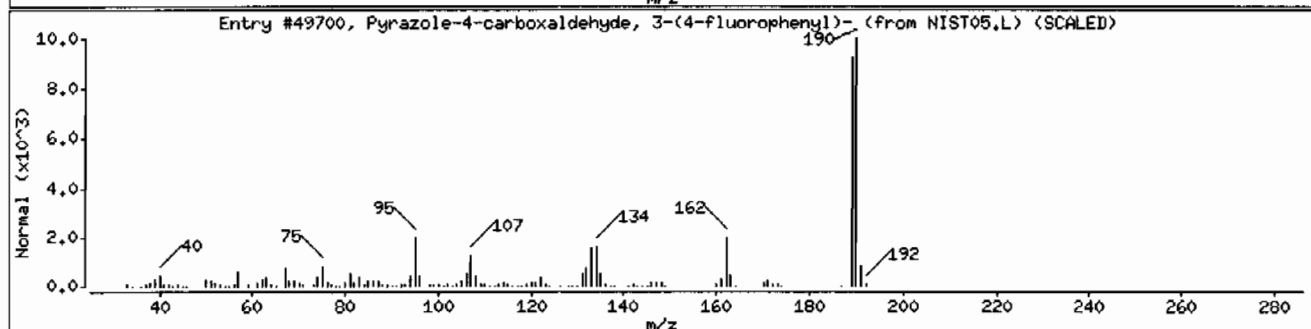
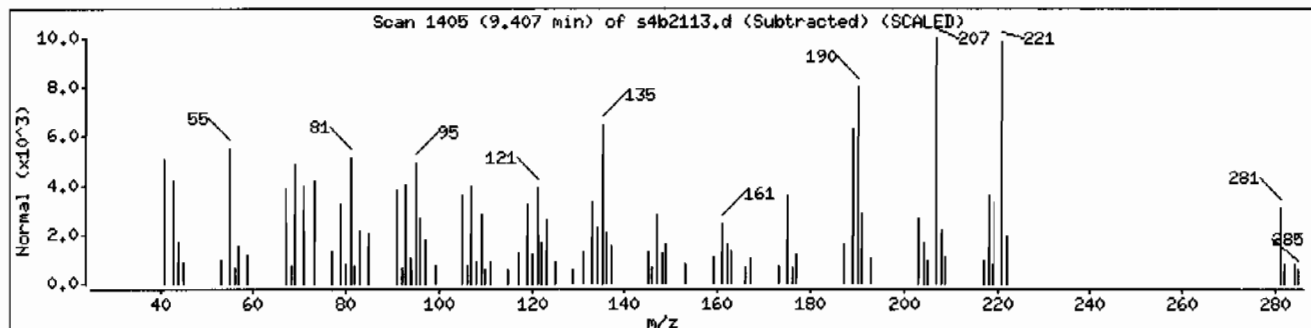
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Pyrazole-4-carboxaldehyde, 3-(4-fluoroph	306936-57-2	NIST05.L	49700	38	C10H7FN2O	190
1,3-Benzodioxole, 5-[3-acetaminopropyl]-	1000124-33-0	NIST05.L	71846	25	C12H15NO3	221
5, beta, ,7, beta, H, 10, alpha, -Eudesm-11-en-	25826-85-1	NIST05.L	72950	15	C15H26O	222



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434007

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4J
Analyst: JMB3
Aliquot: 30.15 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 15.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	391	ug/kg	78.2	391
108-95-2	Phenol	U	391	ug/kg	78.2	391
95-57-8	2-Chlorophenol	U	391	ug/kg	78.2	391
106-46-7	1,4-Dichlorobenzene	U	391	ug/kg	78.2	391
621-64-7	N-Nitrosodipropylamine	U	391	ug/kg	78.2	391
59-50-7	4-Chloro-3-methylphenol	U	391	ug/kg	78.2	391
83-32-9	Accnaphthene	U	39.1	ug/kg	12.9	39.1
121-14-2	2,4-Dinitrotoluene	U	391	ug/kg	39.1	391
100-02-7	4-Nitrophenol	U	391	ug/kg	129	391
87-86-5	Pentachlorophenol	U	391	ug/kg	97.7	391
129-00-0	Pyrene	U	39.1	ug/kg	11.7	39.1
110-86-1	Pyridine	U	391	ug/kg	78.2	391
62-53-3	Aniline	U	391	ug/kg	117	391
111-44-4	bis(2-Chloroethyl) ether	U	391	ug/kg	78.2	391
541-73-1	1,3-Dichlorobenzene	U	391	ug/kg	78.2	391
100-51-6	Benzyl alcohol	U	391	ug/kg	117	391
95-50-1	1,2-Dichlorobenzene	U	391	ug/kg	78.2	391
108-60-1	bis(2-Chloroisopropyl)ether	U	391	ug/kg	78.2	391
95-48-7	o-Cresol	U	391	ug/kg	78.2	391
65794-96-9	m,p-Cresols	U	391	ug/kg	117	391
67-72-1	Hexachloroethane	U	391	ug/kg	78.2	391
98-95-3	Nitrobenzene	U	391	ug/kg	78.2	391
78-59-1	Isophorone	U	391	ug/kg	78.2	391
88-75-5	2-Nitrophenol	U	391	ug/kg	78.2	391
105-67-9	2,4-Dimethylphenol	U	391	ug/kg	137	391
111-91-1	bis(2-Chloroethoxy)methane	U	391	ug/kg	78.2	391
120-83-2	2,4-Dichlorophenol	U	391	ug/kg	78.2	391
65-85-0	Benzoic acid	U	782	ug/kg	195	782
91-20-3	Naphthalene	U	39.1	ug/kg	11.7	39.1
106-47-8	4-Chloroaniline	U	391	ug/kg	78.2	391
87-68-3	Hexachlorobutadiene	U	391	ug/kg	78.2	391
91-57-6	2-Methylnaphthalene	U	39.1	ug/kg	7.82	39.1
77-47-4	Hexachlorocyclopentadiene	U	391	ug/kg	78.2	391
88-06-2	2,4,6-Trichlorophenol	U	391	ug/kg	78.2	391
95-95-4	2,4,5-Trichlorophenol	U	391	ug/kg	78.2	391
91-58-7	2-Chloronaphthalene	U	39.1	ug/kg	12.9	39.1
88-74-4	2-Nitroaniline	U	391	ug/kg	78.2	391
99-09-2	<i>o</i> -Nitroaniline	U	391	ug/kg	78.2	391
	3-Nitroaniline					

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434007

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.15 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 15.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline Dimethylphthalate	U	391	ug/kg	78.2	391
606-20-2	2,6-Dinitrotoluene	U	391	ug/kg	39.1	391
208-96-8	Acenaphthylene	U	39.1	ug/kg	11.7	39.1
51-28-5	2,4-Dinitrophenol	U	782	ug/kg	148	782
132-64-9	Dibenzofuran	U	391	ug/kg	78.2	391
84-66-2	Diethylphthalate	U	391	ug/kg	78.2	391
86-73-7	Fluorenc	U	39.1	ug/kg	11.7	39.1
7005-72-3	4-Chlorophenylphenylether	U	391	ug/kg	78.2	391
534-52-1	2-Methyl-4,6-dinitrophenol	U	391	ug/kg	78.2	391
100-01-6	4-Nitroaniline	U	391	ug/kg	117	391
122-39-4	<i>p</i> -Nitroaniline Diphenylamine	U	391	ug/kg	78.2	391
122-66-7	Azobenzene	U	391	ug/kg	78.2	391
101-55-3	1,2-Diphenylhydrazine 4-Bromophenylphenylether	U	391	ug/kg	78.2	391
118-74-1	Hexachlorobenzene	U	391	ug/kg	78.2	391
85-01-8	Phenanthrene	U	39.1	ug/kg	11.7	39.1
120-12-7	Anthracene	U	39.1	ug/kg	7.82	39.1
84-74-2	Di-n-butylphthalate	U	391	ug/kg	78.2	391
206-44-0	Fluoranthene	U	39.1	ug/kg	11.7	39.1
85-68-7	Butylbenzylphthalate	U	391	ug/kg	78.2	391
56-55-3	Benzo(a)anthracene	U	39.1	ug/kg	11.7	39.1
91-94-1	3,3'-Dichlorobenzidine	U	391	ug/kg	117	391
218-01-9	Chrysene	U	39.1	ug/kg	11.7	39.1
117-81-7	bis(2-Ethylhexyl)phthalate	U	391	ug/kg	78.2	391
117-84-0	Di-n-octylphthalate	U	391	ug/kg	78.2	391
205-99-2	Benzo(b)fluoranthene	U	39.1	ug/kg	11.7	39.1
207-08-9	Benzo(k)fluoranthene	U	39.1	ug/kg	11.7	39.1
50-32-8	Benzo(a)pyrene	U	39.1	ug/kg	11.7	39.1
193-39-5	Indeno(1,2,3-cd)pyrene	U	39.1	ug/kg	11.7	39.1
53-70-3	Dibenzo(a,h)anthracene	U	39.1	ug/kg	11.7	39.1
191-24-2	Benzo(ghi)perylene	U	39.1	ug/kg	11.7	39.1
120-82-1	1,2,4-Trichlorobenzene	U	391	ug/kg	78.2	391

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.94	411	ug/kg		J
7785-70-8	1R-.alpha.-Pinene	3.47	565	ug/kg	95	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434007	Date Received: 02/06/2010 09:15	%Moisture: 15.1
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8351	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 13:54	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.15 g	Final Volume: 1 mL
Data File: s4b2112.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
127-91-3	.beta.-Pinene	3.72	1030	ug/kg	94	NJ
498-15-7	Bicyclo[4.1.0]hept-3-ene, 3,7,7-trimethy	3.86	352	ug/kg	97	NJ
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.75	355	ug/kg	99	NJ
	Unknown	8.44	235	ug/kg		J

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Data file : /chem/MSD4.i/s022110a.b/s4b2112.d
 Lab Smp Id: 246434007 Client Smp ID: RE15-10-8351
 Inj Date : 21-FEB-2010 13:54
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |246434007|951989|1|SVM|1|LANL
 Misc Info : |MSD8270_S|WBN100205-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
 Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
 Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1620.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.15000	weight of sample
M	15.12200	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.898	3.903	(1.000)	135628	40.0000		
* 29 Naphthalene-d8	136	4.764	4.770	(1.000)	521793	40.0000		
* 46 Acenaphthene-d10	164	6.021	6.027	(1.000)	291528	40.0000		
* 67 Phenanthrene-d10	188	7.011	7.016	(1.000)	478446	40.0000		
* 91 Chrysene-d12	240	8.696	8.717	(1.000)	411214	40.0000		
* 98 Perylene-d12	264	10.215	10.236	(1.000)	349704	40.0000		
\$ 3 2-Fluorophenol	112	3.090	3.090	(0.793)	244147	63.1737	2470	
\$ 5 Phenol-d5	99	3.609	3.614	(0.926)	315105	64.9009	2540	
\$ 20 Nitrobenzene-d5	82	4.262	4.267	(0.894)	136180	33.9858	1330	
\$ 39 2-Fluorobiphenyl	172	5.508	5.513	(0.915)	223639	29.7101	1160	
\$ 60 2,4,6-Tribromophenol	329	6.556	6.561	(1.089)	72706	79.7448	3120	
\$ 81 p-Terphenyl-d14	244	7.931	7.941	(0.912)	248148	38.6032	1510	

ION RATIO REPORT

SV REPORT

Data file: s4b2112.d

Report Date: 02/22/2010 08:11

Lab. ID: 246434007

SampleType: SAMPLE

Injection Date: 21-FEB-2010 13:54

Operator: JMB3

Instrument: MSD4.i

Sample Info: |246434007|951989|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01|

Comment:

Method used: /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1620

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline	CAS#: 62-53-3				
66	13392	3.61	3.69	80-120	100	(T)
93	839	3.58	3.69	455-515	6	(QT)

6	Phenol	CAS#: 108-95-2				
94	17854	3.72	3.63	80-120	100	(T)
66	2601	3.72	3.63	8- 68	15	(T)
65	7656	3.72	3.63	0- 57	43	(T)

17	N-Nitrosodipropylamine	CAS#: 621-64-7				
70	18357	4.26	4.14	80-120	100	(T)
42	8150	4.26	4.14	24- 84	44	(T)

40	2-Chloronaphthalene	CAS#: 91-58-7				
162	2705	5.75	5.63	80-120	100	(T)
164	133	5.79	5.63	3- 63	5	(T)
127	69	5.75	5.63	6- 66	3	(QT)

43	Dimethylphthalate	CAS#: 131-11-3				
163	51868	6.02	5.79	80-120	100	(T)
164	291528	6.02	5.79	0- 40	562	(QT)

44	2,6-Dinitrotoluene	CAS#: 606-20-2				
165	37749	6.02	5.85	80-120	100	(T)
63	308	6.02	5.85	49-109	1	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
50	2,4-Dinitrotoluene		CAS#: 121-14-2			
165	37749	6.02	6.13	80-120	100	(T)
89	481	6.02	6.13	52-112	1	(QT)
63	308	6.02	6.13	19- 79	1	(QT)

53	Fluorene		CAS#: 86-73-7			
166	3204	6.56	6.40	80-120	100	(T)
165	3030	6.56	6.40	59-119	95	(T)
167	917	6.56	6.40	0- 44	29	(T)

 Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

GEL Laboratories, LLC

Data file : /chem/MSD4.i/s022110a.b/s4b2112.d
Lab Smp Id: 246434007 Client Smp ID: RE15-10-8351
Inj Date : 21-FEB-2010 13:54
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |246434007|951989|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1620.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.15000	weight of sample
M	15.12200	% moisture

Cpnd Variable

Local Compound Variable

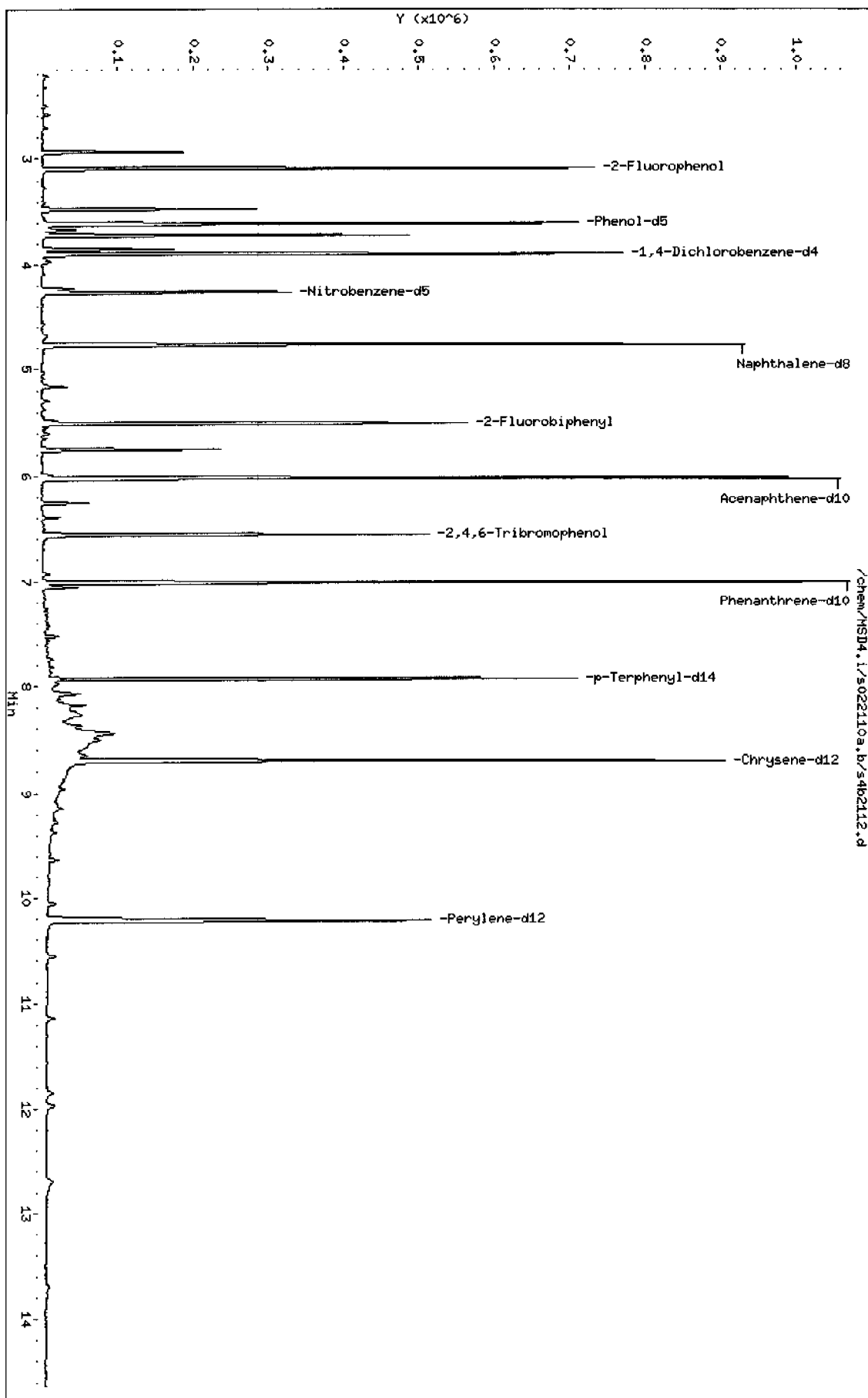
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.898	831598	40.000
* 46 Acenaphthene-d10	6.021	1218898	40.000
* 91 Chrysene-d12	8.696	1137307	40.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====

RT	CONCENTRATIONS			QUAL	QUANT		
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	CPND #
	=====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate					CAS #:		
2.935	218739	10.5213779	411	0		0	10
1R-.alpha.-Pinene					CAS #: 7785-70-8		
3.470	300708	14.4641044	565	95	NIST05.L	15186	10
.beta.-Pinene					CAS #: 127-91-3		
3.716	547179	26.3193936	1030	94	NIST05.L	15171	10
Bicyclo[4.1.0]hept-3-ene, 3,7,7-trimethy					CAS #: 498-15-7		
3.855	187191	9.00391066	352	97	NIST05.L	15369	10
1,4-Methanoazulene, decahydro-4,8,8-trim					CAS #: 475-20-7		
5.749	276803	9.08371462	355	99	NIST05.L	60024	46
Unknown					CAS #:		
8.439	171257	6.02325214	235	0		0	91

Data File: /chem/MSD4.i/s022110a.b/s4b2112.d
Date : 21-FEB-2010 13:54
Client ID: RELB-10-8351
Sample Info: 1246434007195199111SVH11.LANL
Volume Injected (uL): 0.5
Column phase: J&M DB-SMS

Instrument: MSD4.i
Operator: JMB3
Column diameter: 0.20



Date : 21-FEB-2010 13:54

Client ID: RE15-10-8381

Instrument: MSD4.i

Sample Info: 12464340071951989111SVH111LANL

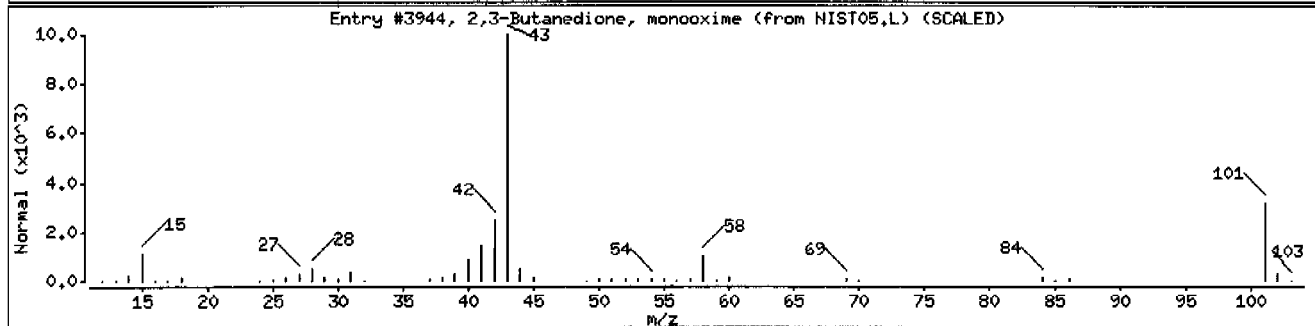
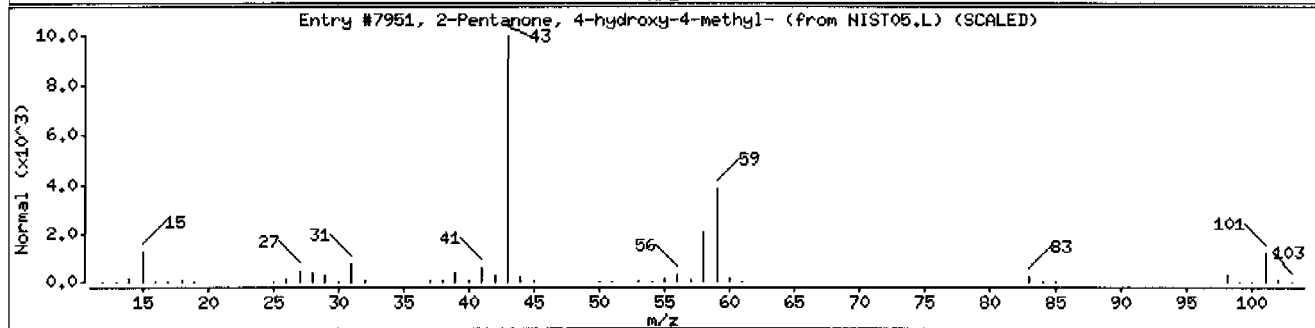
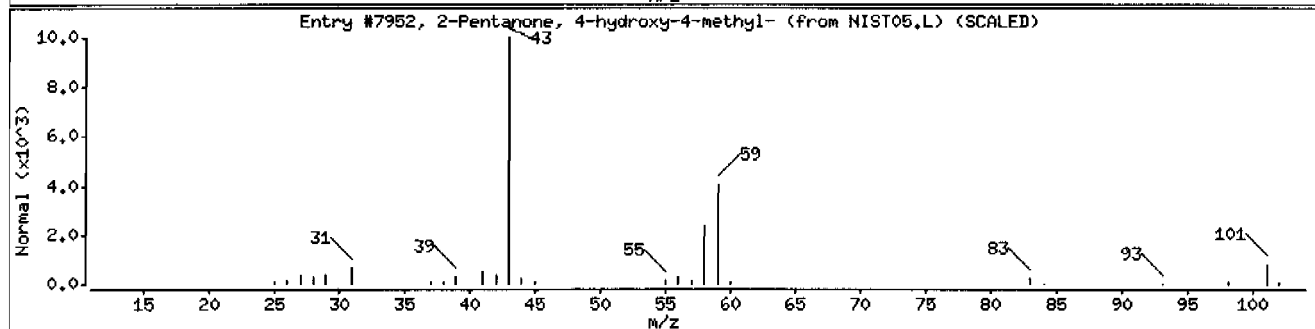
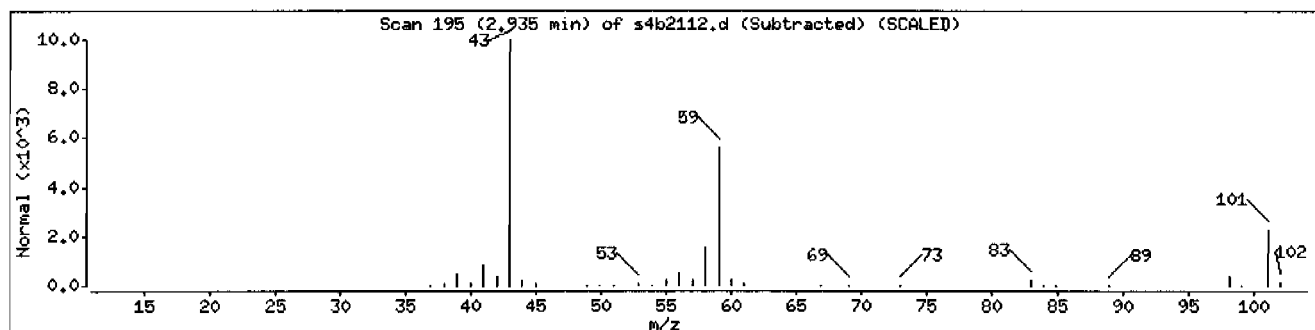
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	56	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
2,3-Butanedione, monooxime	57-71-6	NIST05.L	3944	17	C4H7NO2	101



Date : 21-FEB-2010 13:54

Client ID: RE15-10-8351

Instrument: MSD4.i

Sample Info: 1246434007195198911ISVMI1ILANL

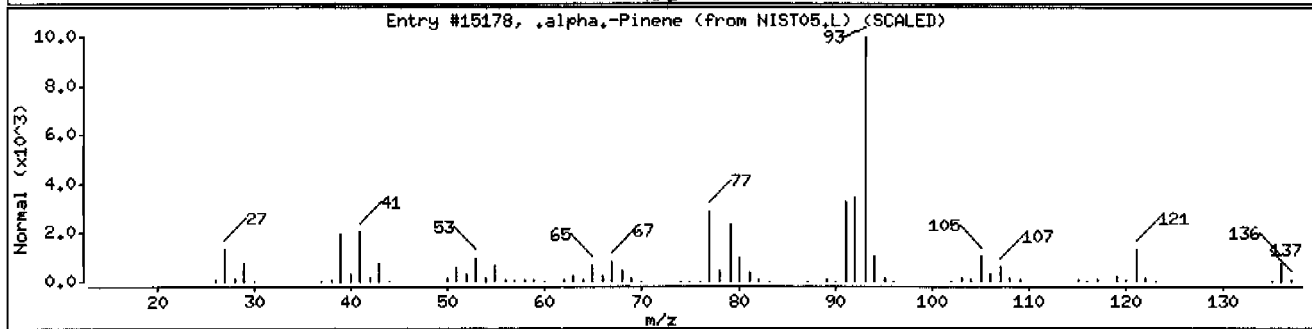
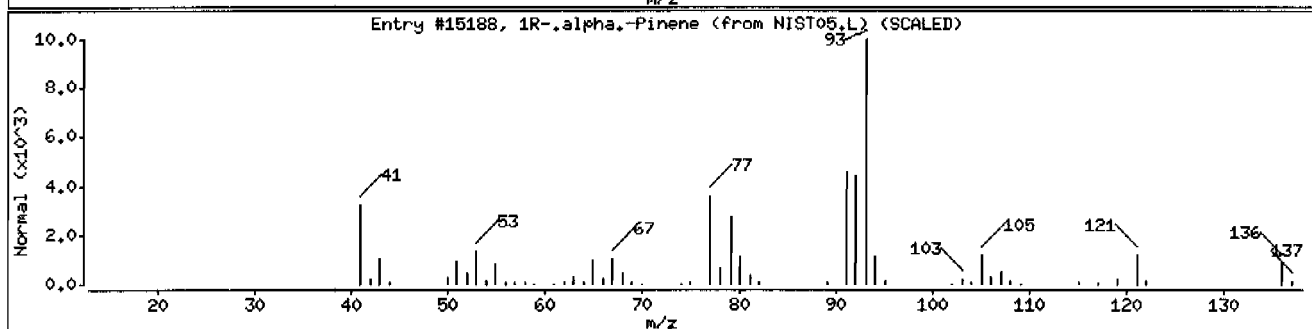
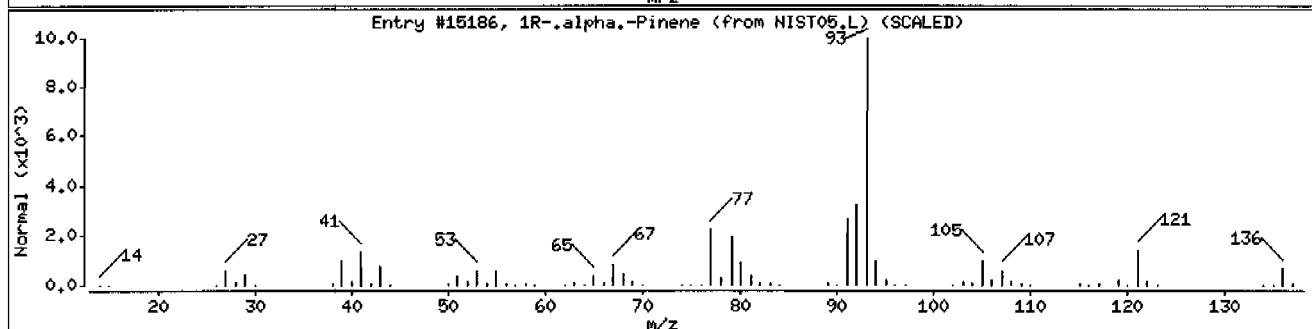
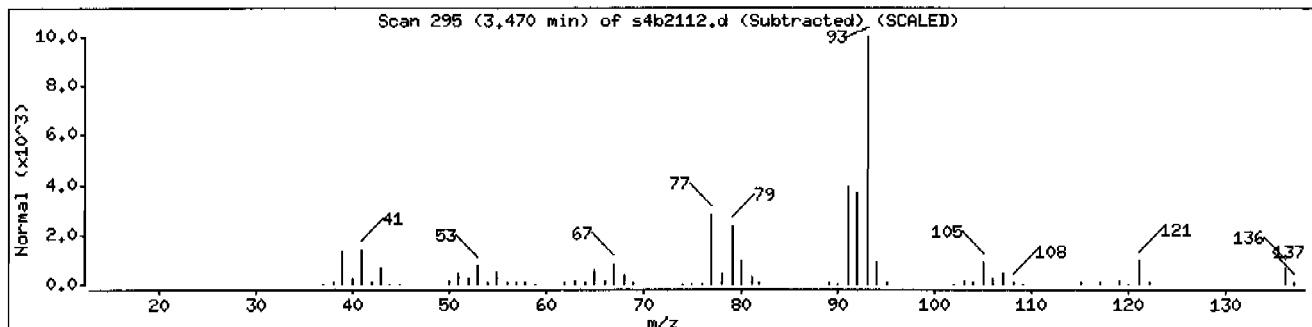
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1R-.alpha.-Pinene	7785-70-8	NIST05.L	15186	95	C10H16	136
1R-.alpha.-Pinene	7785-70-8	NIST05.L	15188	95	C10H16	136
.alpha.-Pinene	80-56-8	NIST05.L	15178	95	C10H16	136



Date : 21-FEB-2010 13:54

Client ID: RE15-10-8351

Instrument: MSD4.i

Sample Info: 1246434007195198911SVMI11LANL

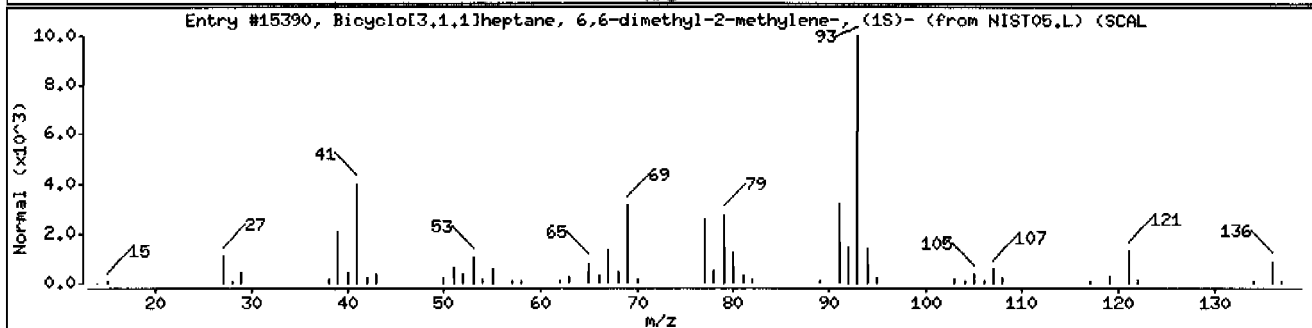
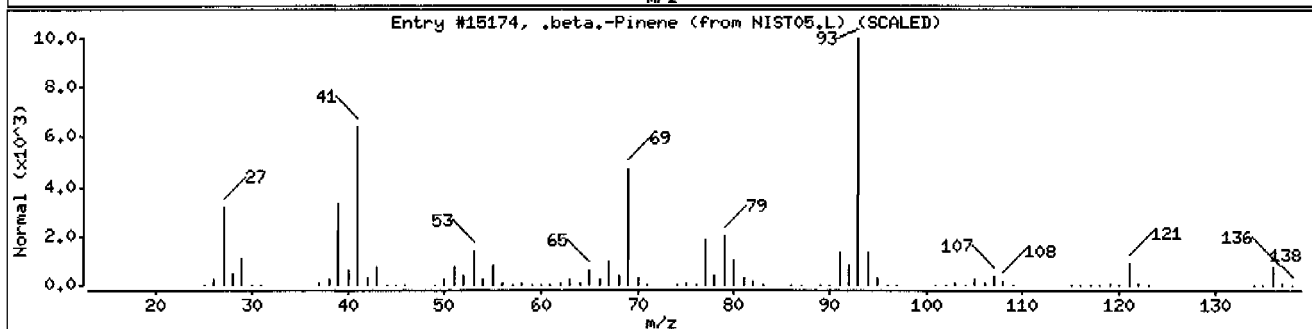
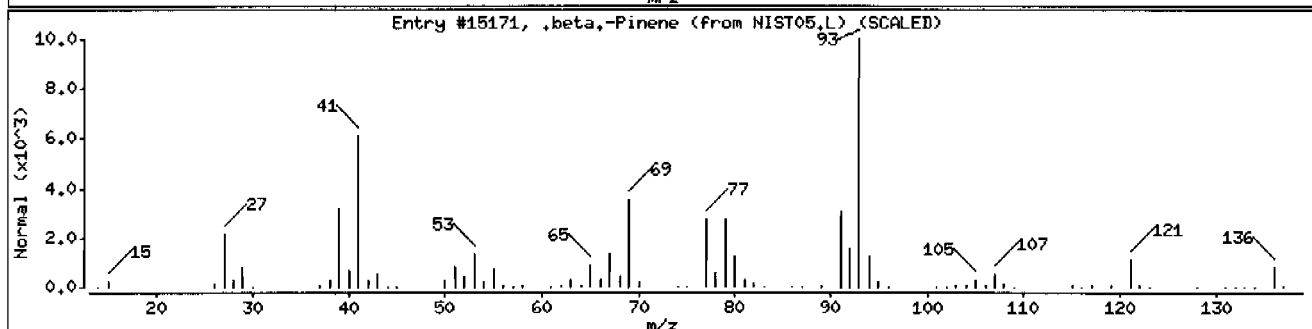
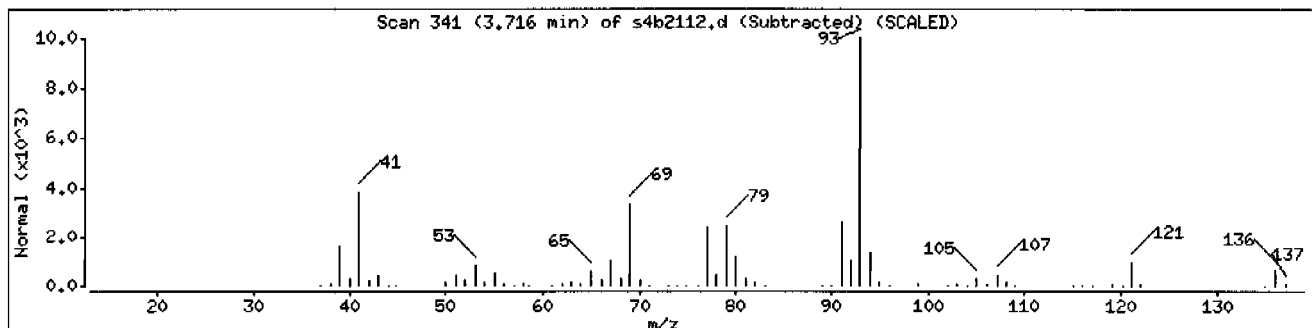
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
.beta.-Pinene	127-91-3	NIST05.L	15171	94	C10H16	136
.beta.-Pinene	127-91-3	NIST05.L	15174	91	C10H16	136
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-me	18172-67-3	NIST05.L	15390	91	C10H16	136



Date : 21-FEB-2010 13:54

Client ID: RE15-10-8351

Instrument: MSD4.i

Sample Info: 1246434007195198911SVMI1ILANL

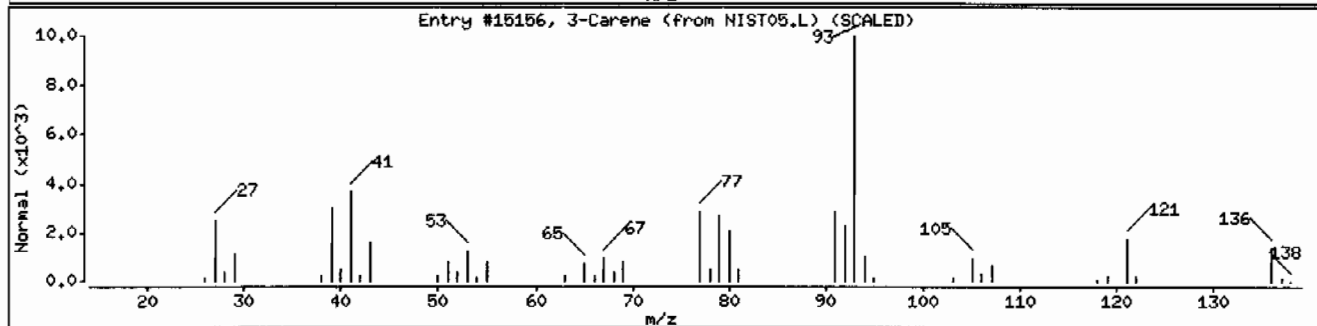
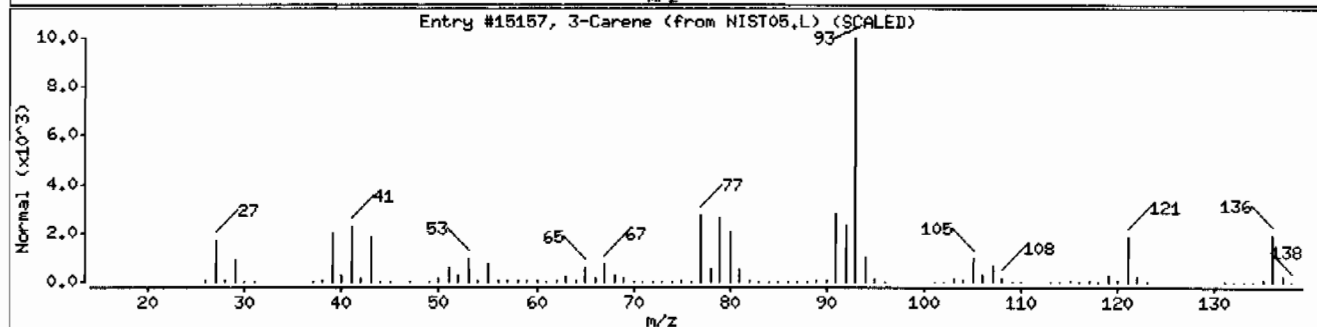
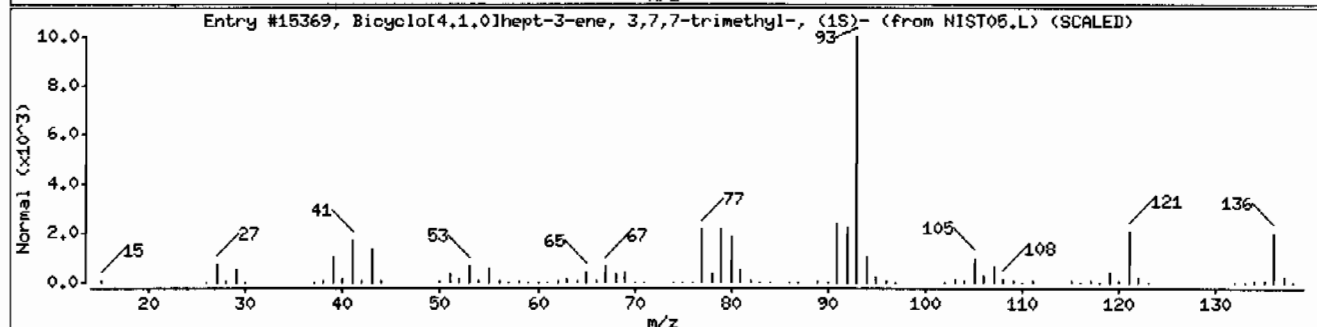
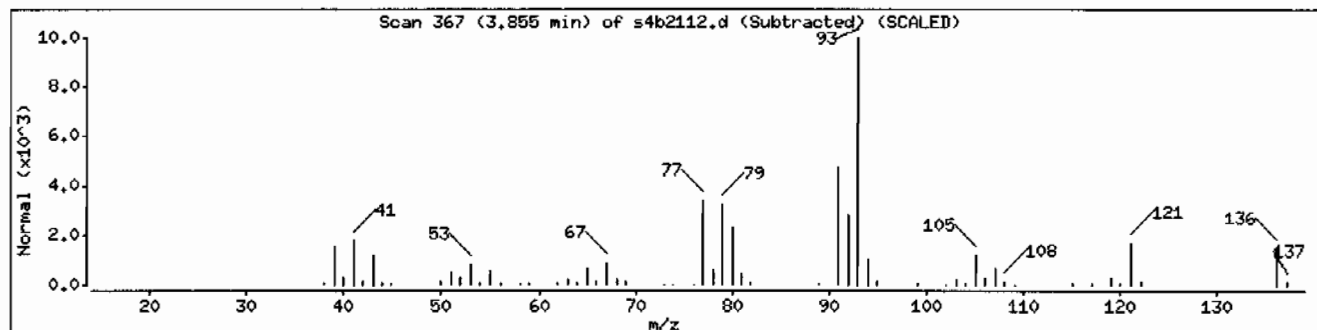
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Bicyclo[4.1.0]hept-3-ene, 3,7,7-trimethyl	498-15-7	NIST05.L	15369	97	C10H16	136
3-Carene	13466-78-9	NIST05.L	15157	95	C10H16	136
3-Carene	13466-78-9	NIST05.L	15156	95	C10H16	136



Date : 21-FEB-2010 13:54

Client ID: RE15-10-8351

Instrument: MSD4.i

Sample Info: 1246434007195198911SVH11ILANL

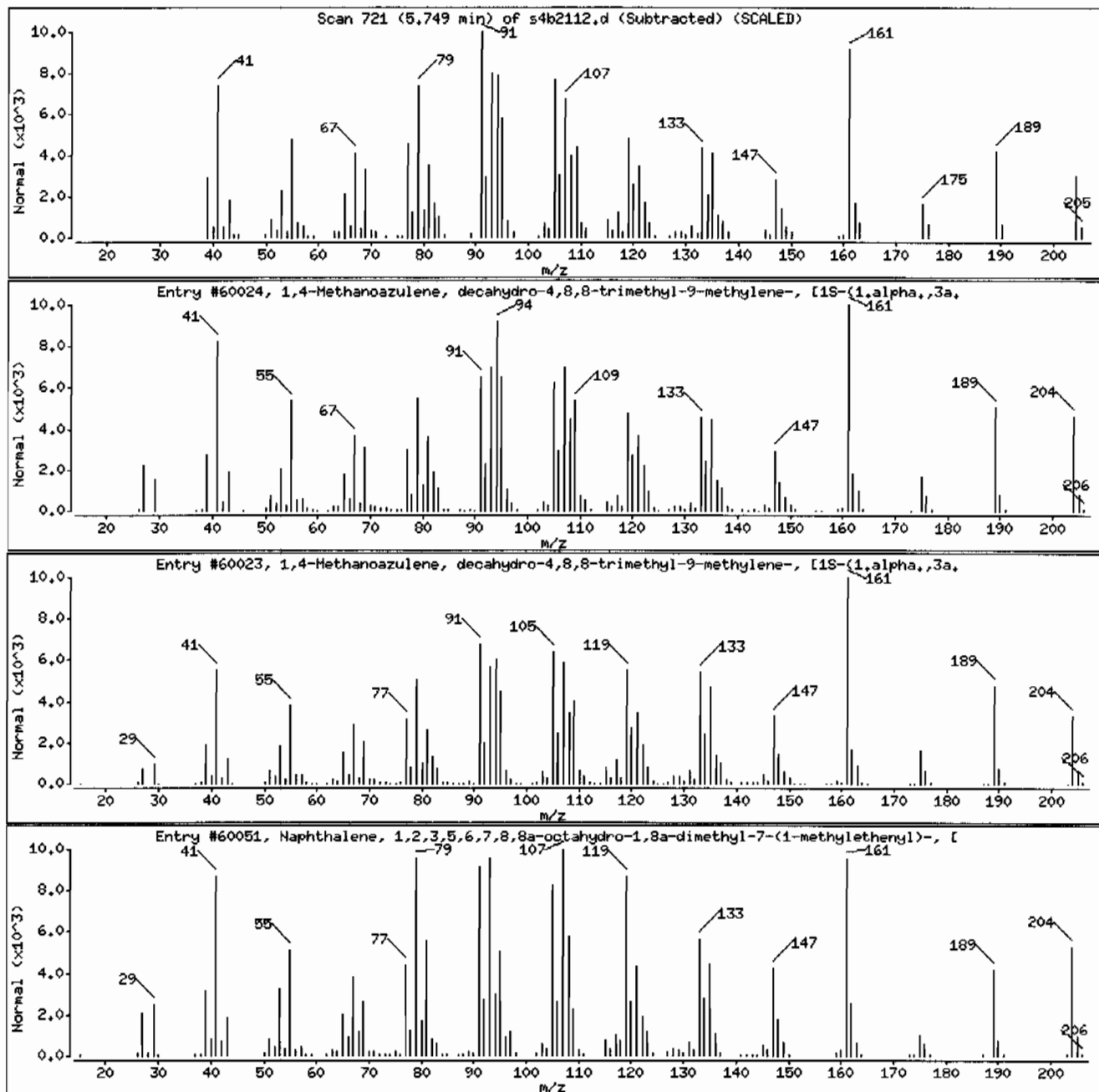
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60024	99	C15H24	204
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60023	99	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	10219-75-7	NIST05.L	60051	95	C15H24	204



Date : 21-FEB-2010 13:54

Client ID: RE15-10-8351

Instrument: MSD4.i

Sample Info: 12464340071951989111SVH111LANL

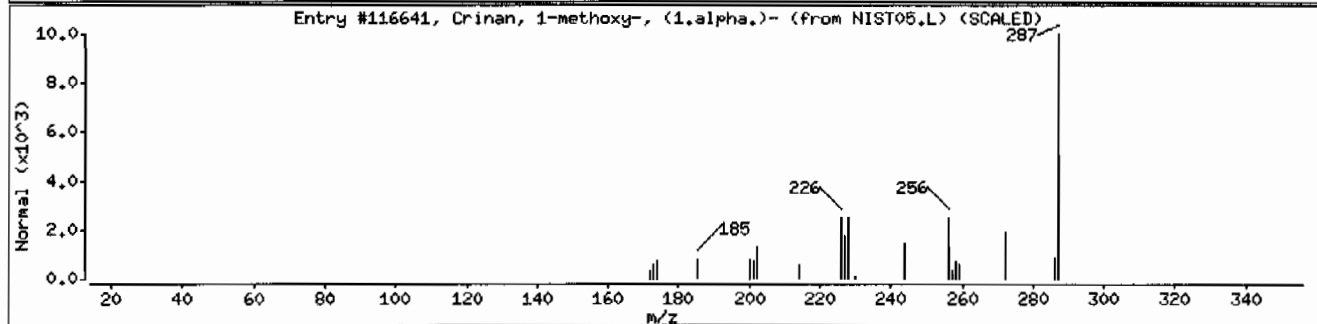
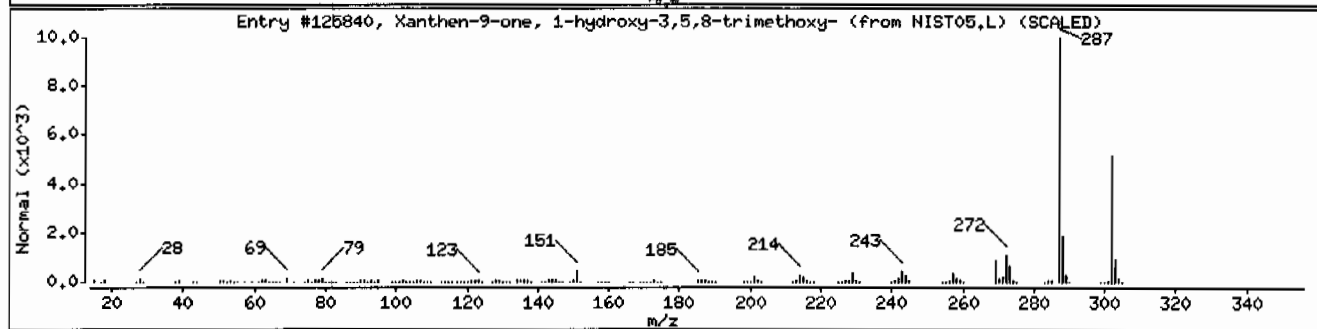
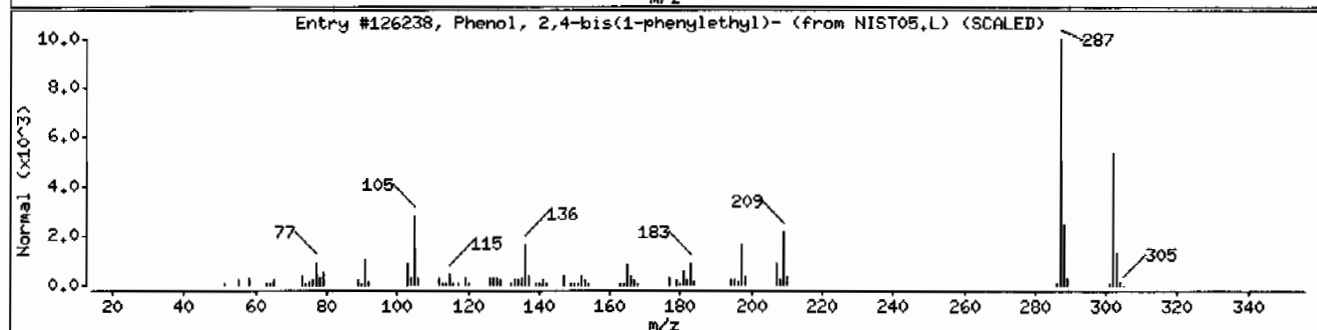
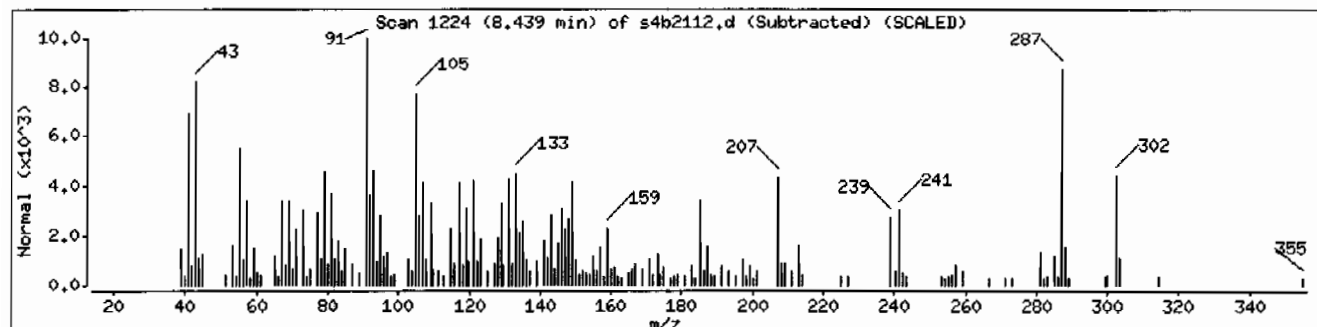
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Phenol, 2,4-bis(1-phenylethyl)-	2769-94-0	NIST05.L	126238	38	C22H22O	302
Xanthen-9-one, 1-hydroxy-3,5,8-trimethoxy-	49599-09-9	NIST05.L	125840	30	C16H14O6	302
Crinan, 1-methoxy-, (1.alpha.)-	41928-92-1	NIST05.L	116641	25	C17H21NO3	287



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434005	Date Received: 02/06/2010 09:15	%Moisture: 23
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8352	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.1	Dilution: 1
Run Date: 02/20/2010 21:05	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.02 g	Final Volume: 1 mL
Data File: s4b2029.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	433	ug/kg	86.5	433
108-95-2	Phenol	U	433	ug/kg	86.5	433
95-57-8	2-Chlorophenol	U	433	ug/kg	86.5	433
106-46-7	1,4-Dichlorobenzene	U	433	ug/kg	86.5	433
621-64-7	N-Nitrosodipropylamine	U	433	ug/kg	86.5	433
59-50-7	4-Chloro-3-methylphenol	U	433	ug/kg	86.5	433
83-32-9	Acenaphthene	U	43.3	ug/kg	14.3	43.3
121-14-2	2,4-Dinitrotoluene	U	433	ug/kg	43.3	433
100-02-7	4-Nitrophenol	U	433	ug/kg	143	433
87-86-5	Pentachlorophenol	U	433	ug/kg	108	433
129-00-0	Pyrene	U	43.3	ug/kg	13.0	43.3
110-86-1	Pyridine	U	433	ug/kg	86.5	433
62-53-3	Aniline	U	433	ug/kg	130	433
111-44-4	bis(2-Chloroethyl) ether	U	433	ug/kg	86.5	433
541-73-1	1,3-Dichlorobenzene	U	433	ug/kg	86.5	433
100-51-6	Benzyl alcohol	U	433	ug/kg	130	433
95-50-1	1,2-Dichlorobenzene	U	433	ug/kg	86.5	433
108-60-1	bis(2-Chloroisopropyl)ether	U	433	ug/kg	86.5	433
95-48-7	o-Cresol	U	433	ug/kg	86.5	433
65794-96-9	m,p-Cresols	U	433	ug/kg	130	433
67-72-1	Hexachloroethane	U	433	ug/kg	86.5	433
98-95-3	Nitrobenzene	U	433	ug/kg	86.5	433
78-59-1	Isophorone	U	433	ug/kg	86.5	433
88-75-5	2-Nitrophenol	U	433	ug/kg	86.5	433
105-67-9	2,4-Dimethylphenol	U	433	ug/kg	151	433
111-91-1	bis(2-Chloroethoxy)methane	U	433	ug/kg	86.5	433
120-83-2	2,4-Dichlorophenol	U	433	ug/kg	86.5	433
65-85-0	Benzoic acid	U	865	ug/kg	216	865
91-20-3	Naphthalene	U	43.3	ug/kg	13.0	43.3
106-47-8	4-Chloroaniline	U	433	ug/kg	86.5	433
87-68-3	Hexachlorobutadiene	U	433	ug/kg	86.5	433
91-57-6	2-Methylnaphthalene	U	43.3	ug/kg	8.65	43.3
77-47-4	Hexachlorocyclopentadiene	U	433	ug/kg	86.5	433
88-06-2	2,4,6-Trichlorophenol	U	433	ug/kg	86.5	433
95-95-4	2,4,5-Trichlorophenol	U	433	ug/kg	86.5	433
91-58-7	2-Chloronaphthalene	U	43.3	ug/kg	14.3	43.3
88-74-4	2-Nitroaniline	U	433	ug/kg	86.5	433
	o-Nitroaniline					
99-09-2	3-Nitroaniline	U	433	ug/kg	86.5	433

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434005	Date Received: 02/06/2010 09:15	%Moisture: 23
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8352	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/20/2010 21:05	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.02 g	Final Volume: 1 mL
Data File: s4b2029.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	433	ug/kg	86.5	433
606-20-2	2,6-Dinitrotoluene	U	433	ug/kg	43.3	433
208-96-8	Acenaphthylene	U	43.3	ug/kg	13.0	43.3
51-28-5	2,4-Dinitrophenol	U	865	ug/kg	164	865
132-64-9	Dibenzofuran	U	433	ug/kg	86.5	433
84-66-2	Diethylphthalate	U	433	ug/kg	86.5	433
86-73-7	Fluorene	U	43.3	ug/kg	13.0	43.3
7005-72-3	4-Chlorophenylphenylether	U	433	ug/kg	86.5	433
534-52-1	2-Methyl-4,6-dinitrophenol	U	433	ug/kg	86.5	433
100-01-6	4-Nitroaniline	U	433	ug/kg	130	433
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	433	ug/kg	86.5	433
122-66-7	Azobenzene	U	433	ug/kg	86.5	433
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	433	ug/kg	86.5	433
118-74-1	Hexachlorobenzene	U	433	ug/kg	86.5	433
85-01-8	Phenanthrene	U	43.3	ug/kg	13.0	43.3
120-12-7	Anthracene	U	43.3	ug/kg	8.65	43.3
84-74-2	Di-n-butylphthalate	U	433	ug/kg	86.5	433
206-44-0	Fluoranthene	U	43.3	ug/kg	13.0	43.3
85-68-7	Butylbenzylphthalate	U	433	ug/kg	86.5	433
56-55-3	Benzo(a)anthracene	U	43.3	ug/kg	13.0	43.3
91-94-1	3,3'-Dichlorobenzidine	U	433	ug/kg	130	433
218-01-9	Chrysene	U	43.3	ug/kg	13.0	43.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	433	ug/kg	86.5	433
117-84-0	Di-n-octylphthalate	U	433	ug/kg	86.5	433
205-99-2	Benzo(b)fluoranthene	U	43.3	ug/kg	13.0	43.3
207-08-9	Benzo(k)fluoranthene	U	43.3	ug/kg	13.0	43.3
50-32-8	Benzo(a)pyrene	U	43.3	ug/kg	13.0	43.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	43.3	ug/kg	13.0	43.3
53-70-3	Dibenzo(a,h)anthracene	U	43.3	ug/kg	13.0	43.3
191-24-2	Benzo(ghi)perylene	U	43.3	ug/kg	13.0	43.3
120-82-1	1,2,4-Trichlorobenzene	U	433	ug/kg	86.5	433

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.1	381	ug/kg		J
	Unknown Aldol Condensate	2.97	644	ug/kg		J

Data File: /chem/MSD4.i/s022010.b/s4b2029.d
Report Date: 21-Feb-2010 09:54

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GEL Laboratories LLC

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Data file : /chem/MSD4.i/s022010.b/s4b2029.d
Lab Smp Id: 246434005 Client Smp ID: RE15-10-8352
Inj Date : 20-FEB-2010 21:05
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |246434005|951989|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 08:46 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1620.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.02000	weight of sample
M	23.02030	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.930	3.935	(1.000)	171665	40.0000		
* 29 Naphthalene-d8	136	4.797	4.802	(1.000)	684823	40.0000		
* 46 Acenaphthene-d10	164	6.054	6.053	(1.000)	363653	40.0000		
* 67 Phenanthrene-d10	188	7.043	7.043	(1.000)	545932	40.0000		
* 91 Chrysene-d12	240	8.733	8.754	(1.000)	426516	40.0000		
* 98 Perylene-d12	264	10.274	10.300	(1.000)	305715	40.0000		
\$ 3 2-Fluorophenol	112	3.122	3.117	(0.794)	332359	67.9454	2940	
\$ 5 Phenol-d5	99	3.641	3.646	(0.926)	433627	70.5634	3050	
\$ 20 Nitrobenzene-d5	82	4.294	4.299	(0.895)	178558	33.9534	1470	
\$ 39 2-Fluorobiphenyl	172	5.540	5.545	(0.915)	316786	33.7378	1460	
\$ 60 2,4,6-Tribromophenol	329	6.588	6.588	(1.088)	86020	75.6354	3270	
\$ 81 p-Terphenyl-d14	244	7.963	7.968	(0.912)	308297	46.2396	2000	

ION RATIO REPORT

SV REPORT

Data file: s4b2029.d

Report Date: 02/21/2010 09:02

Lab. ID: 246434005

SampleType: SAMPLE

Injection Date: 20-FEB-2010 21:05

Operator: JMB3

Instrument: MSD4.i

Sample Info: |246434005|951989|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01|

Comment:

Method used: /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1620

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline	CAS#: 62-53-3				
66	16190	3.64	3.72	80-120	100	(T)
93	221	3.50	3.73	486-546	1	(QT)

17	N-Nitrosodipropylamine	CAS#: 621-64-7				
70	22584	4.29	4.18	80-120	100	(T)
42	10604	4.29	4.18	22- 82	47	(T)

27	Benzoic acid	CAS#: 65-85-0				
105	677	4.80	4.58	80-120	100	(T)
122	121	4.80	4.58	49-109	18	(QT)
77	2130	4.80	4.58	34- 94	314	(QT)

43	Dimethylphthalate	CAS#: 131-11-3				
163	63033	6.05	5.82	80-120	100	(T)
164	363653	6.05	5.82	0- 40	577	(QT)

44	2,6-Dinitrotoluene	CAS#: 606-20-2				
165	46787	6.05	5.88	80-120	100	(T)
63	329	6.05	5.88	33- 93	1	(QT)

50	2,4-Dinitrotoluene	CAS#: 121-14-2				
165	46787	6.05	6.17	80-120	100	(T)
89	570	6.05	6.17	41-101	1	(QT)
63	329	6.05	6.17	11- 71	1	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
53	Fluorene		CAS#:	86-73-7		
166	4209	6.58	6.43	80-120	100	(T)
165	4713	6.58	6.43	58-118	112	(T)
167	1395	6.59	6.43	0- 44	33	(T)

 Q qualifier indicates ion failed ratio requirement

Data File: /chem/MSD4.i/s022010.b/s4b2029.d
 Report Date: 21-Feb-2010 09:54

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Data file : /chem/MSD4.i/s022010.b/s4b2029.d
 Lab Smp Id: 246434005 Client Smp ID: RE15-10-8352
 Inj Date : 20-FEB-2010 21:05
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |246434005|951989|1|SVM|1|LANL
 Misc Info : |MSD8270 S|WBN100205-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
 Meth Date : 21-Feb-2010 08:46 jos00786 Quant Type: ISTD
 Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
 Als bottle: 18
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1620.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.02000	weight of sample
M	23.02030	% moisture

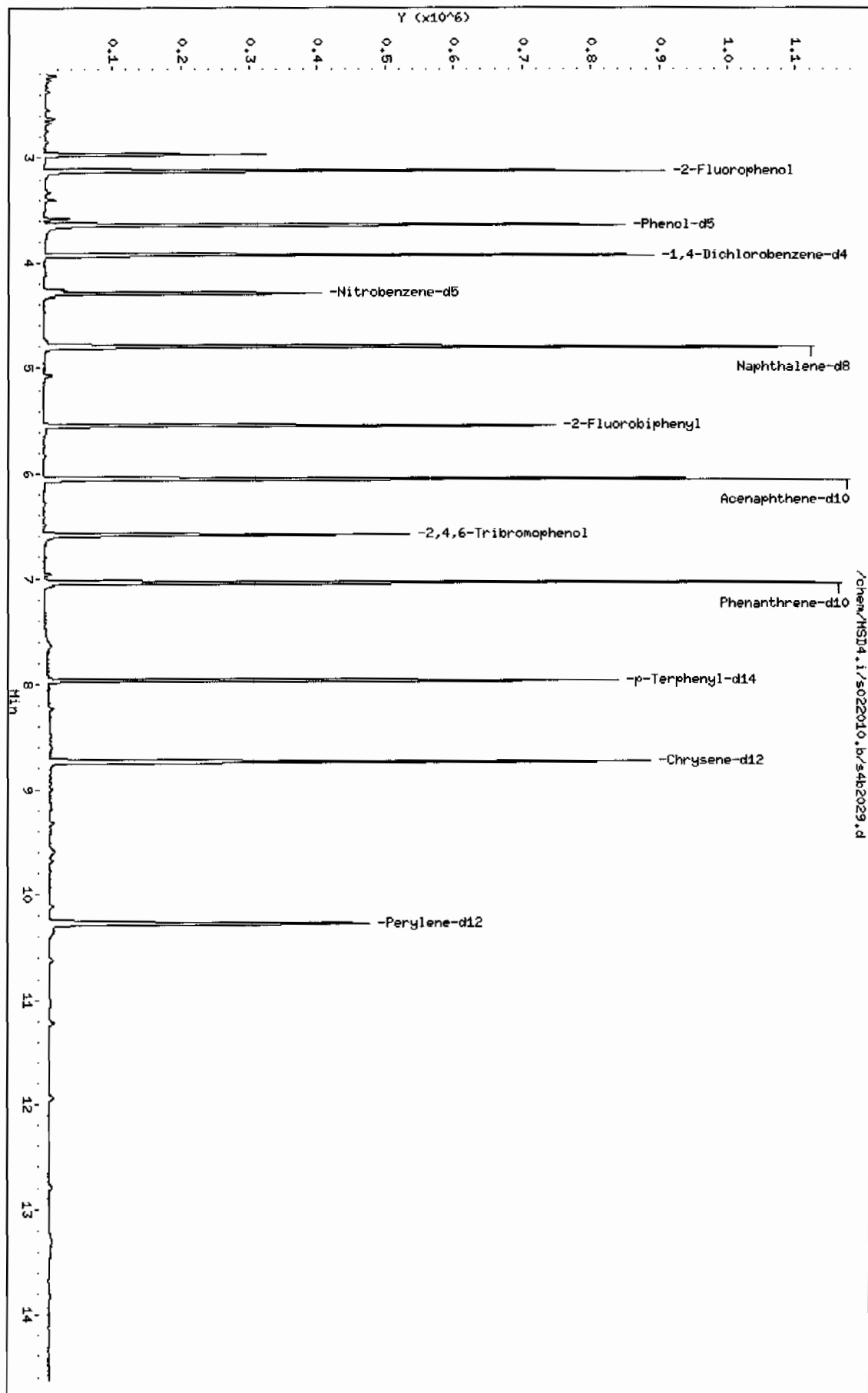
Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.930	999790	40.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown				CAS #:			
2.101	219877	8.79694480	381	0		0	10
Unknown Aldol Condensate				CAS #:			
2.967	371790	14.8747147	644	0		0	10

Data File: /chem/MSD4.i/s022010.b/s4b2029.d
Date: 20-FEB-2010 21:05
Client ID: REL5-10-8382
Sample Info: 12464340051951989111SWH11LANL
Volume Injected (uL): 0.5
Column phase: J&W DB-9HS

Instrument: MSD4.i
Operator: JMB3
Column diameter: 0.20



Date : 20-FEB-2010 21:05

Client ID: RE15-10-8352

Instrument: MSD4.i

Sample Info: 12464340051951989111SVH111LANL

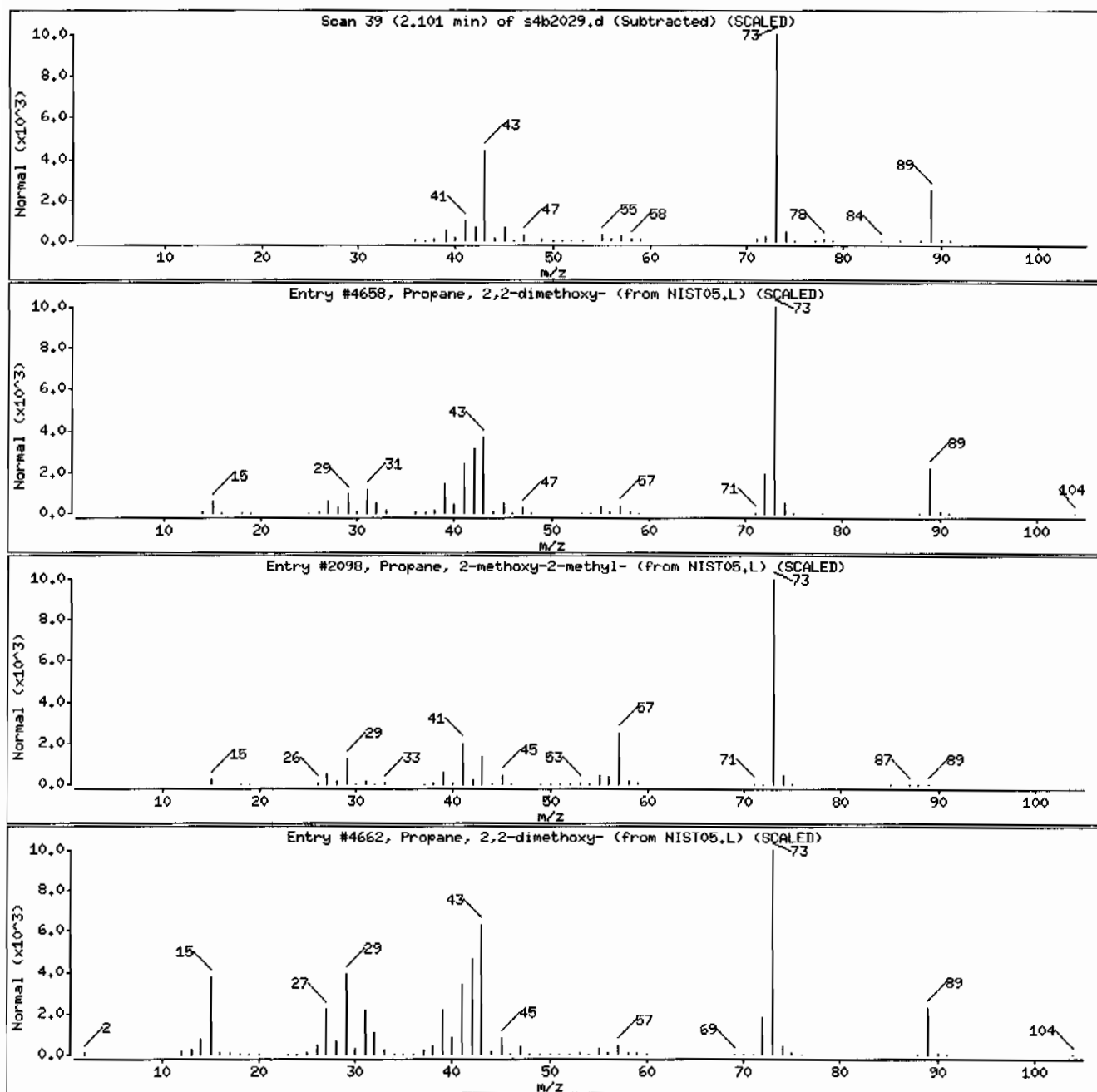
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4658	50	C5H12O2	104
Propane, 2-methoxy-2-methyl-	1634-04-4	NIST05.L	2098	12	C5H12O	88
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4662	9	C5H12O2	104



Date: 20-FEB-2010 21:05

Client ID: RE15-10-8352

Instrument: HSD4.i

Sample Info: 1246434005195198911SVH11ILANL

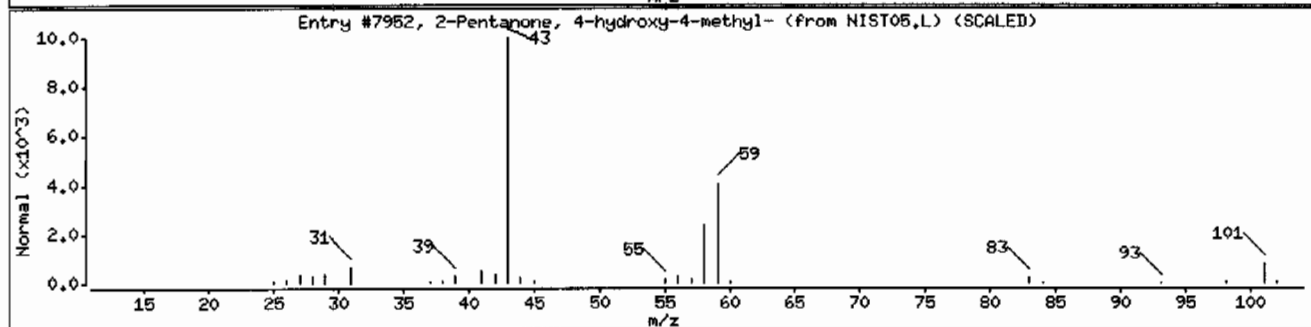
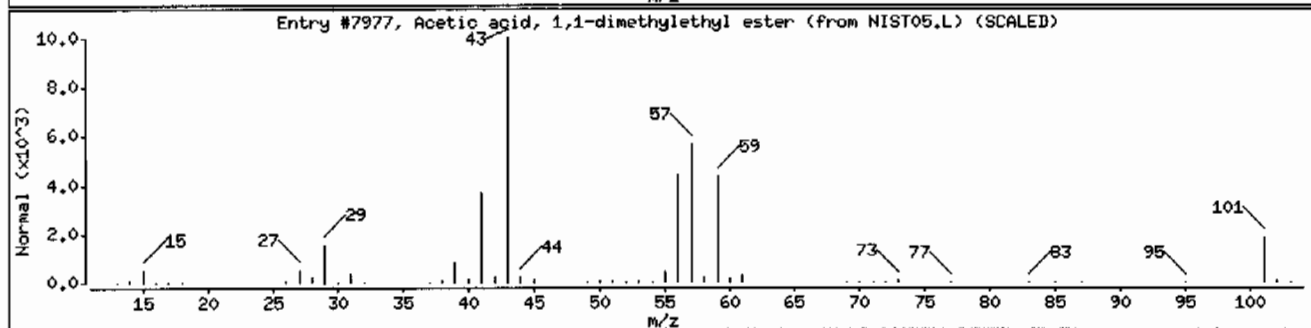
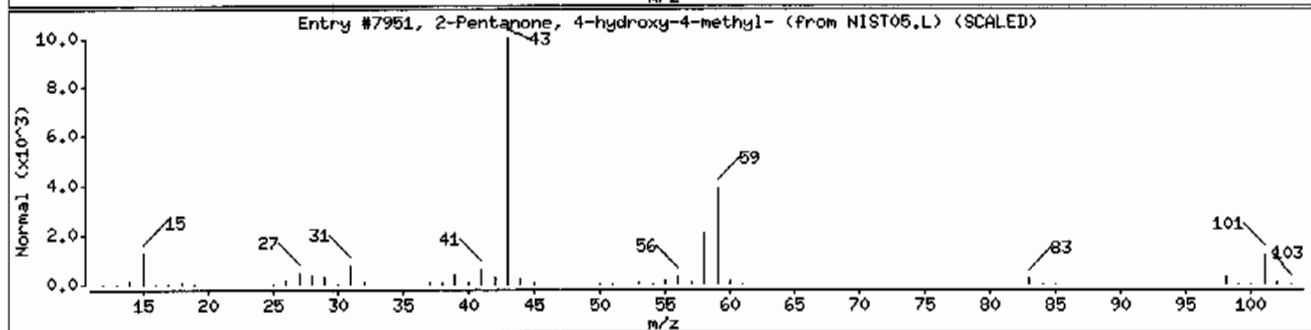
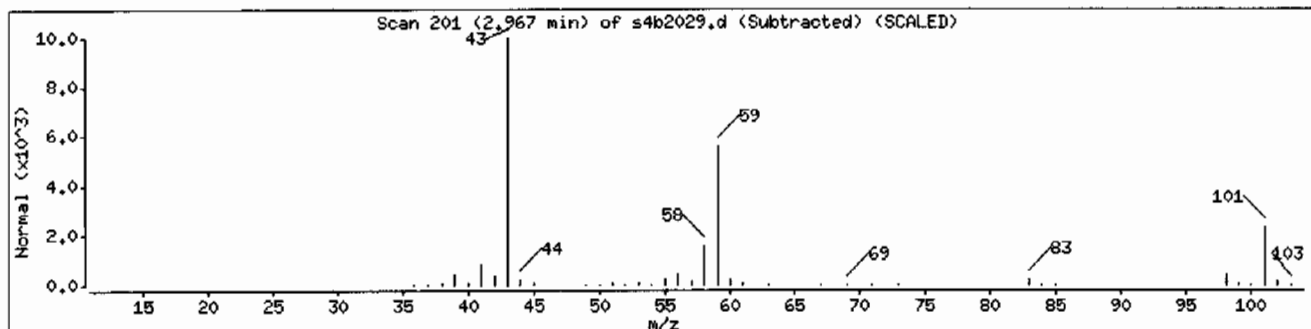
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
Acetic acid, 1,1-dimethylethyl ester	540-88-5	NIST05.L	7977	39	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	39	C6H12O2	116



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434004	Date Received: 02/06/2010 09:15	%Moisture: 13
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8353	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 13:10	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.05 g	Final Volume: 1 mL
Data File: s4b2110.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	382	ug/kg	76.5	382
108-95-2	Phenol	U	382	ug/kg	76.5	382
95-57-8	2-Chlorophenol	U	382	ug/kg	76.5	382
106-46-7	1,4-Dichlorobenzene	U	382	ug/kg	76.5	382
621-64-7	N-Nitrosodipropylamine	U	382	ug/kg	76.5	382
59-50-7	4-Chloro-3-methylphenol	U	382	ug/kg	76.5	382
83-32-9	Acenaphthene	U	38.2	ug/kg	12.6	38.2
121-14-2	2,4-Dinitrotoluene	U	382	ug/kg	38.2	382
100-02-7	4-Nitrophenol	U	382	ug/kg	126	382
87-86-5	Pentachlorophenol	U	382	ug/kg	95.6	382
129-00-0	Pyrene	U	38.2	ug/kg	11.5	38.2
110-86-1	Pyridine	U	382	ug/kg	76.5	382
62-53-3	Aniline	U	382	ug/kg	115	382
111-44-4	bis(2-Chloroethyl) ether	U	382	ug/kg	76.5	382
541-73-1	1,3-Dichlorobenzene	U	382	ug/kg	76.5	382
100-51-6	Benzyl alcohol	U	382	ug/kg	115	382
95-50-1	1,2-Dichlorobenzene	U	382	ug/kg	76.5	382
108-60-1	bis(2-Chloroisopropyl)ether	U	382	ug/kg	76.5	382
95-48-7	o-Cresol	U	382	ug/kg	76.5	382
65794-96-9	m,p-Cresols	U	382	ug/kg	115	382
67-72-1	Hexachloroethane	U	382	ug/kg	76.5	382
98-95-3	Nitrobenzene	U	382	ug/kg	76.5	382
78-59-1	Isophorone	U	382	ug/kg	76.5	382
88-75-5	2-Nitrophenol	U	382	ug/kg	76.5	382
105-67-9	2,4-Dimethylphenol	U	382	ug/kg	134	382
111-91-1	bis(2-Chloroethoxy)methane	U	382	ug/kg	76.5	382
120-83-2	2,4-Dichlorophenol	U	382	ug/kg	76.5	382
65-85-0	Benzoic acid	U	765	ug/kg	191	765
91-20-3	Naphthalene	U	38.2	ug/kg	11.5	38.2
106-47-8	4-Chloroaniline	U	382	ug/kg	76.5	382
87-68-3	Hexachlorobutadiene	U	382	ug/kg	76.5	382
91-57-6	2-Methylnaphthalene	U	38.2	ug/kg	7.65	38.2
77-47-4	Hexachlorocyclopentadiene	U	382	ug/kg	76.5	382
88-06-2	2,4,6-Trichlorophenol	U	382	ug/kg	76.5	382
95-95-4	2,4,5-Trichlorophenol	U	382	ug/kg	76.5	382
91-58-7	2-Chloronaphthalene	U	38.2	ug/kg	12.6	38.2
88-74-4	2-Nitroaniline	U	382	ug/kg	76.5	382
99-09-2	<i>o</i> -Nitroaniline	U	382	ug/kg	76.5	382
	3-Nitroaniline					

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434004	Date Received: 02/06/2010 09:15	%Moisture: 13
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8353	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 13:10	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.05 g	Final Volume: 1 mL
Data File: s4b2110.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	382	ug/kg	76.5	382
606-20-2	2,6-Dinitrotoluene	U	382	ug/kg	38.2	382
208-96-8	Acenaphthylene	U	38.2	ug/kg	11.5	38.2
51-28-5	2,4-Dinitrophenol	U	765	ug/kg	145	765
132-64-9	Dibenzofuran	U	382	ug/kg	76.5	382
84-66-2	Diethylphthalate	U	382	ug/kg	76.5	382
86-73-7	Fluorene	U	38.2	ug/kg	11.5	38.2
7005-72-3	4-Chlorophenylphenylether	U	382	ug/kg	76.5	382
534-52-1	2-Methyl-4,6-dinitrophenol	U	382	ug/kg	76.5	382
100-01-6	4-Nitroaniline	U	382	ug/kg	115	382
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	382	ug/kg	76.5	382
122-66-7	Azobenzene	U	382	ug/kg	76.5	382
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	382	ug/kg	76.5	382
118-74-1	Hexachlorobenzene	U	382	ug/kg	76.5	382
85-01-8	Phenanthrene	U	38.2	ug/kg	11.5	38.2
120-12-7	Anthracene	U	38.2	ug/kg	7.65	38.2
84-74-2	Di-n-butylphthalate	U	382	ug/kg	76.5	382
206-44-0	Fluoranthene	U	38.2	ug/kg	11.5	38.2
85-68-7	Butylbenzylphthalate	U	382	ug/kg	76.5	382
56-55-3	Benzo(a)anthracene	U	38.2	ug/kg	11.5	38.2
91-94-1	3,3'-Dichlorobenzidine	U	382	ug/kg	115	382
218-01-9	Chrysene	U	38.2	ug/kg	11.5	38.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	382	ug/kg	76.5	382
117-84-0	Di-n-octylphthalate	U	382	ug/kg	76.5	382
205-99-2	Benzo(b)fluoranthene	U	38.2	ug/kg	11.5	38.2
207-08-9	Benzo(k)fluoranthene	U	38.2	ug/kg	11.5	38.2
50-32-8	Benzo(a)pyrene	U	38.2	ug/kg	11.5	38.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	38.2	ug/kg	11.5	38.2
53-70-3	Dibenzo(a,h)anthracene	U	38.2	ug/kg	11.5	38.2
191-24-2	Benzo(ghi)perylene	U	38.2	ug/kg	11.5	38.2
120-82-1	1,2,4-Trichlorobenzene	U	382	ug/kg	76.5	382

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.05	679	ug/kg		J
	Unknown Aldol Condensate	2.94	468	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434004	Date Received: 02/06/2010 09:15	%Moisture: 13
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8353	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 13:10	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.05 g	Final Volume: 1 mL
Data File: s4b2110.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
7785-70-8	1R-.alpha.-Pinene	3.47	639	ug/kg	95	NJ
498-15-7	Bicyclo[4.1.0]hept-3-ene, 3,7,7-trimethy	3.86	599	ug/kg	97	NJ
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.75	198	ug/kg	99	NJ

Data File: /chem/MSD4.i/s022110a.b/s4b2110.d
Report Date: 22-Feb-2010 08:08

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Data file : /chem/MSD4.i/s022110a.b/s4b2110.d
Lab Smp Id: 246434004 Client Smp ID: RE15-10-8353
Inj Date : 21-FEB-2010 13:10
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |246434004|951989|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1620.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.05000	weight of sample
M	12.99810	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
	MASS							(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152		3.898	3.903	(1.000)	138661		40.0000	
* 29 Naphthalene-d8	136		4.764	4.770	(1.000)	524115		40.0000	
* 46 Acenaphthene-d10	164		6.021	6.027	(1.000)	290835		40.0000	
* 67 Phenanthrene-d10	188		7.011	7.016	(1.000)	474913		40.0000	
* 91 Chrysene-d12	240		8.696	8.717	(1.000)	435262		40.0000	
* 98 Perylene-d12	264		10.215	10.236	(1.000)	398946		40.0000	
\$ 3 2-Fluorophenol	112		3.096	3.090	(0.794)	254173		64.3294	2460
\$ 5 Phenol-d5	99		3.609	3.614	(0.926)	326173		65.7111	2510
\$ 20 Nitrobenzene-d5	82		4.262	4.267	(0.894)	143772		35.7215	1370
\$ 39 2-Fluorobiphenyl	172		5.508	5.513	(0.915)	240547		32.0325	1220
\$ 60 2,4,6-Tribromophenol	329		6.556	6.561	(1.089)	76731		84.3601	3230
\$ 81 p-Terphenyl-d14	244		7.931	7.941	(0.912)	265484		39.0183	1490

ION RATIO REPORT

SV REPORT

Data file: s4b2110.d

Report Date: 02/22/2010 07:41

Lab. ID: 246434004

SampleType: SAMPLE

Injection Date: 21-FEB-2010 13:10

Operator: JMB3

Instrument: MSD4.i

Sample Info: |246434004|951989|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01|

Comment:

Method used: /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1620

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4 Aniline		CAS#: 62-53-3				
66	14240	3.61	3.69	80-120	100	(T)
93	707	3.58	3.69	455-515	5	(QT)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	18895	4.26	4.14	80-120	100	(T)
42	8705	4.26	4.14	24- 84	46	(T)

27 Benzoic acid		CAS#: 65-85-0				
105	155	4.57	4.55	80-120	100	()
122	973	4.50	4.55	40-100	625	(Q)
77	484	4.55	4.55	39- 99	311	(Q)

43 Dimethylphthalate		CAS#: 131-11-3				
163	51799	6.02	5.79	80-120	100	(T)
164	290835	6.02	5.79	0- 40	561	(QT)

44 2,6-Dinitrotoluene		CAS#: 606-20-2				
165	37737	6.02	5.85	80-120	100	(T)
63	329	6.02	5.85	49-109	1	(QT)

50 2,4-Dinitrotoluene		CAS#: 121-14-2				
165	37737	6.02	6.13	80-120	100	(T)
89	418	6.02	6.13	52-112	1	(QT)
63	329	6.02	6.13	19- 79	1	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
53 Fluorene			CAS#: 86-73-7			
166	3181	6.56	6.40	80-120	100	(T)
165	3321	6.56	6.40	59-119	104	(T)
167	1091	6.56	6.40	0- 44	34	(T)

Q qualifier indicates ion failed ratio requirement

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Data file : /chem/MSD4.i/s022110a.b/s4b2110.d
 Lab Smp Id: 246434004 Client Smp ID: RE15-10-8353
 Inj Date : 21-FEB-2010 13:10
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |246434004|951989|1|SVM|1|LANL
 Misc Info : |MSD8270_S|WBN100205-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
 Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
 Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1620.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.05000	weight of sample
M	12.99810	% moisture

Cpnd Variable

Local Compound Variable

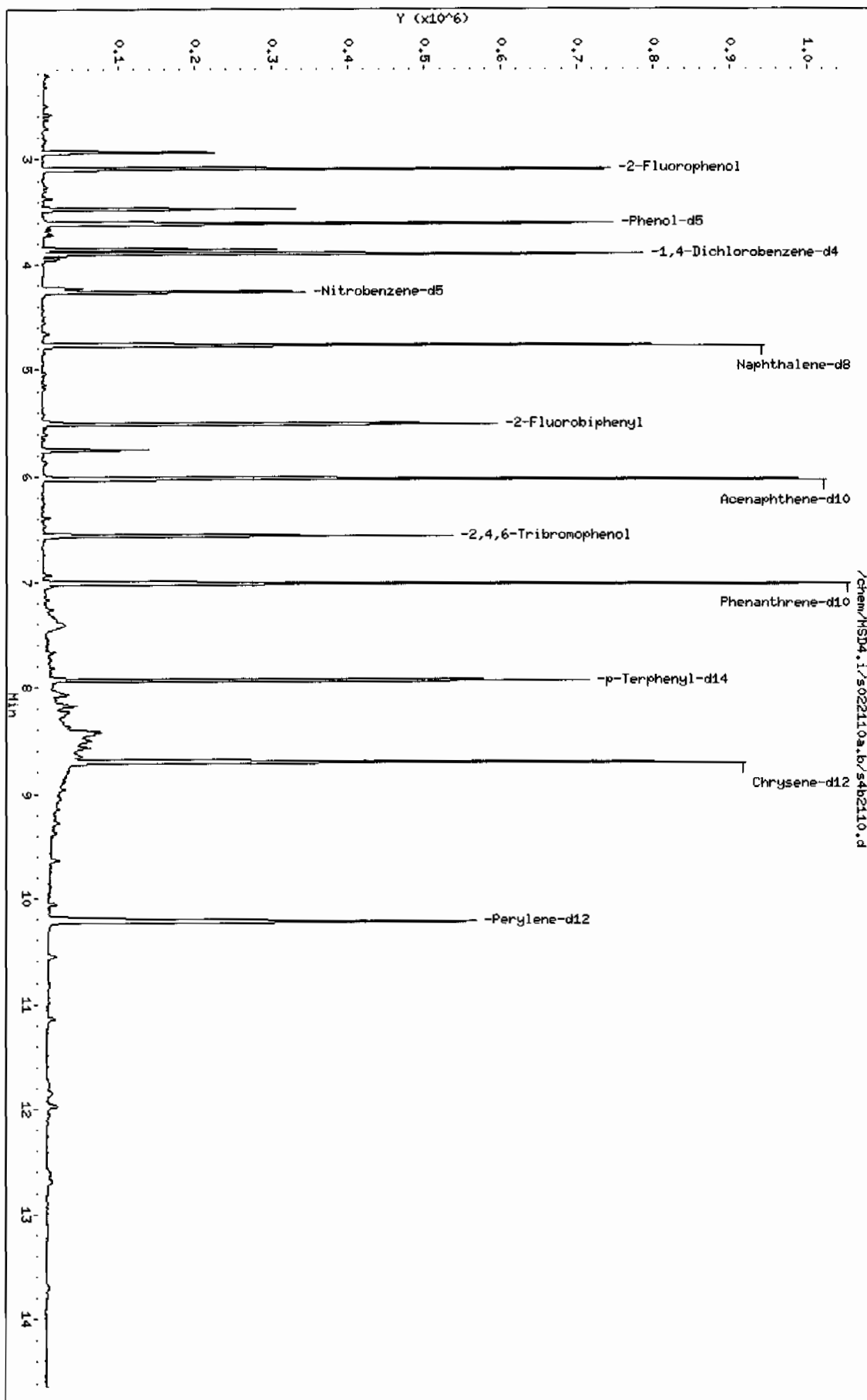
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.898	842988	40.000
* 46 Acenaphthene-d10	6.021	1223032	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ui)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown					CAS #:		
2.053	374192	17.7554807	679	0		0	10

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
====	====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate					CAS #:		
2.935	258082	12.2460371	468	0		0	10
1R-.alpha.-Pinene					CAS #: 7785-70-8		
3.470	352063	16.7054482	639	95	NIST05.L	15188	10
Bicyclo[4.1.0]hept-3-ene, 3,7,7-trimethy					CAS #: 498-15-7		
3.855	330083	15.6625113	599	97	NIST05.L	15369	10
1,4-Methanoazulene, decahydro-4,8,8-trim					CAS #: 475-20-7		
5.749	158413	5.18100016	198	99	NIST05.L	60018	46

Data File: /chem/HSD4.i/5022110a.b/s4b2110.d
Date : 21-FEB-2010 13:10
Client ID: RE15-10-8353
Sample Info: 1246434004195198911SVH11LRLN
Volume Injected (uL): 0.5
Column phase: 3uM DB-SHS

Instrument: HSD4.i
Operator: JMB3
Column diameter: 0.20



Date : 21-FEB-2010 13:10

Client ID: RE15-10-8353

Instrument: HSD4.i

Sample Info: I2464340041951989111SVH111LANL

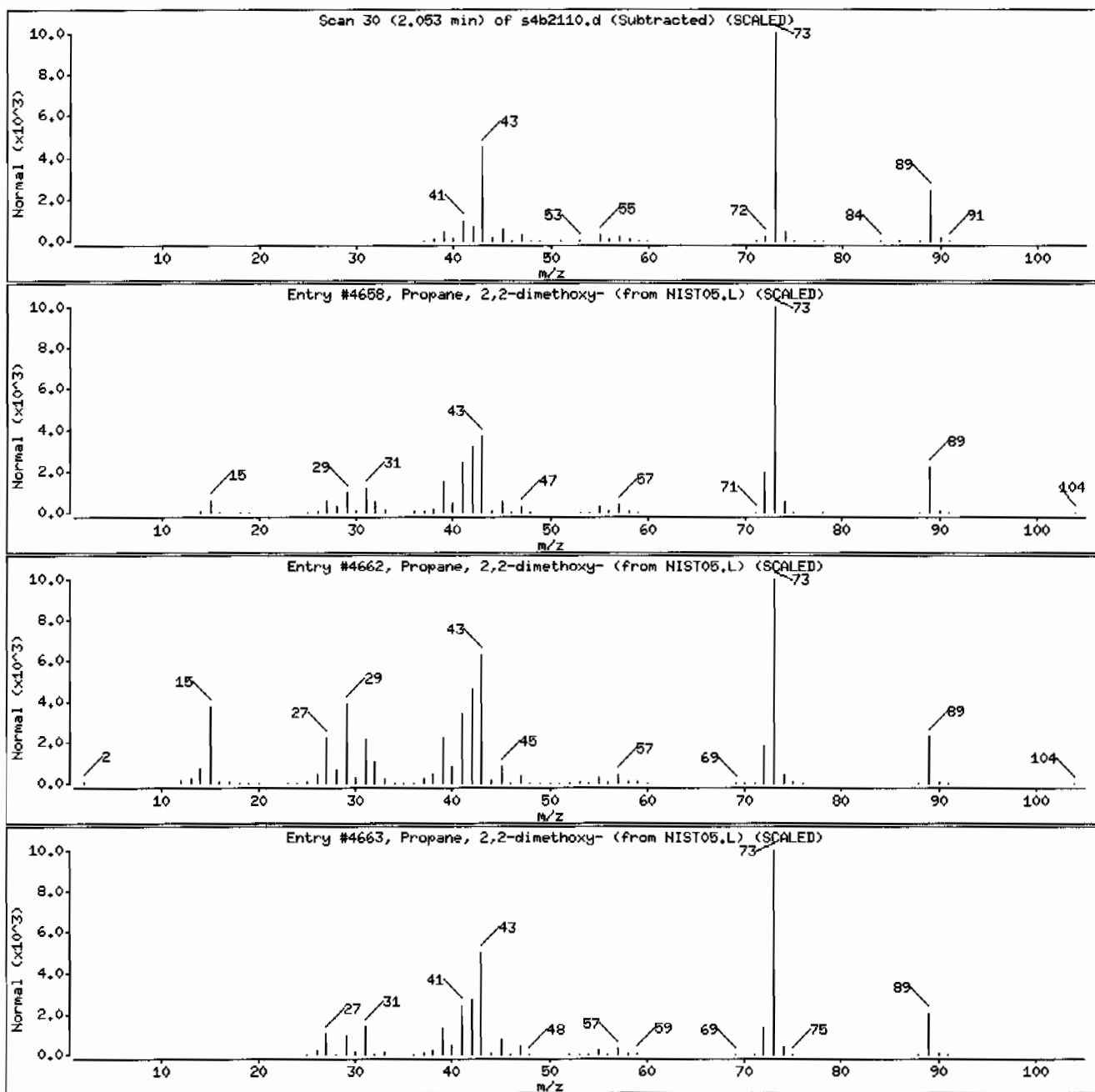
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4658	50	C5H12O2	104
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4662	9	C5H12O2	104
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4663	9	C5H12O2	104



Date : 21-FEB-2010 13:10

Client ID: RE15-10-8353

Instrument: MSD4.i

Sample Info: 1246434004195198911SVH111LANL

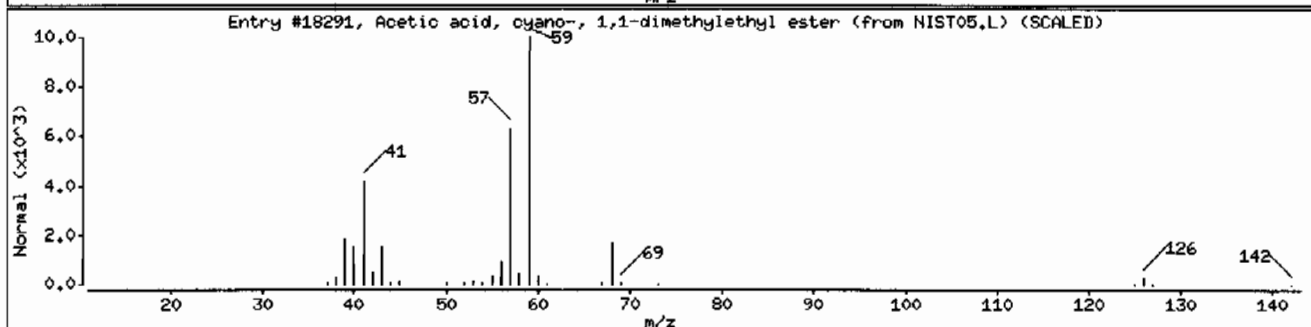
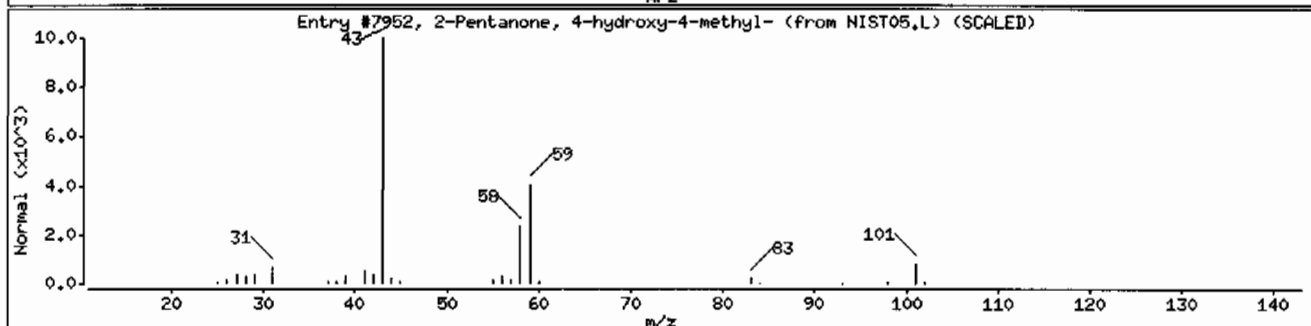
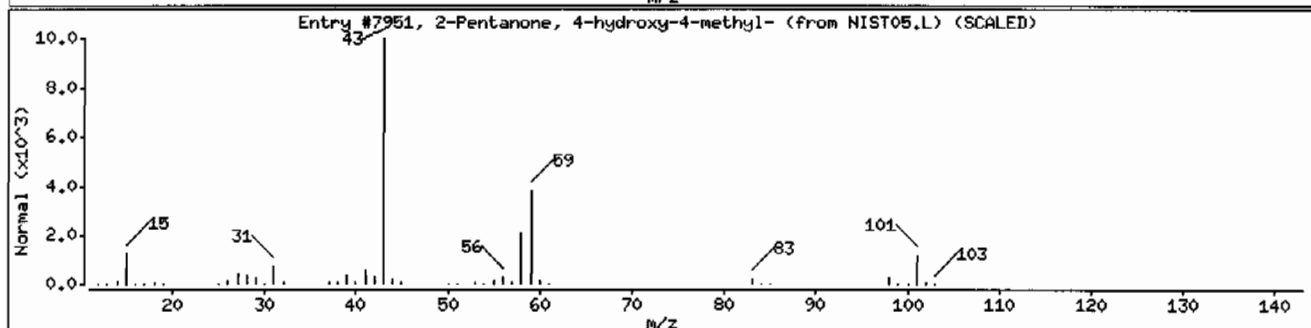
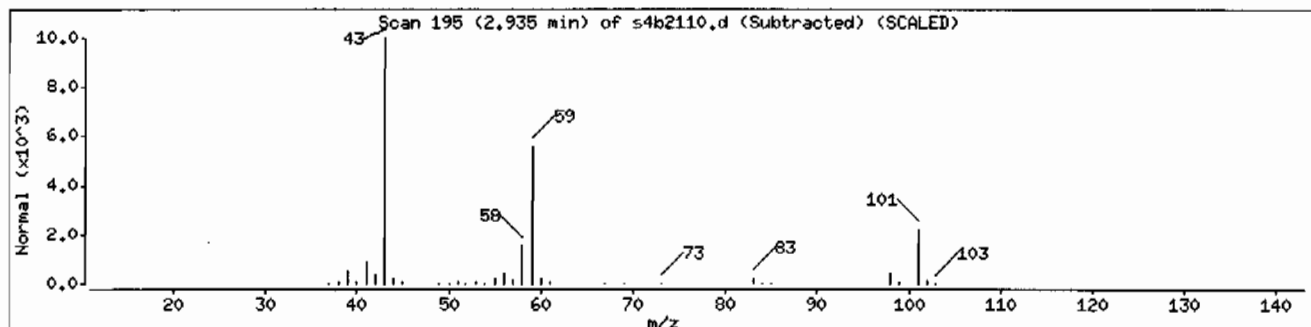
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	39	C6H12O2	116
Acetic acid, cyano-, 1,1-dimethylethyl e	1116-98-9	NIST05.L	18291	17	C7H11NO2	141



Date : 21-FEB-2010 13:10

Client ID: RE15-10-8353

Instrument: MSD4.i

Sample Info: I2464340041951989111SVH111LANL

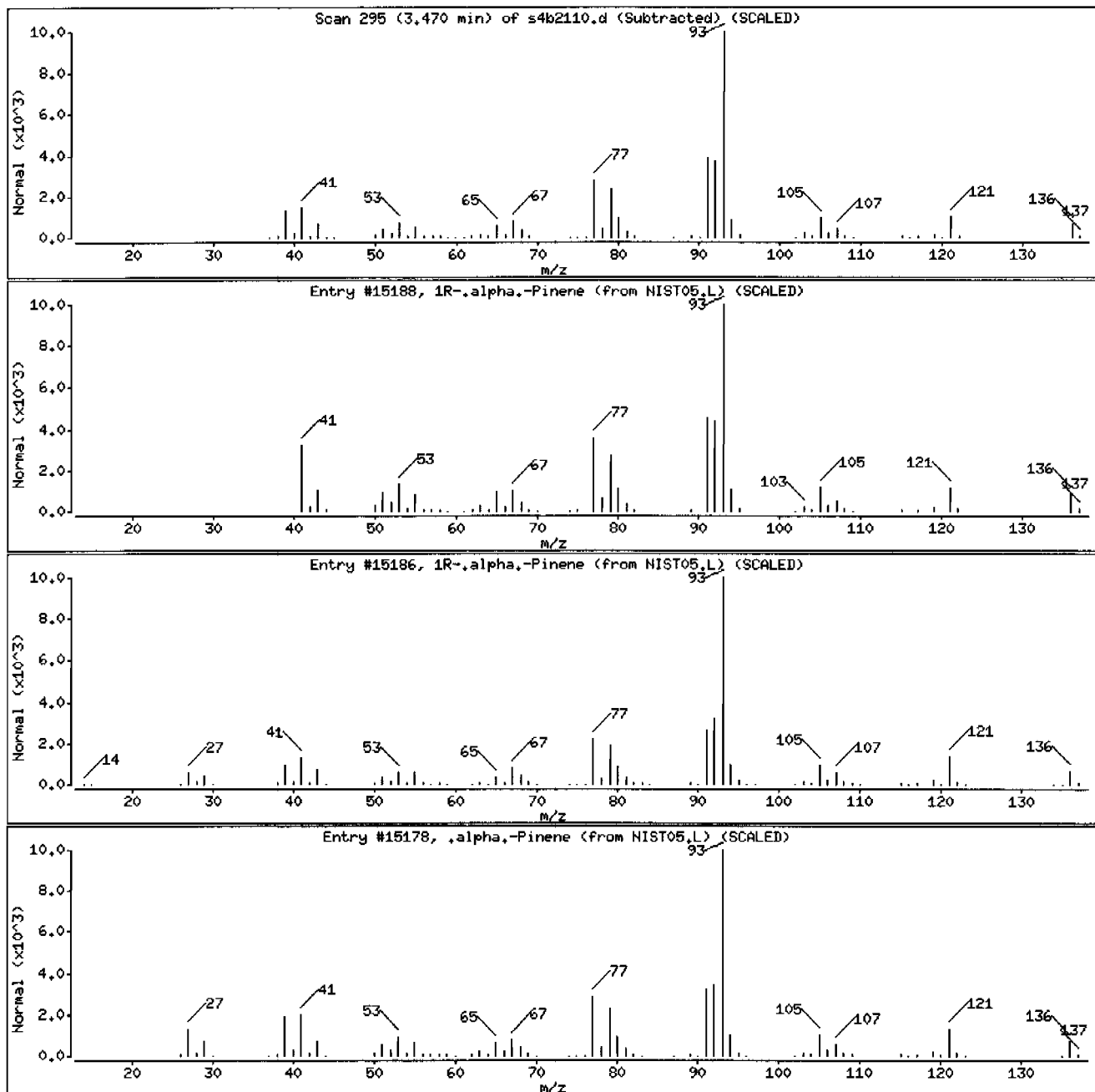
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1R-.alpha.-Pinene	7785-70-8	NIST05.L	15188	95	C10H16	136
1R-.alpha.-Pinene	7785-70-8	NIST05.L	15186	95	C10H16	136
.alpha.-Pinene	80-56-8	NIST05.L	15178	95	C10H16	136



Date: 21-FEB-2010 13:10

Client ID: RE15-10-8353

Instrument: MSD4.i

Sample Info: 1246434004195198911ISVH11ILANL

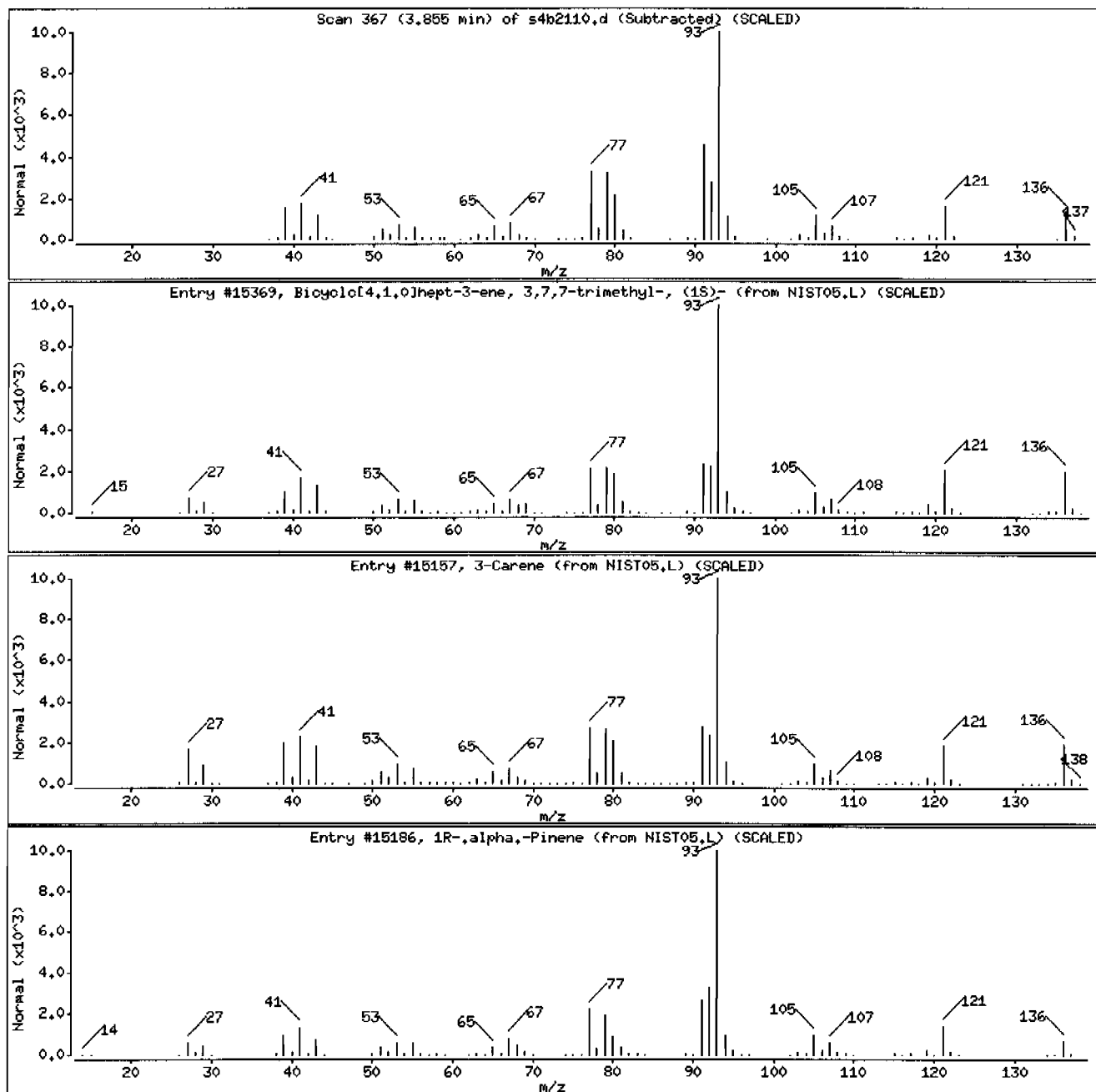
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Bicyclo[4.1.0]hept-3-ene, 3,7,7-trimethyl	498-15-7	NIST05.L	15369	97	C10H16	136
3-Carene	13466-78-9	NIST05.L	15157	95	C10H16	136
1R-,alpha.-Pinene	7785-70-8	NIST05.L	15186	95	C10H16	136



Date : 21-FEB-2010 13:10

Client ID: RE15-10-8353

Instrument: MSD4.i

Sample Info: 12464340041951989111SVH111LANL

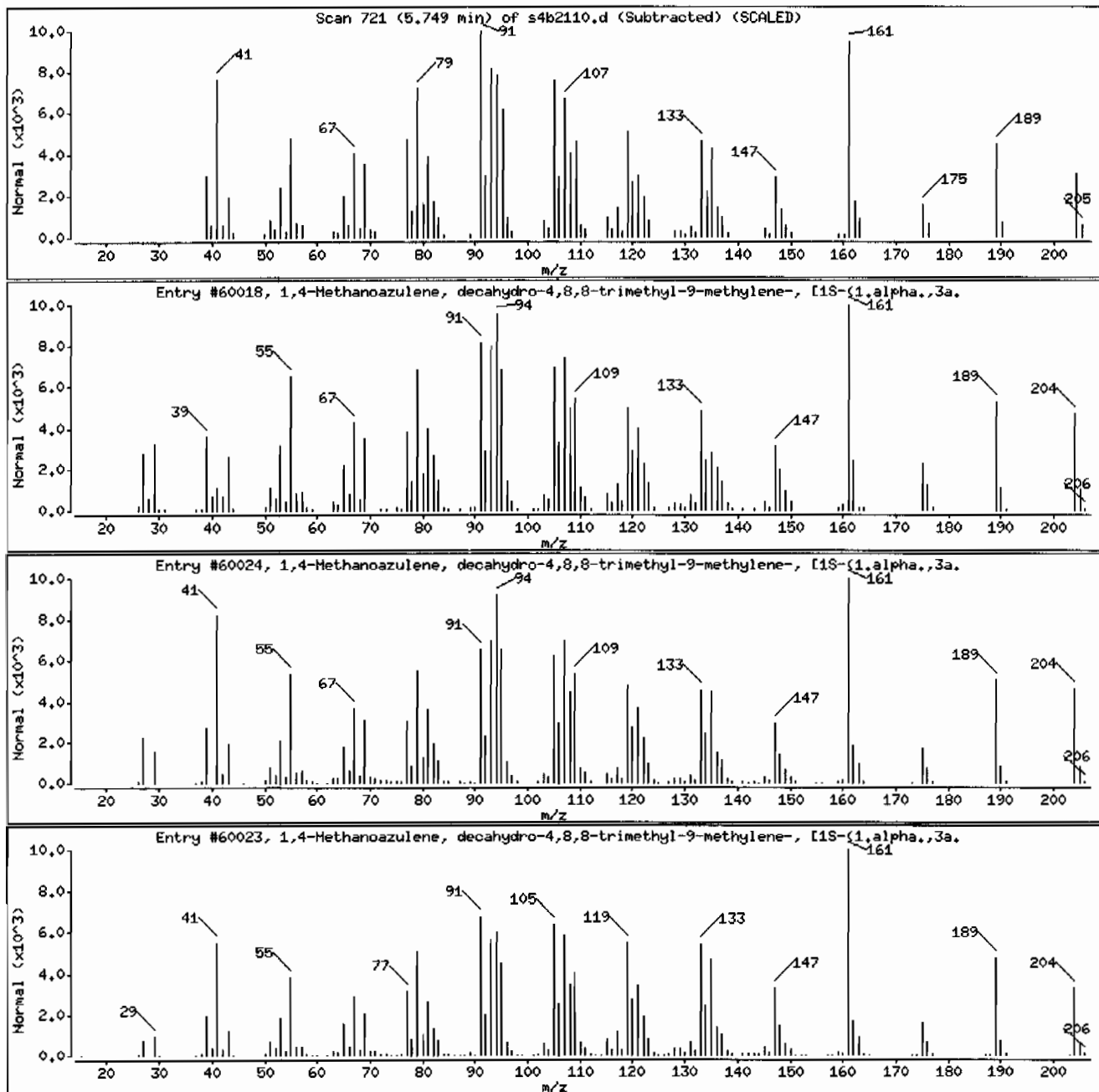
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60018	99	C ₁₅ H ₂₄	204
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60024	99	C ₁₅ H ₂₄	204
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60023	99	C ₁₅ H ₂₄	204



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434002	Date Received: 02/06/2010 09:15	%Moisture: 22
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8354	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/20/2010 19:58	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.03 g	Final Volume: 1 mL
Data File: s4b2026.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	427	ug/kg	85.4	427
108-95-2	Phenol	U	427	ug/kg	85.4	427
95-57-8	2-Chlorophenol	U	427	ug/kg	85.4	427
106-46-7	1,4-Dichlorobenzene	U	427	ug/kg	85.4	427
621-64-7	N-Nitrosodipropylamine	U	427	ug/kg	85.4	427
59-50-7	4-Chloro-3-methylphenol	U	427	ug/kg	85.4	427
83-32-9	Acenaphthene	U	42.7	ug/kg	14.1	42.7
121-14-2	2,4-Dinitrotoluene	U	427	ug/kg	42.7	427
100-02-7	4-Nitrophenol	U	427	ug/kg	141	427
87-86-5	Pentachlorophenol	U	427	ug/kg	107	427
129-00-0	Pyrene	U	42.7	ug/kg	12.8	42.7
110-86-1	Pyridine	U	427	ug/kg	85.4	427
62-53-3	Aniline	U	427	ug/kg	128	427
111-44-4	bis(2-Chloroethyl) ether	U	427	ug/kg	85.4	427
541-73-1	1,3-Dichlorobenzene	U	427	ug/kg	85.4	427
100-51-6	Benzyl alcohol	U	427	ug/kg	128	427
95-50-1	1,2-Dichlorobenzene	U	427	ug/kg	85.4	427
108-60-1	bis(2-Chloroisopropyl)ether	U	427	ug/kg	85.4	427
95-48-7	o-Cresol	U	427	ug/kg	85.4	427
65794-96-9	m,p-Cresols	U	427	ug/kg	128	427
67-72-1	Hexachloroethane	U	427	ug/kg	85.4	427
98-95-3	Nitrobenzene	U	427	ug/kg	85.4	427
78-59-1	Isophorone	U	427	ug/kg	85.4	427
88-75-5	2-Nitrophenol	U	427	ug/kg	85.4	427
105-67-9	2,4-Dimethylphenol	U	427	ug/kg	149	427
111-91-1	bis(2-Chloroethoxy)methane	U	427	ug/kg	85.4	427
120-83-2	2,4-Dichlorophenol	U	427	ug/kg	85.4	427
65-85-0	Benzoic acid	U	854	ug/kg	214	854
91-20-3	Naphthalene	U	42.7	ug/kg	12.8	42.7
106-47-8	4-Chloroaniline	U	427	ug/kg	85.4	427
87-68-3	Hexachlorobutadiene	U	427	ug/kg	85.4	427
91-57-6	2-Methylnaphthalene	U	42.7	ug/kg	8.54	42.7
77-47-4	Hexachlorocyclopentadiene	U	427	ug/kg	85.4	427
88-06-2	2,4,6-Trichlorophenol	U	427	ug/kg	85.4	427
95-95-4	2,4,5-Trichlorophenol	U	427	ug/kg	85.4	427
91-58-7	2-Chloronaphthalene	U	42.7	ug/kg	14.1	42.7
88-74-4	2-Nitroaniline	U	427	ug/kg	85.4	427
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	427	ug/kg	85.4	427

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434002	Date Received: 02/06/2010 09:15	%Moisture: 22
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8354	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/20/2010 19:58	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.03 g	Final Volume: 1 mL
Data File: s4b2026.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	427	ug/kg	85.4	427
606-20-2	2,6-Dinitrotoluene	U	427	ug/kg	42.7	427
208-96-8	Acenaphthylene	U	42.7	ug/kg	12.8	42.7
51-28-5	2,4-Dinitrophenol	U	854	ug/kg	162	854
132-64-9	Dibenzofuran	U	427	ug/kg	85.4	427
84-66-2	Diethylphthalate	U	427	ug/kg	85.4	427
86-73-7	Fluorene	U	42.7	ug/kg	12.8	42.7
7005-72-3	4-Chlorophenylphenylether	U	427	ug/kg	85.4	427
534-52-1	2-Methyl-4,6-dinitrophenol	U	427	ug/kg	85.4	427
100-01-6	4-Nitroaniline	U	427	ug/kg	128	427
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	427	ug/kg	85.4	427
122-66-7	Azobenzene	U	427	ug/kg	85.4	427
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	427	ug/kg	85.4	427
118-74-1	Hexachlorobenzene	U	427	ug/kg	85.4	427
85-01-8	Phenanthrene	U	42.7	ug/kg	12.8	42.7
120-12-7	Anthracene	U	42.7	ug/kg	8.54	42.7
84-74-2	Di-n-butylphthalate	U	427	ug/kg	85.4	427
206-44-0	Fluoranthene	U	42.7	ug/kg	12.8	42.7
85-68-7	Butylbenzylphthalate	U	427	ug/kg	85.4	427
56-55-3	Benzo(a)anthracene	U	42.7	ug/kg	12.8	42.7
91-94-1	3,3'-Dichlorobenzidine	U	427	ug/kg	128	427
218-01-9	Chrysene	U	42.7	ug/kg	12.8	42.7
117-81-7	bis(2-Ethylhexyl)phthalate	U	427	ug/kg	85.4	427
117-84-0	Di-n-octylphthalate	U	427	ug/kg	85.4	427
205-99-2	Benzo(b)fluoranthene	U	42.7	ug/kg	12.8	42.7
207-08-9	Benzo(k)fluoranthene	U	42.7	ug/kg	12.8	42.7
50-32-8	Benzo(a)pyrene	U	42.7	ug/kg	12.8	42.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	42.7	ug/kg	12.8	42.7
53-70-3	Dibenzo(a,h)anthracene	U	42.7	ug/kg	12.8	42.7
191-24-2	Benzo(ghi)perylene	U	42.7	ug/kg	12.8	42.7
120-82-1	1,2,4-Trichlorobenzene	U	427	ug/kg	85.4	427

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.96	278	ug/kg		J

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Data file : /chem/MSD4.i/s022010.b/s4b2026.d
Lab Smp Id: 246434002 Client Smp ID: RE15-10-8354
Inj Date : 20-FEB-2010 19:58
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |246434002|951989|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 08:46 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1620.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.03000	weight of sample
M	22.01850	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4		152	3.930	3.935	(1.000)	163176	40.0000	
* 29 Naphthalene-d8		136	4.797	4.802	(1.000)	655398	40.0000	
* 46 Acenaphthene-d10		164	6.053	6.053	(1.000)	345585	40.0000	
* 67 Phenanthrene-d10		188	7.043	7.043	(1.000)	523430	40.0000	
* 91 Chrysene-d12		240	8.733	8.754	(1.000)	365664	40.0000	
* 98 Perylene-d12		264	10.274	10.300	(1.000)	266275	40.0000	
\$ 3 2-Fluorophenol		112	3.122	3.117	(0.794)	195939	42.1404	1800
\$ 5 Phenol-d5		99	3.641	3.646	(0.926)	252342	43.1995	1840
\$ 20 Nitrobenzene-d5		82	4.288	4.299	(0.894)	104585	20.7800	887
\$ 39 2-Fluorobiphenyl		172	5.540	5.545	(0.915)	195764	21.9389	937
\$ 60 2,4,6-Tribromophenol		329	6.588	6.588	(1.088)	52369	48.4543	2070
\$ 81 p-Terphenyl-d14		244	7.963	7.968	(0.912)	180255	31.5345	1350

ION RATIO REPORT

SV REPORT

Data file: s4b2026.d

Report Date: 02/21/2010 09:00

Lab. ID: 246434002

SampleType: SAMPLE

Injection Date: 20-FEB-2010 19:58

Operator: JMB3

Instrument: MSD4.i

Sample Info: |246434002|951989|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01|

Comment:

Method used: /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1620

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline		CAS#: 62-53-3			
66	9270	3.64	3.72	80-120	100	(T)
93	78	3.69	3.73	486-546	1	(Q)

17	N-Nitrosodipropylamine		CAS#: 621-64-7			
70	13496	4.29	4.18	80-120	100	(T)
42	5718	4.29	4.18	22- 82	42	(T)

43	Dimethylphthalate		CAS#: 131-11-3			
163	60781	6.05	5.82	80-120	100	(T)
164	345585	6.05	5.82	0- 40	569	(QT)

44	2,6-Dinitrotoluene		CAS#: 606-20-2			
165	44434	6.05	5.88	80-120	100	(T)
63	305	6.05	5.88	33- 93	1	(QT)

50	2,4-Dinitrotoluene		CAS#: 121-14-2			
165	44434	6.05	6.17	80-120	100	(T)
89	336	6.05	6.17	41-101	1	(QT)
63	305	6.05	6.17	11- 71	1	(QT)

Q qualifier indicates ion failed ratio requirement

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GEL Laboratories, LLC

Data file : /chem/MSD4.i/s022010.b/s4b2026.d
 Lab Smp Id: 246434002 Client Smp ID: RE15-10-8354
 Inj Date : 20-FEB-2010 19:58
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |246434002|951989|1|SVM|1|LANL
 Misc Info : |MSD8270 S|WBN100205-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
 Meth Date : 21-Feb-2010 08:46 jos00786 Quant Type: ISTD
 Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1620.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.03000	weight of sample
M	22.01850	% moisture

Cpnd Variable

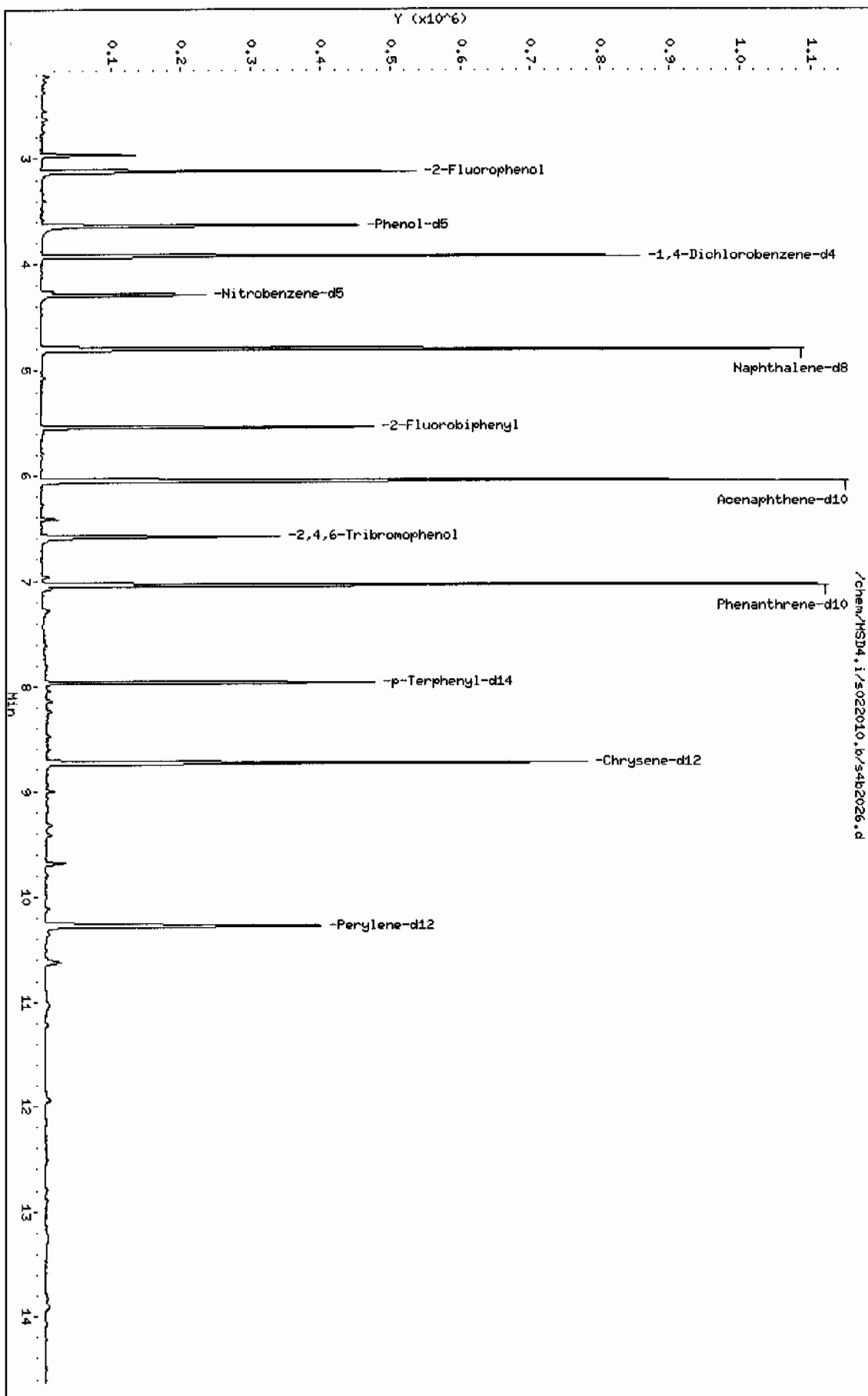
Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.930	953134	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
----	----	-----	-----	----	-----	-----	-----
Unknown Aldol Condensate					CAS #:		
2.962	155060	6.50739070	278	0		0	10

Data File: /chem/MSD4.i/5022010.b/s4b2026.d
 Date : 20-FEB-2010 13:58
 Client ID: RE15-10-8354
 Sample Info: 1246434002195198911.SW11.LANL
 Volume Injected (uL): 0.5
 Column phase: J&W DB-SMS

Instrument: MSD4.i
 Operator: JHB3
 Column diameter: 0.20



Date : 20-FEB-2010 19:58

Client ID: RE15-10-8354

Instrument: MSD4.i

Sample Info: I246434002I95198911ISVH11ILANL

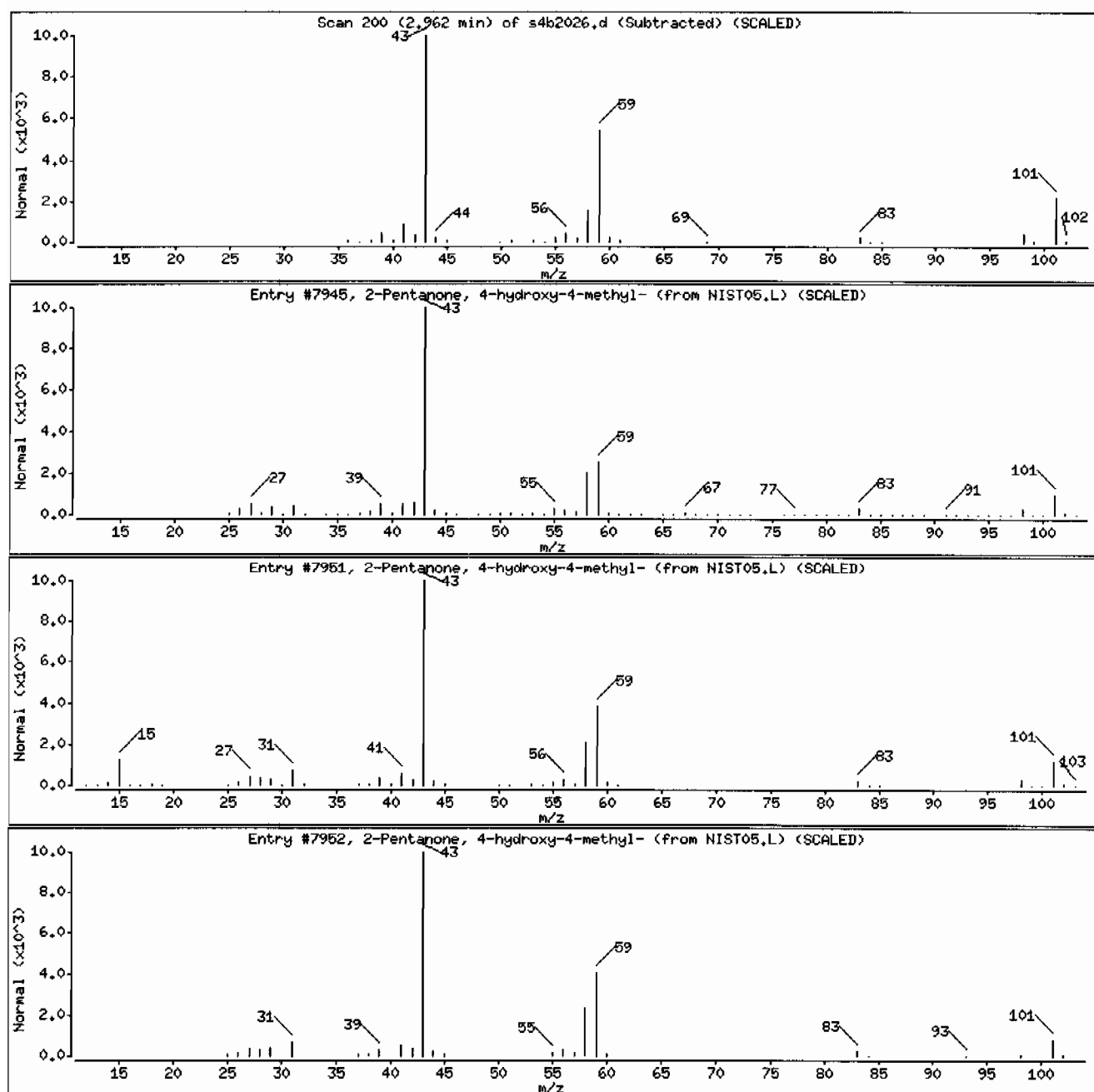
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7945	59	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	39	C6H12O2	116



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434006	Date Received: 02/06/2010 09:15	%Moisture: 12.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8355	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 13:32	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.02 g	Final Volume: 1 mL
Data File: s4b2111.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	382	ug/kg	76.3	382
108-95-2	Phenol	U	382	ug/kg	76.3	382
95-57-8	2-Chlorophenol	U	382	ug/kg	76.3	382
106-46-7	1,4-Dichlorobenzene	U	382	ug/kg	76.3	382
621-64-7	N-Nitrosodipropylamine	U	382	ug/kg	76.3	382
59-50-7	4-Chloro-3-methylphenol	U	382	ug/kg	76.3	382
83-32-9	Acenaphthene	U	38.2	ug/kg	12.6	38.2
121-14-2	2,4-Dinitrotoluene	U	382	ug/kg	38.2	382
100-02-7	4-Nitrophenol	U	382	ug/kg	126	382
87-86-5	Pentachlorophenol	U	382	ug/kg	95.4	382
129-00-0	Pyrene	U	38.2	ug/kg	11.4	38.2
110-86-1	Pyridine	U	382	ug/kg	76.3	382
62-53-3	Aniline	U	382	ug/kg	114	382
111-44-4	bis(2-Chloroethyl) ether	U	382	ug/kg	76.3	382
541-73-1	1,3-Dichlorobenzene	U	382	ug/kg	76.3	382
100-51-6	Benzyl alcohol	U	382	ug/kg	114	382
95-50-1	1,2-Dichlorobenzene	U	382	ug/kg	76.3	382
108-60-1	bis(2-Chloroisopropyl)ether	U	382	ug/kg	76.3	382
95-48-7	o-Cresol	U	382	ug/kg	76.3	382
65794-96-9	m,p-Cresols	U	382	ug/kg	114	382
67-72-1	Hexachloroethane	U	382	ug/kg	76.3	382
98-95-3	Nitrobenzene	U	382	ug/kg	76.3	382
78-59-1	Isophorone	U	382	ug/kg	76.3	382
88-75-5	2-Nitrophenol	U	382	ug/kg	76.3	382
105-67-9	2,4-Dimethylphenol	U	382	ug/kg	134	382
111-91-1	bis(2-Chloroethoxy)methane	U	382	ug/kg	76.3	382
120-83-2	2,4-Dichlorophenol	U	382	ug/kg	76.3	382
65-85-0	Benzoic acid	U	763	ug/kg	191	763
91-20-3	Naphthalene	U	38.2	ug/kg	11.4	38.2
106-47-8	4-Chloroaniline	U	382	ug/kg	76.3	382
87-68-3	Hexachlorobutadiene	U	382	ug/kg	76.3	382
91-57-6	2-Methylnaphthalene	U	38.2	ug/kg	7.63	38.2
77-47-4	Hexachlorocyclopentadiene	U	382	ug/kg	76.3	382
88-06-2	2,4,6-Trichlorophenol	U	382	ug/kg	76.3	382
95-95-4	2,4,5-Trichlorophenol	U	382	ug/kg	76.3	382
91-58-7	2-Chloronaphthalene	U	38.2	ug/kg	12.6	38.2
88-74-4	2-Nitroaniline	U	382	ug/kg	76.3	382
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	382	ug/kg	76.3	382

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434006	Date Received: 02/06/2010 09:15	%Moisture: 12.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8355	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 13:32	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.02 g	Final Volume: 1 mL
Data File: s4b2111.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	382	ug/kg	76.3	382
606-20-2	2,6-Dinitrotoluene	U	382	ug/kg	38.2	382
208-96-8	Acenaphthylene	U	38.2	ug/kg	11.4	38.2
51-28-5	2,4-Dinitrophenol	U	763	ug/kg	145	763
132-64-9	Dibenzofuran	U	382	ug/kg	76.3	382
84-66-2	Diethylphthalate	U	382	ug/kg	76.3	382
86-73-7	Fluorene	U	38.2	ug/kg	11.4	38.2
7005-72-3	4-Chlorophenylphenylether	U	382	ug/kg	76.3	382
534-52-1	2-Methyl-4,6-dinitrophenol	U	382	ug/kg	76.3	382
100-01-6	4-Nitroaniline	U	382	ug/kg	114	382
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	382	ug/kg	76.3	382
122-66-7	Azobenzene	U	382	ug/kg	76.3	382
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	382	ug/kg	76.3	382
118-74-1	Hexachlorobenzene	U	382	ug/kg	76.3	382
85-01-8	Phenanthrene	U	38.2	ug/kg	11.4	38.2
120-12-7	Anthracene	U	38.2	ug/kg	7.63	38.2
84-74-2	Di-n-butylphthalate	U	382	ug/kg	76.3	382
206-44-0	Fluoranthene	U	38.2	ug/kg	11.4	38.2
85-68-7	Butylbenzylphthalate	U	382	ug/kg	76.3	382
56-55-3	Benzo(a)anthracene	U	38.2	ug/kg	11.4	38.2
91-94-1	3,3'-Dichlorobenzidine	U	382	ug/kg	114	382
218-01-9	Chrysene	U	38.2	ug/kg	11.4	38.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	382	ug/kg	76.3	382
117-84-0	Di-n-octylphthalate	U	382	ug/kg	76.3	382
205-99-2	Benzo(b)fluoranthene	U	38.2	ug/kg	11.4	38.2
207-08-9	Benzo(k)fluoranthene	U	38.2	ug/kg	11.4	38.2
50-32-8	Benzo(a)pyrene	U	38.2	ug/kg	11.4	38.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	38.2	ug/kg	11.4	38.2
53-70-3	Dibenzo(a,h)anthracene	U	38.2	ug/kg	11.4	38.2
191-24-2	Benzo(ghi)perylene	U	38.2	ug/kg	11.4	38.2
120-82-1	1,2,4-Trichlorobenzene	U	382	ug/kg	76.3	382

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.06	395	ug/kg		J
	Unknown Aldol Condensate	2.94	423	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434006	Date Received: 02/06/2010 09:15	%Moisture: 12.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8355	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 13:32	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.02 g	Final Volume: 1 mL
Data File: s4b2111.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.75	261	ug/kg	99	NJ

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Data file : /chem/MSD4.i/s022110a.b/s4b2111.d
 Lab Smp Id: 246434006 Client Smp ID: RE15-10-8355
 Inj Date : 21-FEB-2010 13:32
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |246434006|951989|1|SVM|1|LANL
 Misc Info : |MSD8270_S|WBN100205-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
 Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
 Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1620.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.02000	weight of sample
M	12.69240	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4		152	3.898	3.903	(1.000)	140192	40.0000	
* 29 Naphthalene-d8		136	4.764	4.770	(1.000)	543031	40.0000	
* 46 Acenaphthene-d10		164	6.021	6.027	(1.000)	301381	40.0000	
* 67 Phenanthrene-d10		188	7.011	7.016	(1.000)	499315	40.0000	
* 91 Chrysene-d12		240	8.696	8.717	(1.000)	460081	40.0000	
* 98 Perylene-d12		264	10.215	10.236	(1.000)	350530	40.0000	
\$ 3 2-Fluorophenol		112	3.096	3.090	(0.794)	259650	64.9979	2480
\$ 5 Phenol-d5		99	3.609	3.614	(0.926)	341781	68.1035	2600
\$ 20 Nitrobenzene-d5		82	4.262	4.267	(0.894)	150827	36.1690	1380
\$ 39 2-Fluorobiphenyl		172	5.508	5.513	(0.915)	249253	32.0304	1220
\$ 60 2,4,6-Tribromophenol		329	6.556	6.561	(1.089)	79806	84.6705	3230
\$ 81 p-Terphenyl-d14		244	7.931	7.941	(0.912)	287493	39.9736	1520

ION RATIO REPORT

SV REPORT

Data file: s4b2111.d

Report Date: 02/22/2010 07:41

Lab. ID: 246434006

SampleType: SAMPLE

Injection Date: 21-FEB-2010 13:32

Operator: JMB3

Instrument: MSD4.i

Sample Info: |246434006|951989|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01|

Comment:

Method used: /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1620

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline	CAS#: 62-53-3				
66	14346	3.61	3.69	80-120	100	(T)
93	293	3.47	3.69	455-515	2	(QT)

17	N-Nitrosodipropylamine	CAS#: 621-64-7				
70	19693	4.26	4.14	80-120	100	(T)
42	9309	4.26	4.14	24- 84	47	(T)

27	Benzoic acid	CAS#: 65-85-0				
105	607	4.50	4.55	80-120	100	()
122	390	4.51	4.55	40-100	64	()
77	713	4.50	4.55	39- 99	117	(Q)

43	Dimethylphthalate	CAS#: 131-11-3				
163	53788	6.02	5.79	80-120	100	(T)
164	301381	6.02	5.79	0- 40	560	(QT)

44	2,6-Dinitrotoluene	CAS#: 606-20-2				
165	38707	6.02	5.85	80-120	100	(T)
63	291	6.02	5.85	49-109	1	(QT)

50	2,4-Dinitrotoluene	CAS#: 121-14-2				
165	38707	6.02	6.13	80-120	100	(T)
89	444	6.02	6.13	52-112	1	(QT)
63	291	6.02	6.13	19- 79	1	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
53	Fluorene		CAS#:	86-73-7		
166	3288	6.56	6.40	80-120	100	(T)
165	3526	6.56	6.40	59-119	107	(T)
167	1149	6.56	6.40	0- 44	35	(T)

Q qualifier indicates ion failed ratio requirement

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Data file : /chem/MSD4.i/s022110a.b/s4b2111.d
 Lab Smp Id: 246434006 Client Smp ID: RE15-10-8355
 Inj Date : 21-FEB-2010 13:32
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |246434006|951989|1|SVM|1|LANL
 Misc Info : |MSD8270 S|WBN100205-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
 Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
 Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1620.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf *Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.02000	weight of sample
M	12.69240	% moisture

Cpnd Variable

Local Compound Variable

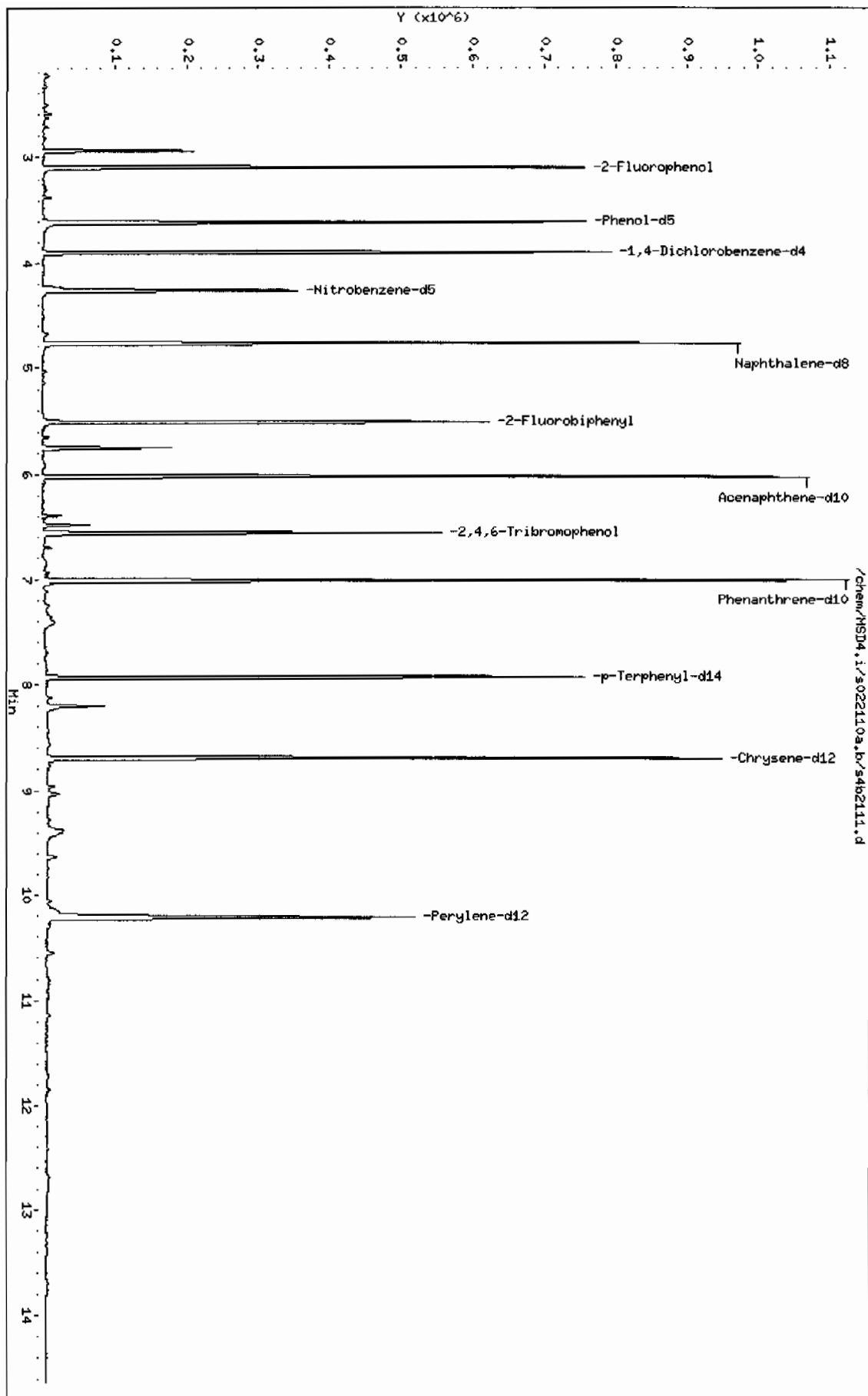
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.898	861936	40.000
* 46 Acenaphthene-d10	6.021	1254100	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown				CAS #:			
2.063	223322	10.363/293	395	0		0	10

RT	CONCENTRATIONS			QUAL	QUANT		
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	CPND #
----	----	-----	-----	----	-----	-----	-----
Unknown Aldol Condensate					CAS #:		
2.935	238647	11.0749223	422	0		0	10
1,4-Methanoazulene, decahydro-4,8,8-trim					CAS #: 475-20-7		
5.749	214537	6.84272730	261	99	NIST05.L	60023	46

Data File: /chem/HSD4.i/s022110a.b/s4b2111.d
Date: 21-FEB-2010 13:32
Client ID: RE15-10-6335
Sample Info: 124634006195236911SVH11L1ANL
Volume Injected (uL): 0.5
Column phase: J&M DB-SMS

Instrument: HSD4.i
Operator: JHB3
Column diameter: 0.20



Date : 21-FEB-2010 13:32

Client ID: RE15-10-8355

Instrument: MSD4.i

Sample Info: 12464340061951989111SVH111LANL

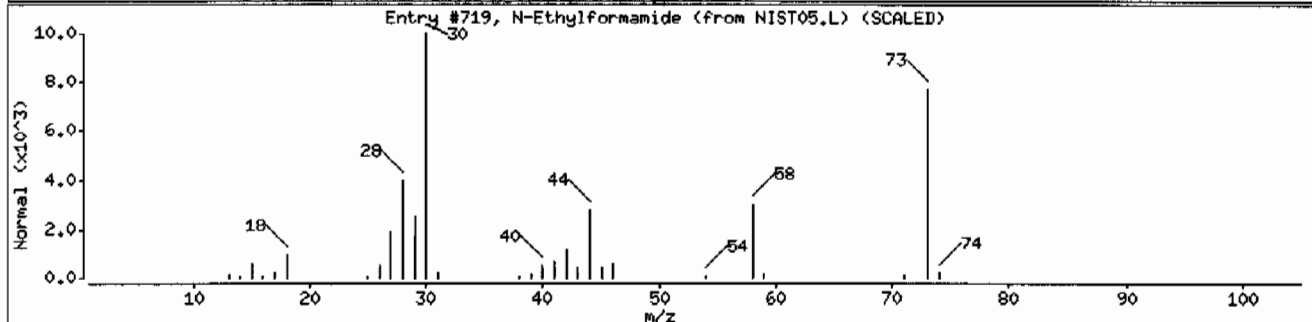
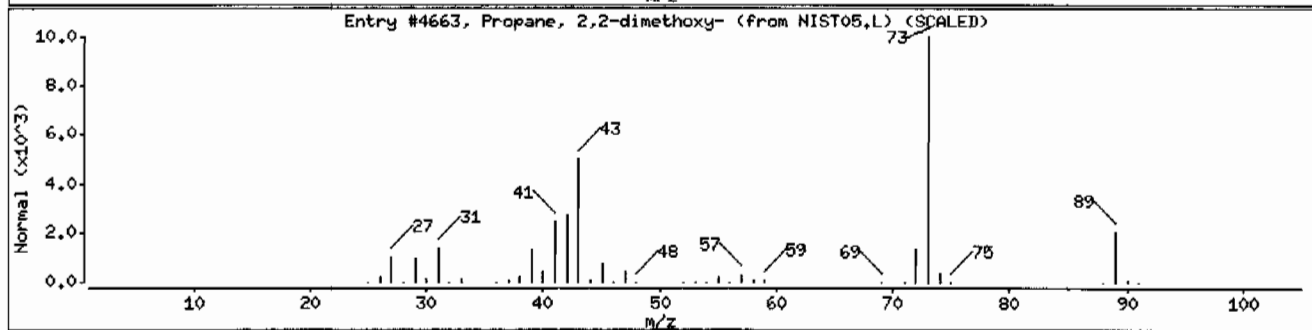
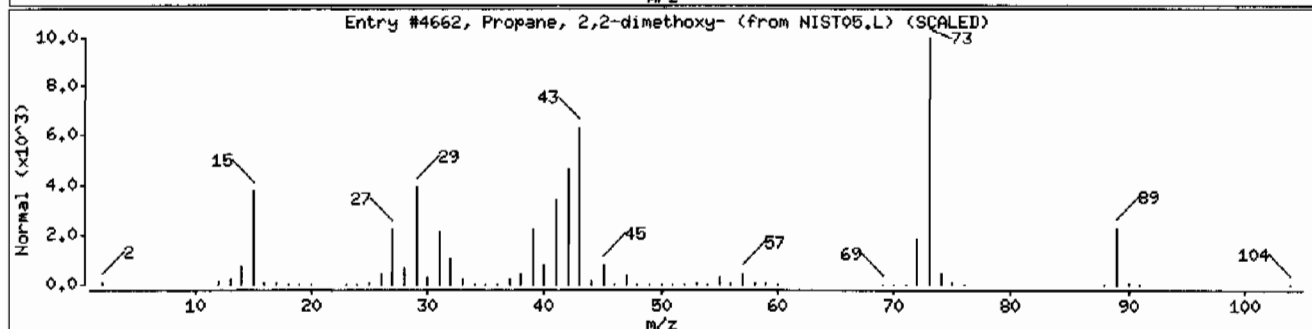
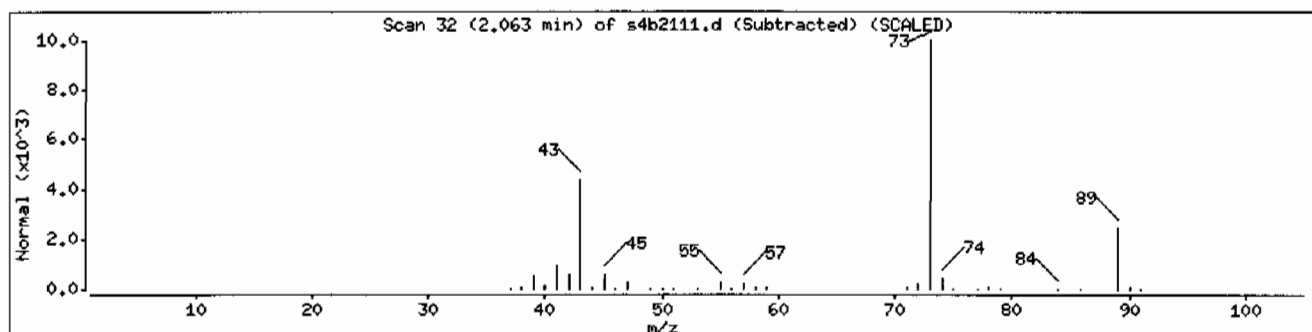
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4662	9	C5H12O2	104
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4663	9	C5H12O2	104
N-Ethylformamide	627-45-2	NIST05.L	719	7	C3H7NO	73



Date : 21-FEB-2010 13:32

Client ID: RE15-10-8355

Instrument: MSD4.i

Sample Info: I246434006195198911ISVH11ILANL

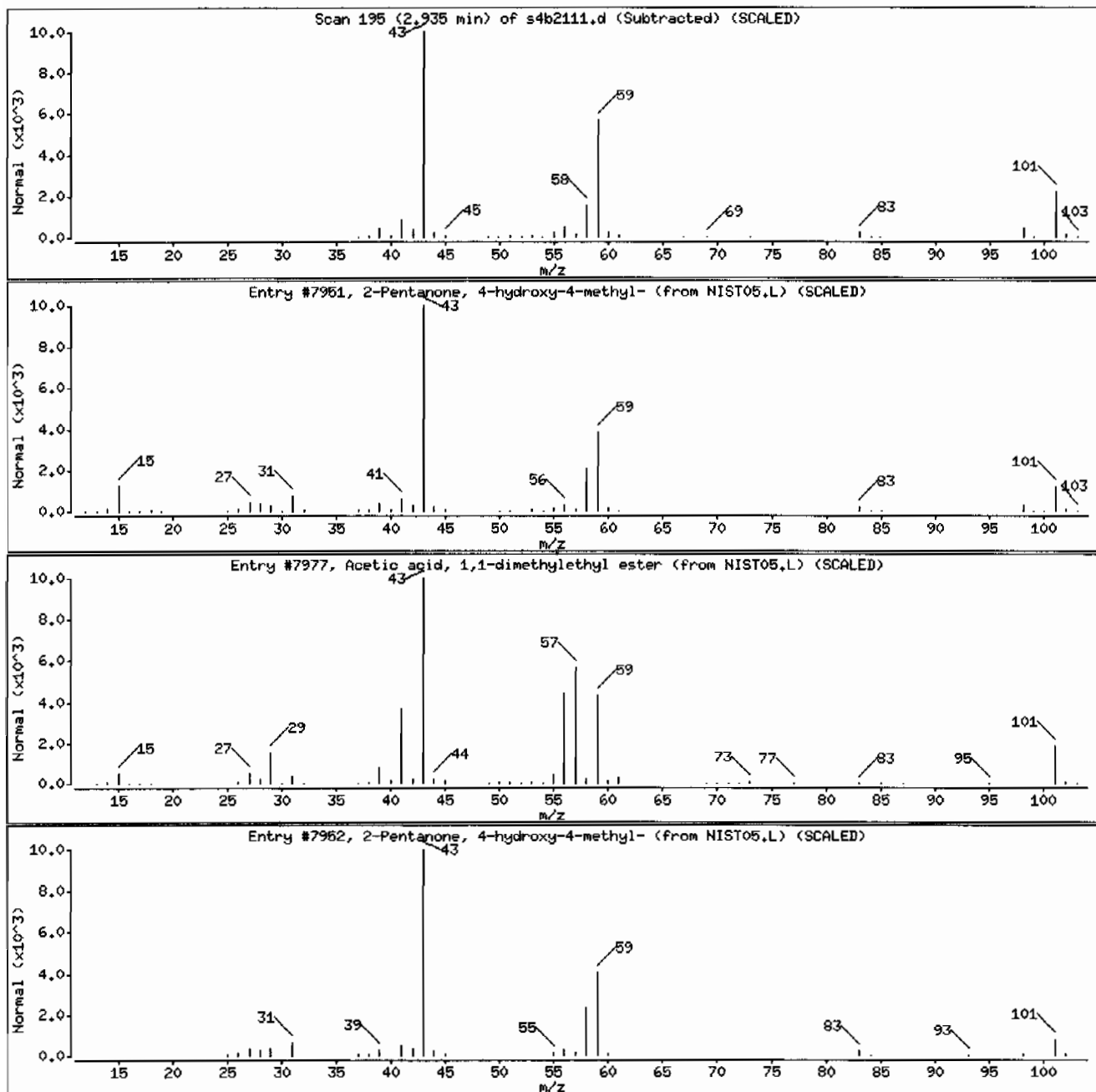
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7961	50	C ₆ H ₁₂ O ₂	116
Acetic acid, 1,1-dimethylethyl ester	540-88-5	NIST05.L	7977	39	C ₆ H ₁₂ O ₂	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7962	39	C ₆ H ₁₂ O ₂	116



Date: 21-FEB-2010 13:32

Client ID: RE15-10-8355

Instrument: MSD4.i

Sample Info: 1246434006195198911(SVM11)LANL

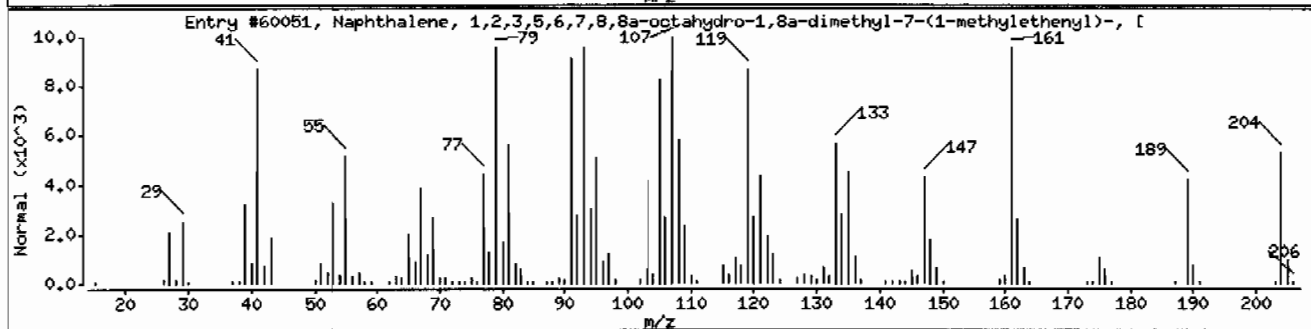
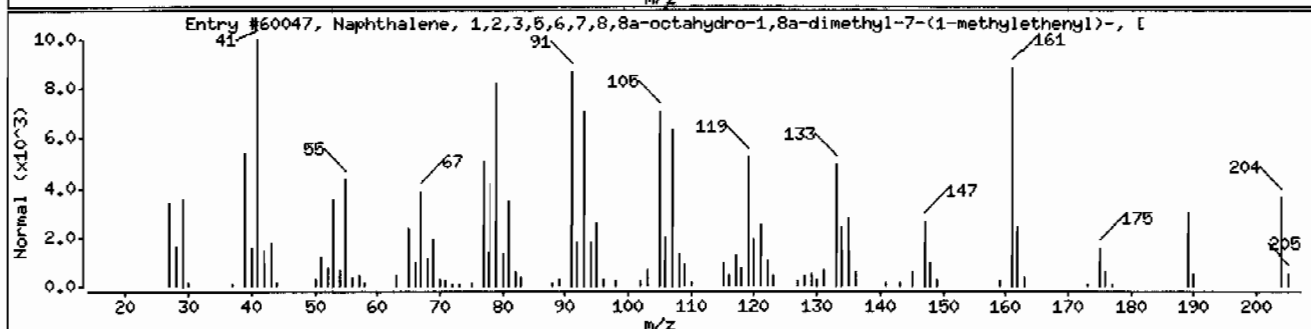
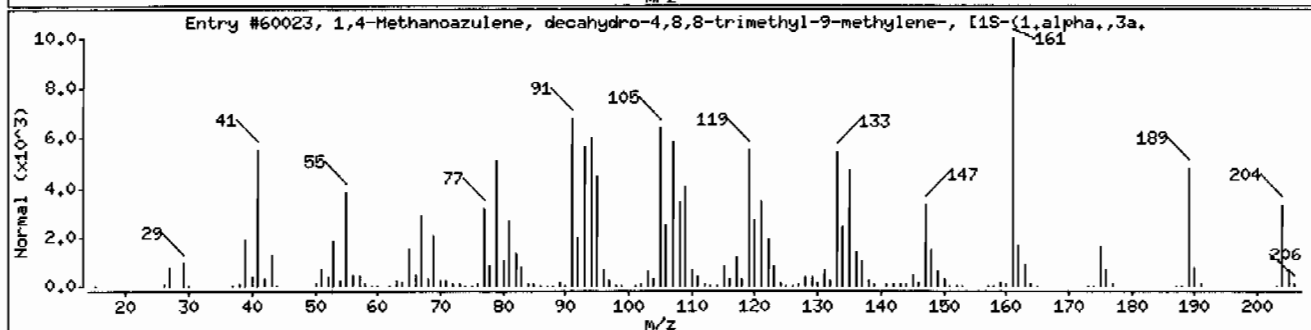
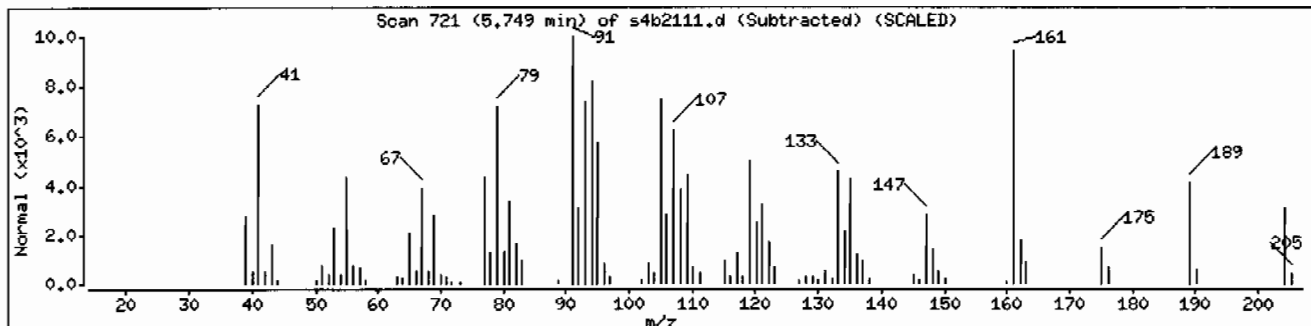
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methanoazulene, decahydro-4,8,8-trimethyl-9-methylene-, [1S-(1.alpha.,3a,	475-20-7	NIST05.L	60023	99	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60047	96	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	10219-75-7	NIST05.L	60051	95	C15H24	204



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434003

Client ID: RE15-10-8356
Batch ID: 951989
Run Date: 02/20/2010 20:20
Prep Date: 02/11/2010 22:25
Data File: s4b2027.d

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.14 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 14.7
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	389	ug/kg	77.8	389
108-95-2	Phenol	U	389	ug/kg	77.8	389
95-57-8	2-Chlorophenol	U	389	ug/kg	77.8	389
106-46-7	1,4-Dichlorobenzene	U	389	ug/kg	77.8	389
621-64-7	N-Nitrosodipropylamine	U	389	ug/kg	77.8	389
59-50-7	4-Chloro-3-methylphenol	U	389	ug/kg	77.8	389
83-32-9	Acenaphthene	U	38.9	ug/kg	12.8	38.9
121-14-2	2,4-Dinitrotoluene	U	389	ug/kg	38.9	389
100-02-7	4-Nitrophenol	U	389	ug/kg	128	389
87-86-5	Pentachlorophenol	U	389	ug/kg	97.2	389
129-00-0	Pyrene	U	38.9	ug/kg	11.7	38.9
110-86-1	Pyridine	U	389	ug/kg	77.8	389
62-53-3	Aniline	U	389	ug/kg	117	389
111-44-4	bis(2-Chloroethyl) ether	U	389	ug/kg	77.8	389
541-73-1	1,3-Dichlorobenzene	U	389	ug/kg	77.8	389
100-51-6	Benzyl alcohol	U	389	ug/kg	117	389
95-50-1	1,2-Dichlorobenzene	U	389	ug/kg	77.8	389
108-60-1	bis(2-Chloroisopropyl)ether	U	389	ug/kg	77.8	389
95-48-7	o-Cresol	U	389	ug/kg	77.8	389
65794-96-9	m,p-Cresols	U	389	ug/kg	117	389
67-72-1	Hexachloroethane	U	389	ug/kg	77.8	389
98-95-3	Nitrobenzene	U	389	ug/kg	77.8	389
78-59-1	Isophorone	U	389	ug/kg	77.8	389
88-75-5	2-Nitrophenol	U	389	ug/kg	77.8	389
105-67-9	2,4-Dimethylphenol	U	389	ug/kg	136	389
111-91-1	bis(2-Chloroethoxy)methane	U	389	ug/kg	77.8	389
120-83-2	2,4-Dichlorophenol	U	389	ug/kg	77.8	389
65-85-0	Benzoic acid	U	778	ug/kg	194	778
91-20-3	Naphthalene	U	38.9	ug/kg	11.7	38.9
106-47-8	4-Chloroaniline	U	389	ug/kg	77.8	389
87-68-3	Hexachlorobutadiene	U	389	ug/kg	77.8	389
91-57-6	2-Methylnaphthalene	U	38.9	ug/kg	7.78	38.9
77-47-4	Hexachlorocyclopentadiene	U	389	ug/kg	77.8	389
88-06-2	2,4,6-Trichlorophenol	U	389	ug/kg	77.8	389
95-95-4	2,4,5-Trichlorophenol	U	389	ug/kg	77.8	389
91-58-7	2-Chloronaphthalene	U	38.9	ug/kg	12.8	38.9
88-74-4	2-Nitroaniline	U	389	ug/kg	77.8	389
99-09-2	<i>o</i> -Nitroaniline					
	3-Nitroaniline	U	389	ug/kg	77.8	389

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434003	Date Received: 02/06/2010 09:15	%Moisture: 14.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8356	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.1	Dilution: 1
Run Date: 02/20/2010 20:20	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.14 g	Final Volume: 1 mL
Data File: s4b2027.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	389	ug/kg	77.8	389
606-20-2	2,6-Dinitrotoluene	U	389	ug/kg	38.9	389
208-96-8	Acenaphthylene	U	38.9	ug/kg	11.7	38.9
51-28-5	2,4-Dinitrophenol	U	778	ug/kg	148	778
132-64-9	Dibenzofuran	U	389	ug/kg	77.8	389
84-66-2	Diethylphthalate	U	389	ug/kg	77.8	389
86-73-7	Fluorene	U	38.9	ug/kg	11.7	38.9
7005-72-3	4-Chlorophenylphenylether	U	389	ug/kg	77.8	389
534-52-1	2-Methyl-4,6-dinitrophenol	U	389	ug/kg	77.8	389
100-01-6	4-Nitroaniline	U	389	ug/kg	117	389
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	389	ug/kg	77.8	389
122-66-7	Azobenzene	U	389	ug/kg	77.8	389
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	389	ug/kg	77.8	389
118-74-1	Hexachlorobenzene	U	389	ug/kg	77.8	389
85-01-8	Phenanthrene	U	38.9	ug/kg	11.7	38.9
120-12-7	Anthracene	U	38.9	ug/kg	7.78	38.9
84-74-2	Di-n-butylphthalate	U	389	ug/kg	77.8	389
206-44-0	Fluoranthene	U	38.9	ug/kg	11.7	38.9
85-68-7	Butylbenzylphthalate	U	389	ug/kg	77.8	389
56-55-3	Benzo(a)anthracene	U	38.9	ug/kg	11.7	38.9
91-94-1	3,3'-Dichlorobenzidine	U	389	ug/kg	117	389
218-01-9	Chrysene	U	38.9	ug/kg	11.7	38.9
117-81-7	bis(2-Ethylhexyl)phthalate	U	389	ug/kg	77.8	389
117-84-0	Di-n-octylphthalate	U	389	ug/kg	77.8	389
205-99-2	Benzo(b)fluoranthene	U	38.9	ug/kg	11.7	38.9
207-08-9	Benzo(k)fluoranthene	U	38.9	ug/kg	11.7	38.9
50-32-8	Benzo(a)pyrene	U	38.9	ug/kg	11.7	38.9
193-39-5	Indeno(1,2,3-cd)pyrene	U	38.9	ug/kg	11.7	38.9
53-70-3	Dibenzo(a,h)anthracene	U	38.9	ug/kg	11.7	38.9
191-24-2	Benzo(ghi)perylene	U	38.9	ug/kg	11.7	38.9
120-82-1	1,2,4-Trichlorobenzene	U	389	ug/kg	77.8	389

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.97	625	ug/kg		J
7785-70-8	1R-.alpha.-Pincene	3.5	345	ug/kg	95	NJ

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434003	Date Received: 02/06/2010 09:15	%Moisture: 14.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8356	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/20/2010 20:20	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.14 g	Final Volume: 1 mL
Data File: s4b2027.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
---------	----------	-----------	--------	-------	---------	---------

Tentatively Identified Compound Summary			Estimated			
CAS No.	Tentatively Identified Compound (TIC)	RT		Units	Fit	Qual
87-44-5	Caryophyllene	5.79	254	ug/kg	94	NJ
23070-53-3	Cyclododecene, 1-methyl-	6.85	173	ug/kg	89	NJ
57-10-3	n-Hexadecanoic acid	7.29	466	ug/kg	99	NJ
	Unknown	7.49	217	ug/kg		J
112-79-8	9-Octadecenoic acid, (E)-	7.72	740	ug/kg	99	NJ
	Unknown	7.84	210	ug/kg		J
	Unknown	7.91	1040	ug/kg		J
	Unknown	8.11	1260	ug/kg		J
	Unknown	8.14	347	ug/kg		J
1686-62-0	1-Phenanthrenecarboxylic acid, 7-ethenyl	8.21	1070	ug/kg	96	NJ
	Unknown	8.3	2210	ug/kg		J
1000159-38-2	Bicyclo[5.2.0]nonane, 4-methylene-2,8,8-	8.4	315	ug/kg	83	NJ
	Unknown	8.49	3310	ug/kg		J
1740-19-8	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	8.55	1210	ug/kg	93	NJ
	Unknown	8.65	1370	ug/kg		J
	Unknown	8.69	646	ug/kg		J
	Unknown	8.77	824	ug/kg		J
	Unknown	8.9	609	ug/kg		J
	Unknown	9.01	631	ug/kg		J
	Unknown	9.11	1150	ug/kg		J
	Unknown	9.19	946	ug/kg		J
1000159-38-2	Bicyclo[5.2.0]nonane, 4-methylene-2,8,8-	9.23	308	ug/kg	83	NJ
112-95-8	Eicosane	9.69	456	ug/kg	97	NJ
	Unknown	10.59	666	ug/kg		J
	Unknown	10.75	2900	ug/kg		J
	Unknown	11.09	673	ug/kg		J
1000214-20-7	Stigmasterol, 22,23-dihydro-	12.74	2970	ug/kg	99	NJ
1058-61-3	Stigmast-4-en-3-one	13.93	1790	ug/kg	96	NJ

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Data file : /chem/MSD4.i/s022010.b/s4b2027.d
 Lab Smp Id: 246434003 Client Smp ID: RE15-10-8356
 Inj Date : 20-FEB-2010 20:20
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |246434003|951989|1|SVM|1|LANL
 Misc Info : |MSD8270_S|WBN100205-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
 Meth Date : 21-Feb-2010 08:46 jos00786 Quant Type: ISTD
 Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
 Als bottle: 16
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1620.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.14000	weight of sample
M	14.66940	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.930	3.935	(1.000)	173481	40.0000
* 29 Naphthalene-d8	136	4.797	4.802	(1.000)	684245	40.0000
* 46 Accnaphthene-d10	164	6.054	6.053	(1.000)	356147	40.0000
* 67 Phenanthrene-d10	188	7.043	7.043	(1.000)	522718	40.0000
* 91 Chrysene-d12	240	8.739	8.754	(1.000)	331789	40.0000
* 98 Perylene-d12	264	10.279	10.300	(1.000)	180052	40.0000
\$ 3 2-Fluorophenol	112	3.123	3.117	(0.794)	368209	74.4864
\$ 5 Phenol-d5	99	3.641	3.646	(0.926)	483015	77.7774
\$ 20 Nitrobenzene-d5	82	4.294	4.299	(0.895)	196382	37.3742
\$ 39 2-Fluorobiphenyl	172	5.540	5.545	(0.915)	362239	39.3916
\$ 60 2,4,6-Tribromophenol	329	6.588	6.588	(1.088)	105023	94.2905
\$ 81 p-Terphenyl-d14	244	7.963	7.968	(0.911)	309961	59.7621

ION RATIO REPORT

SV REPORT

Data file: s4b2027.d

Report Date: 02/21/2010 09:01

Lab. ID: 246434003

SampleType: SAMPLE

Injection Date: 20-FEB-2010 20:20

Operator: JMB3

Instrument: MSD4.i

Sample Info: |246434003|951989|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01|

Comment:

Method used: /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1620

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline	CAS#: 62-53-3				
66	19467	3.64	3.72	80-120	100	(T)
93	4970	3.61	3.73	486-546	26	(QT)

17	N-Nitrosodipropylamine	CAS#: 621-64-7				
70	25708	4.29	4.18	80-120	100	(T)
42	11259	4.29	4.18	22- 82	44	(T)

22	Isophorone	CAS#: 78-59-1				
82	196382	4.29	4.47	80-120	100	(T)
138	117	4.35	4.47	0- 50	0	(T)

27	Benzoic acid	CAS#: 65-85-0				
105	764	4.60	4.58	80-120	100	()
122	617	4.61	4.58	49-109	81	()
77	2581	4.64	4.58	34- 94	338	(Q)

40	2-Chloronaphthalene	CAS#: 91-58-7				
162	3148	5.79	5.65	80-120	100	(T)
164	190	5.78	5.65	2- 62	6	(T)
127	402	5.79	5.65	7- 67	13	(T)

41	m-Nitroaniline	CAS#: 99-09-2				
138	1312	6.03	6.01	80-120	100	()
92	12216	6.03	6.01	81-141	931	(Q)
108	10704	6.05	6.01	0- 50	816	(Q)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
<hr/>						
43 Dimethylphthalate				CAS#: 131-11-3		
163	63023	6.05	5.82	80-120	100	(T)
164	356147	6.05	5.82	0- 40	565	(QT)
<hr/>						
44 2,6-Dinitrotoluene				CAS#: 606-20-2		
165	46249	6.05	5.88	80-120	100	(T)
63	7863	6.03	5.88	33- 93	17	(QT)
<hr/>						
45 Acenaphthylene				CAS#: 208-96-8		
152	45346	6.03	5.96	80-120	100	(T)
151	12456	6.03	5.96	0- 49	27	(T)
153	46578	6.03	5.96	0- 43	103	(QT)
<hr/>						
47 Acenaphthene				CAS#: 83-32-9		
154	38930	6.03	6.08	80-120	100	()
153	46578	6.03	6.08	66-126	120	()
152	45346	6.03	6.08	15- 75	116	(Q)
<hr/>						
50 2,4-Dinitrotoluene				CAS#: 121-14-2		
165	46249	6.05	6.17	80-120	100	(T)
89	3519	6.03	6.17	41-101	8	(QT)
63	7863	6.03	6.17	11- 71	17	(T)
<hr/>						
52 4-Nitrophenol				CAS#: 100-02-7		
139	120	6.13	6.09	80-120	100	()
109	1137	6.16	6.09	19- 79	942	(QT)
65	1305	6.10	6.09	54-114	1081	(Q)
<hr/>						
53 Fluorene				CAS#: 86-73-7		
166	5202	6.59	6.43	80-120	100	(T)
165	5130	6.59	6.43	58-118	99	(T)
167	1823	6.59	6.43	0- 44	35	(T)
<hr/>						
61 4-Bromophenylphenylether				CAS#: 101-55-3		
248	5599	6.59	6.73	80-120	100	(T)
141	42868	6.59	6.73	51-111	766	(QT)
250	11056	6.59	6.73	68-128	197	(QT)
<hr/>						
85 Butylbenzylphthalate				CAS#: 85-68-7		
149	13783	8.30	8.24	80-120	100	()
91	16580	8.31	8.24	45-105	120	(QT)
206	3355	8.31	8.24	0- 52	24	(T)
<hr/>						
93 bis(2-Ethylhexyl)phthalate				CAS#: 117-81-7		
149	58718	8.48	8.62	80-120	100	(T)
167	8559	8.48	8.62	4- 64	15	(T)

Q qualifier indicates ion failed ratio requirement

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Data file : /chem/MSD4.i/s022010.b/s4b2027.d
 Lab Smp Id: 246434003 Client Smp ID: RE15-10-8356
 Inj Date : 20-FEB-2010 20:20
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |246434003|951989|1|SVM|1|LANL
 Misc Info : |MSD8270 S|WRN100205-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
 Meth Date : 21-Feb-2010 08:46 jos00786 Quant Type: ISTD
 Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
 Als bottle: 16
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1620.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf *Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.14000	weight of sample
M	14.66940	% moisture

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.930	1031903	40.000
* 46 Acenaphthene-d10	6.054	2380892	40.000
* 67 Phenanthrene-d10	7.043	1303115	40.000
* 91 Chrysene-d12	8.739	863463	40.000
* 98 Perylene-d12	10.279	511092	40.000

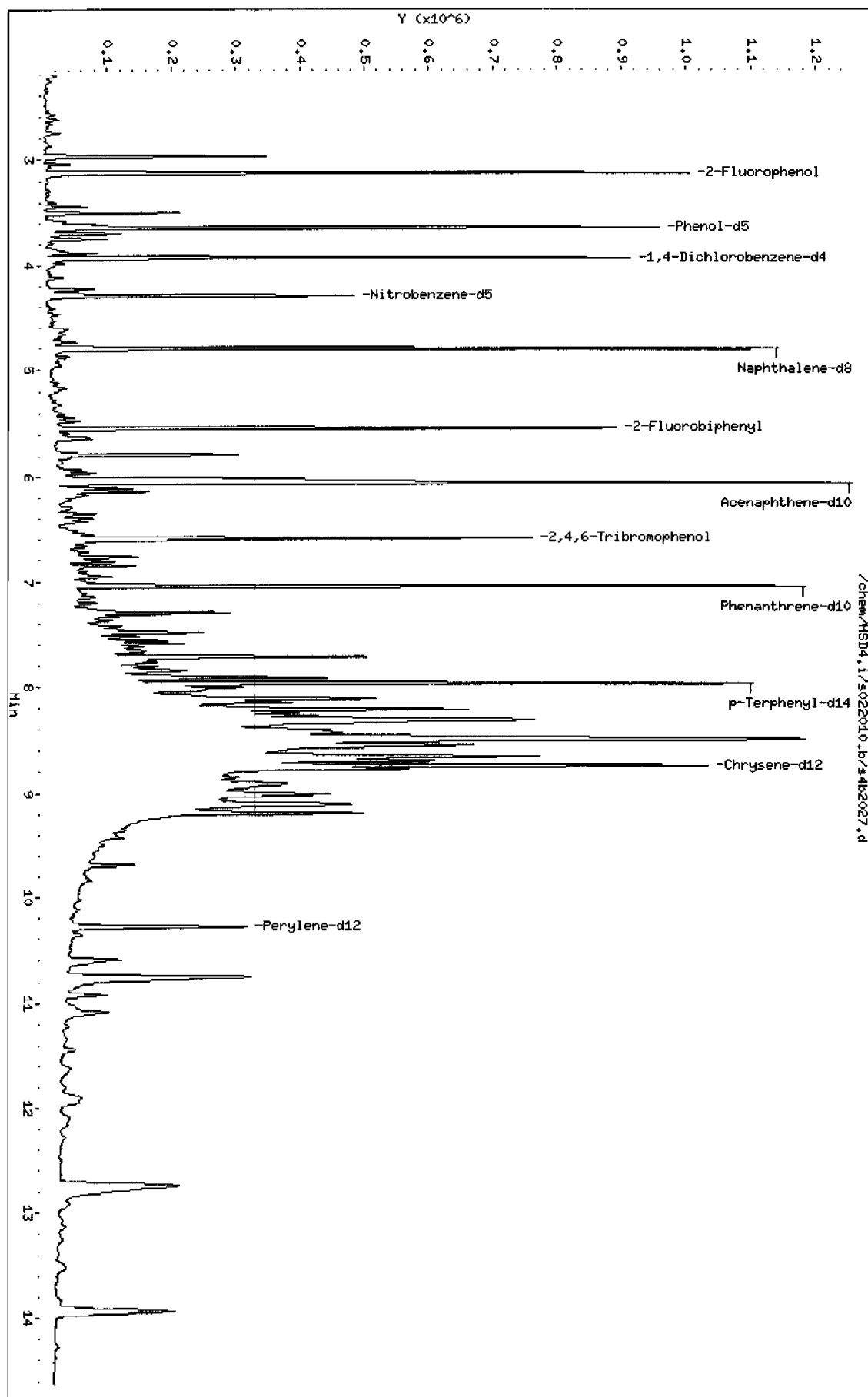
CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
----	----	-----	-----	-----	-----	-----	-----

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
====	====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate					CAS #:		
2.967	414587	16.0707773	625	0		0	10
1R-.alpha.-Pinene					CAS #: 7785-70-8		
3.502	228878	8.87205917	345	95	NIST05.L	15188	10
Caryophyllene					CAS #: 87-44-5		
5.786	388221	6.52227051	254	94	NIST05.L	59797	46
Cyclododecene, 1-methyl-					CAS #: 23070-53-3		
6.851	144593	4.43837584	172	89	NIST05.L	43186	67
n-Hexadecanoic acid					CAS #: 57-10-3		
7.294	390407	11.9838022	466	99	NIST05.L	96235	67
Unknown					CAS #:		
7.487	182181	5.59218181	217	0		0	67
9-Octadecenoic acid, (E)-					CAS #: 112-79-8		
7.717	619715	19.0225802	740	99	NIST05.L	113363	67
Unknown					CAS #:		
7.840	175868	5.39838645	210	0		0	67
Unknown					CAS #:		
7.915	575553	26.6625577	1040	0		0	91
Unknown					CAS #:		
8.107	697254	32.3003258	1260	0		0	91
Unknown					CAS #:		
8.140	192829	8.93280548	347	0		0	91
1-Phenanthrenecarboxylic acid, 7-ethenyl					CAS #: 1686-62-0		
8.209	595429	27.5832869	1070	96	NIST05.L	134785	91
Unknown					CAS #:		
8.300	1229491	56.9562755	2210	0		0	91
Bicyclo[5.2.0]nonane, 4-methylene-2,8,8-					CAS #: 1000159-38-2		
8.402	174871	8.10090547	315	83	NIST05.L	59916	91
Unknown					CAS #:		
8.487	1835386	85.0244100	3300	0		0	91

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
1-Phenanthrenecarboxylic acid, 1,2,3,4,4					CAS #: 1740-19-8		
8.546	673094	31.1811256	1210	93	NIST05.L	125034	91
Unknown					CAS #:		
8.648	762955	35.3439611	1370	0		0	91
Unknown					CAS #:		
8.690	358623	16.6132375	646	0		0	91
Unknown					CAS #:		
8.771	457519	21.1946106	824	0		0	91
Unknown					CAS #:		
8.904	338364	15.6747348	609	0		0	91
Unknown					CAS #:		
9.006	350112	16.2189876	631	0		0	91
Unknown					CAS #:		
9.108	639063	29.6046367	1150	0		0	91
Unknown					CAS #:		
9.188	524972	24.3193909	946	0		0	91
Bicyclo[5.2.0]nonane, 4-methylene-2,8,8-					CAS #: 1000159-38-2		
9.225	170813	7.91290662	308	83	NIST05.L	59916	91
Eicosane					CAS #: 112-95-8		
9.691	149913	11.7327101	456	97	NIST05.L	113492	98
Unknown					CAS #:		
10.589	218917	17.1332163	666	0		0	98
Unknown					CAS #:		
10.750	951827	74.4934842	2900	0		0	98
Unknown					CAS #:		
11.087	221137	17.3070093	673	0		0	98
Stigmasterol, 22,23-dihydro-					CAS #: 1000214-20-7		
12.739	974728	76.2857589	2970	99	NIST05.L	174408	98
Stigmast-4-en-3-one					CAS #: 1058-61-3		
13.932	587956	46.0155843	1790	96	NIST05.L	173936	98

Data File: /chem/HSD4.i/s022010.b/s4b2027.d
 Date : 20-FEB-2010 20:20
 Client ID: RE15-10-8356
 Sample Info: 1246434003195199111SWH11LPHL
 Volume Injected (ul): 0.5
 Column phase: 38M DB-SMS

Instrument: HSD4.i
 Operator: JHB3
 Column diameter: 0.20



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 1246434003195198911ISVM11ILANL

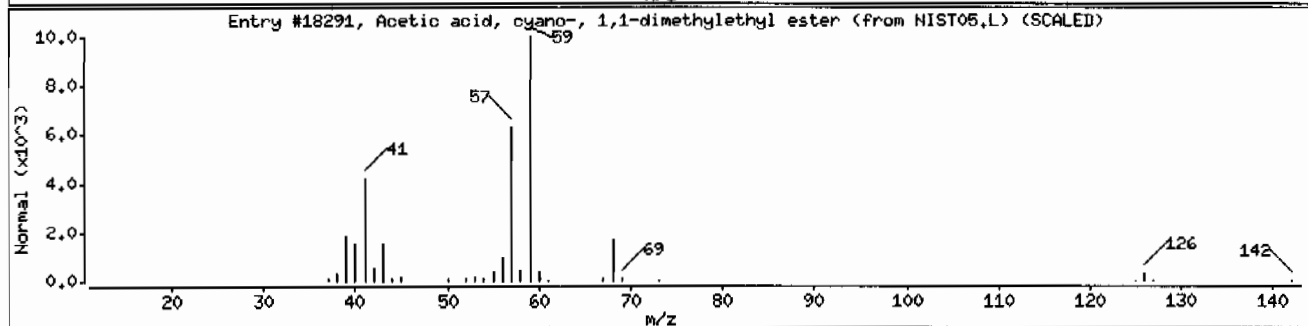
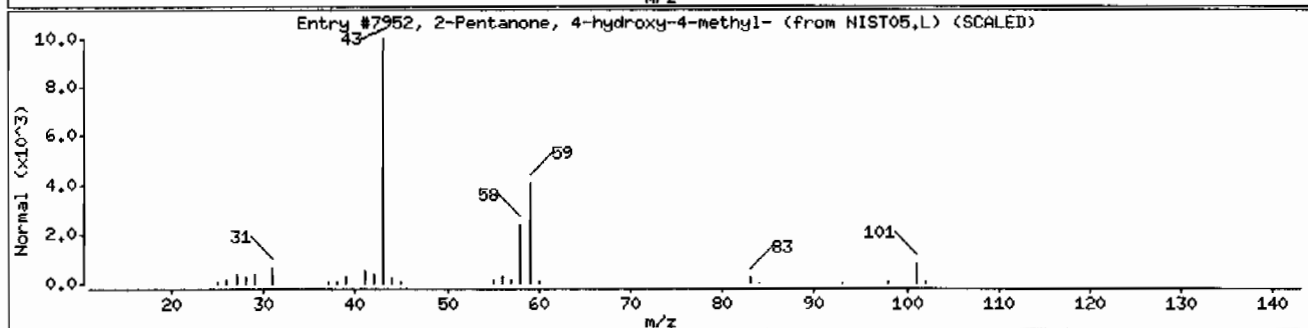
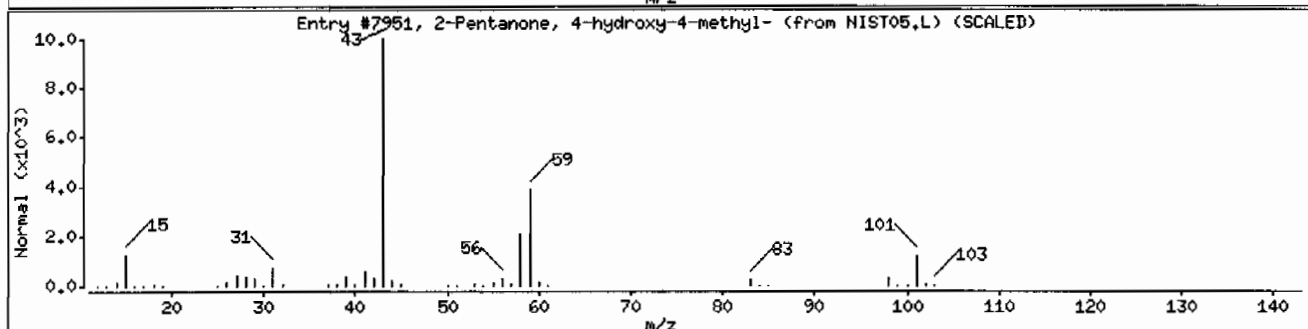
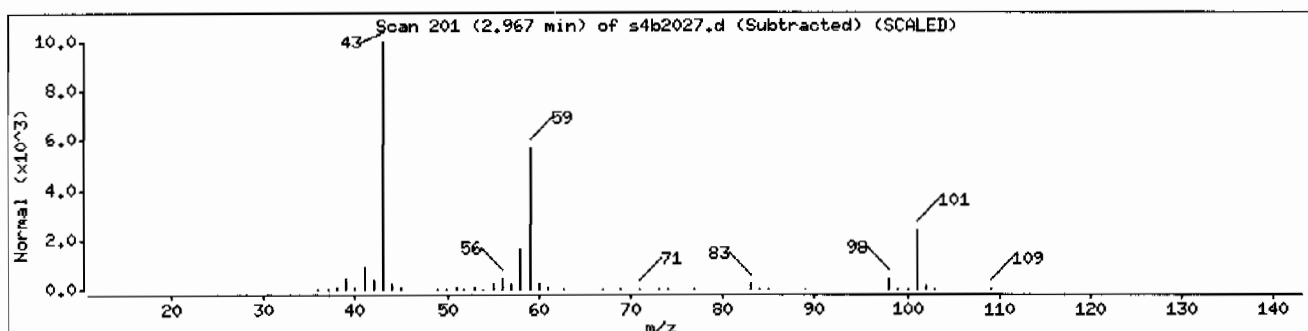
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	28	C6H12O2	116
Acetic acid, cyano-, 1,1-dimethylethyl e	1116-98-9	NIST05.L	18291	17	C7H11NO2	141



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 1246434003195198911SVMI1ILANL

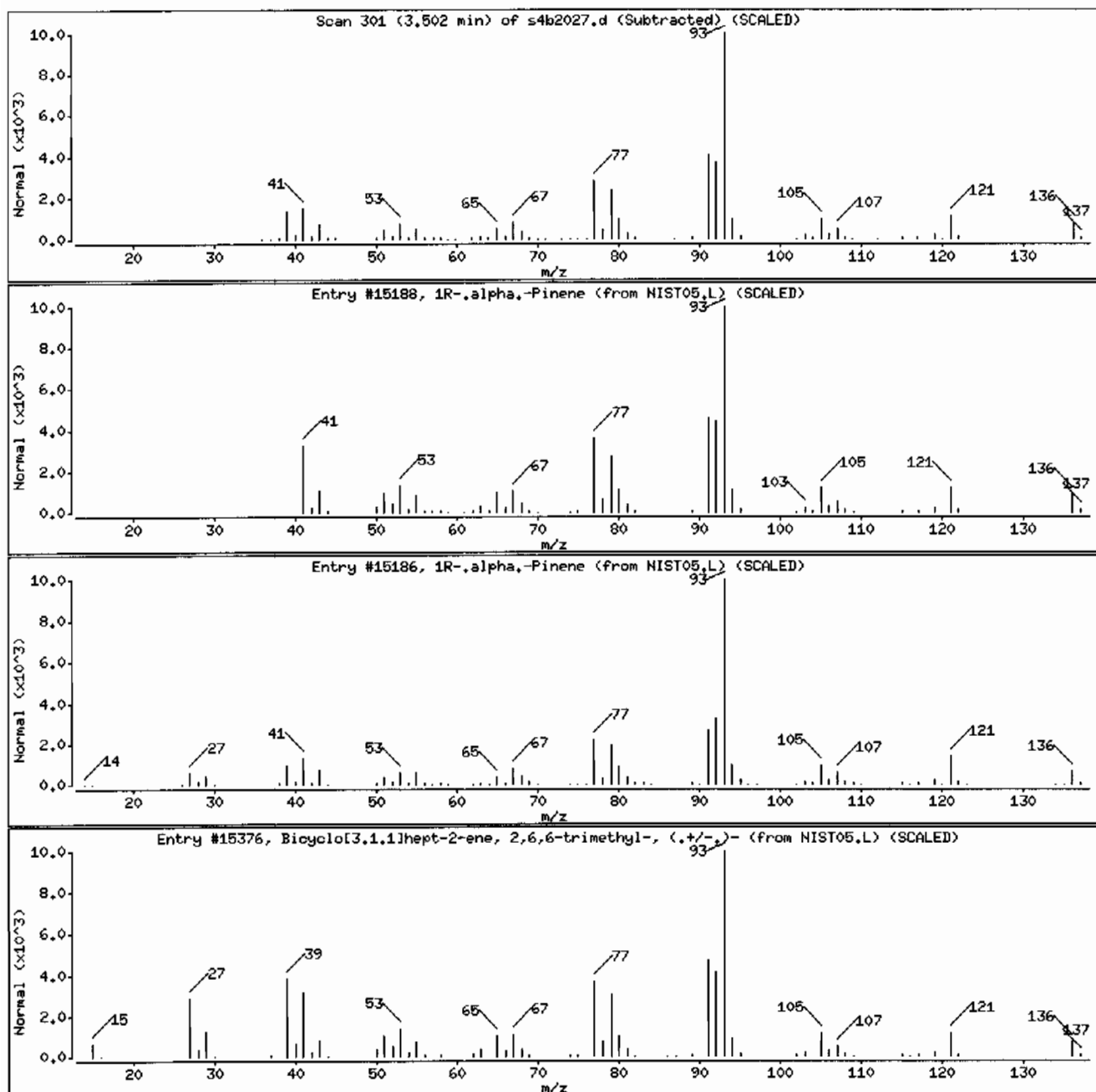
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1R-.alpha.-Pinene	7785-70-8	NIST05.L	15188	95	C10H16	136
1R-.alpha.-Pinene	7785-70-8	NIST05.L	15186	94	C10H16	136
Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl	2437-95-8	NIST05.L	15376	94	C10H16	136



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 1246434003195198911SVHI11LANL

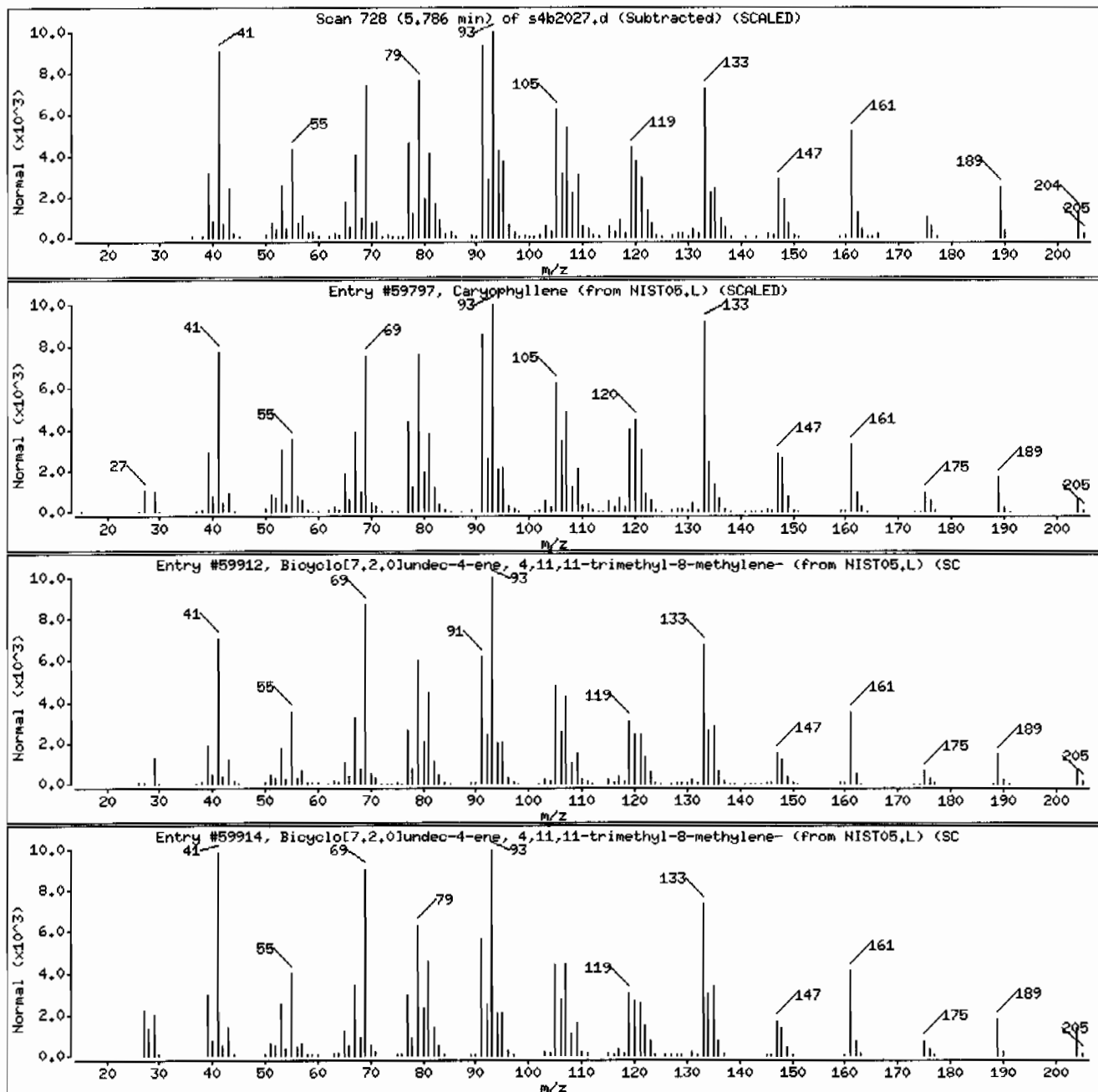
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Caryophyllene	87-44-5	NIST05.L	59797	94	C15H24	204
Bicyclo[7.2.0]undec-4-ene, 4,11,11-trime	13877-93-5	NIST05.L	59912	93	C15H24	204
Bicyclo[7.2.0]undec-4-ene, 4,11,11-trime	13877-93-5	NIST05.L	59914	91	C15H24	204



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: HSD4.i

Sample Info: 12464340031951989111SVMI11LANL

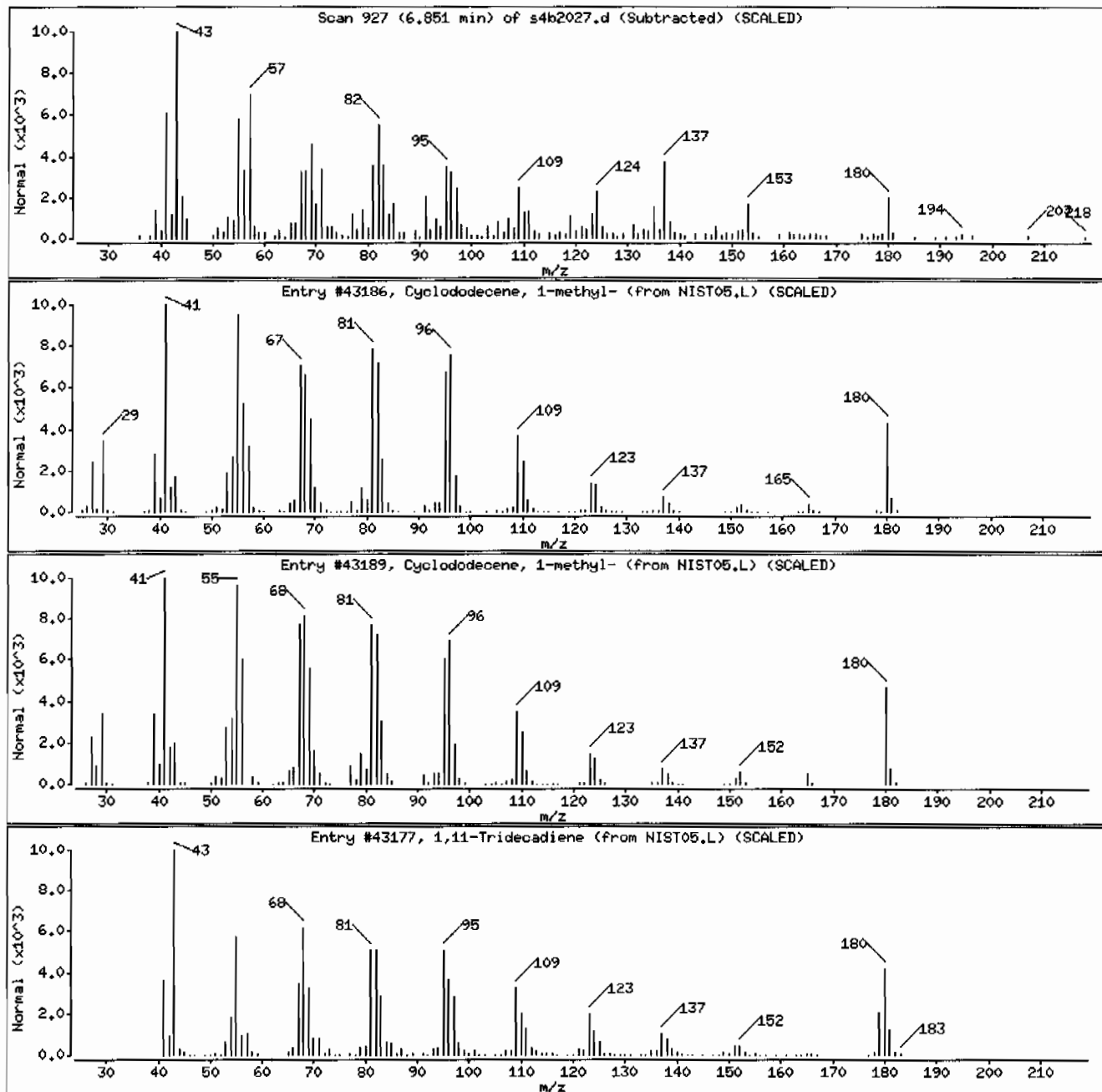
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclododecene, 1-methyl-	23070-53-3	NIST05.L	43186	89	C13H24	180
Cyclododecene, 1-methyl-	23070-53-3	NIST05.L	43189	86	C13H24	180
1,11-Tridecadiene	1000130-76-4	NIST05.L	43177	76	C13H24	180



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 1246434003195198911ISVH11ILANL

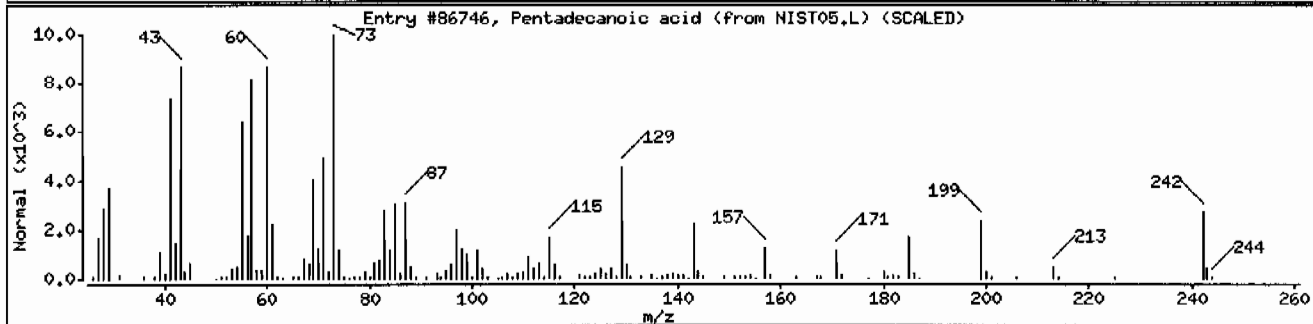
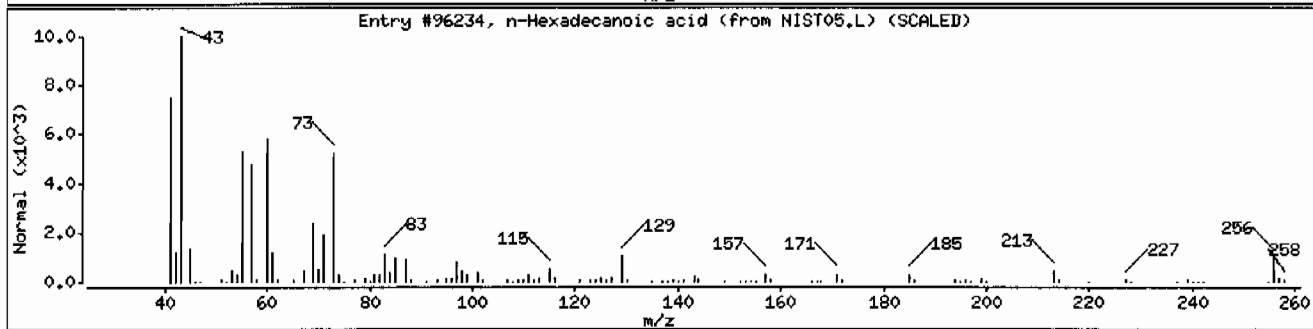
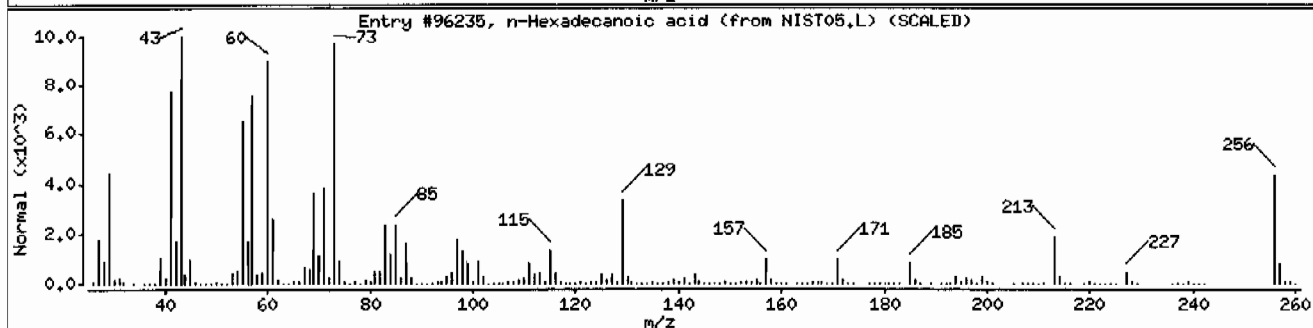
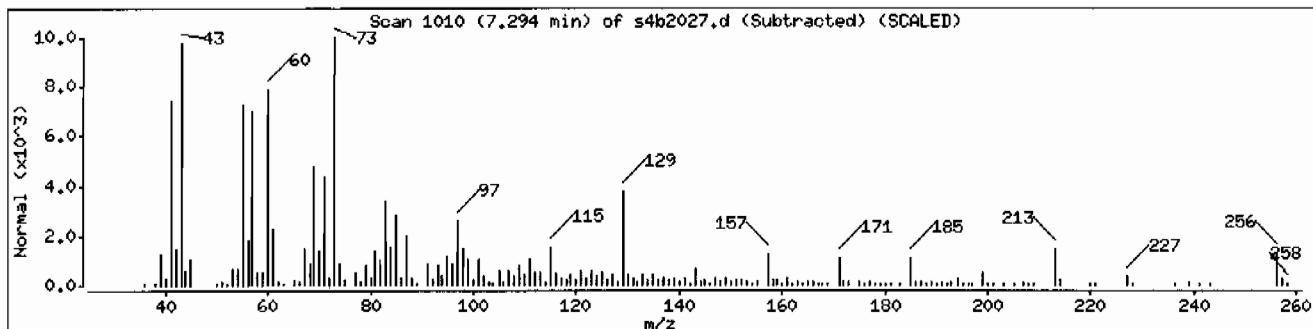
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
n-Hexadecanoic acid	57-10-3	NIST05.L	96235	99	C16H32O2	256
n-Hexadecanoic acid	57-10-3	NIST05.L	96234	83	C16H32O2	256
Pentadecanoic acid	1002-84-2	NIST05.L	86746	83	C15H30O2	242



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 12464340031951989111SVMI11LANL

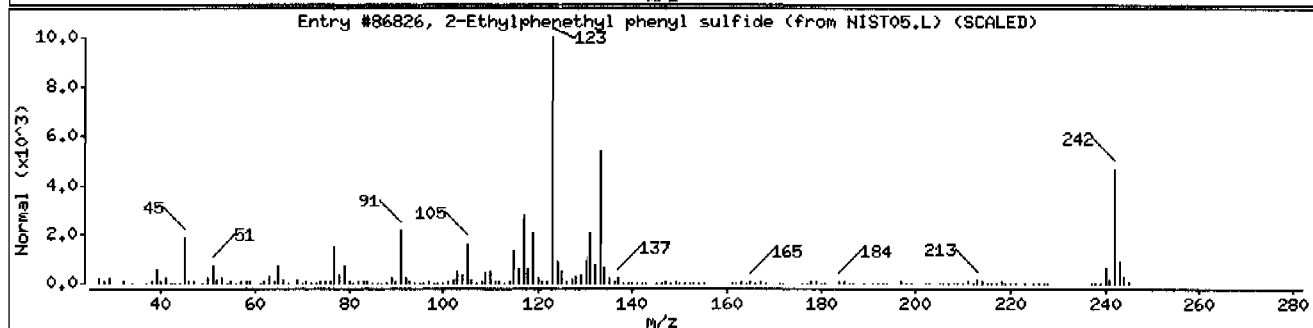
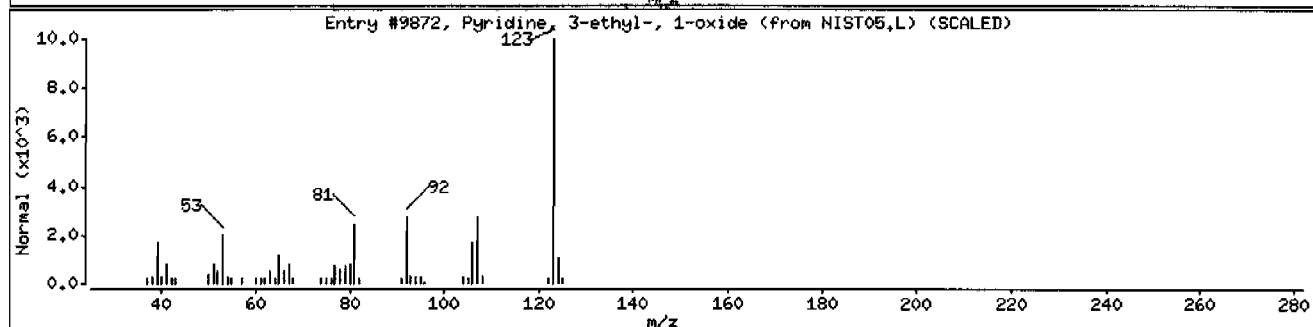
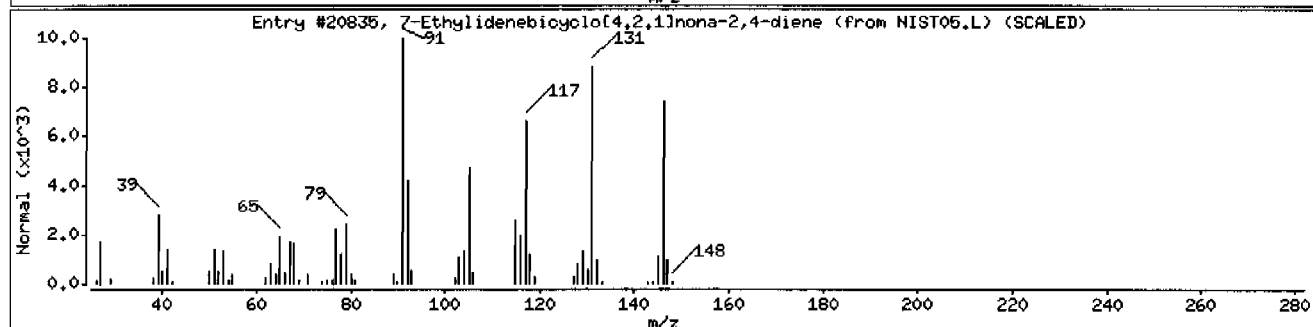
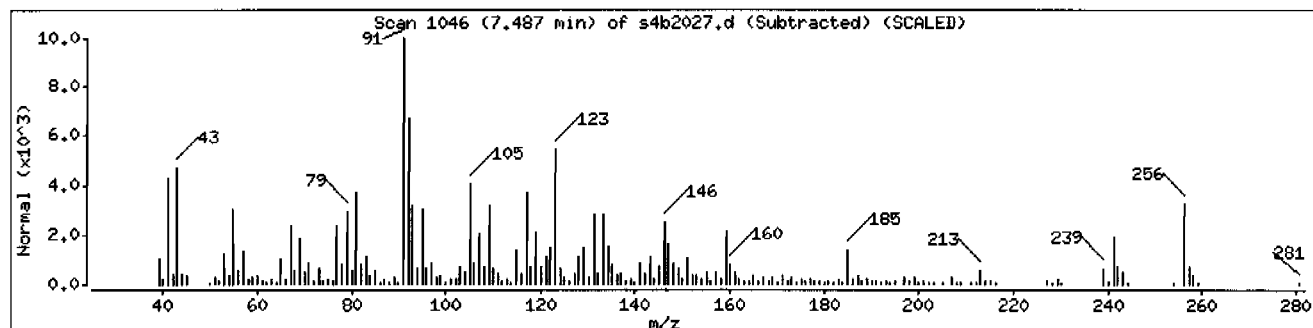
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
7-Ethylidenebicyclo[4.2.1]nona-2,4-diene	94400-10-9	NIST05.L	20835	18	C11H14	146
Pyridine, 3-ethyl-, 1-oxide	14906-62-8	NIST05.L	9872	15	C7H9NO	123
2-Ethylphenethyl phenyl sulfide	1000233-37-9	NIST05.L	86826	14	C16H18S	242



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: HSD4.i

Sample Info: 1246434003195198911/SVM111/LANL

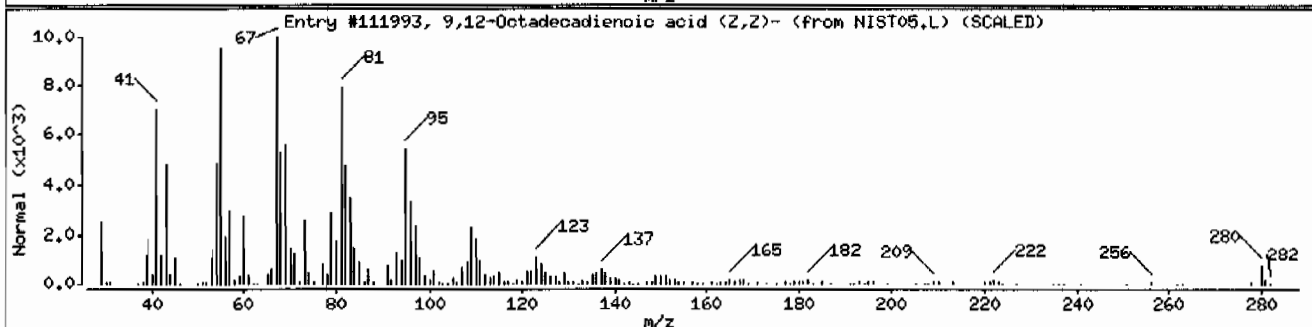
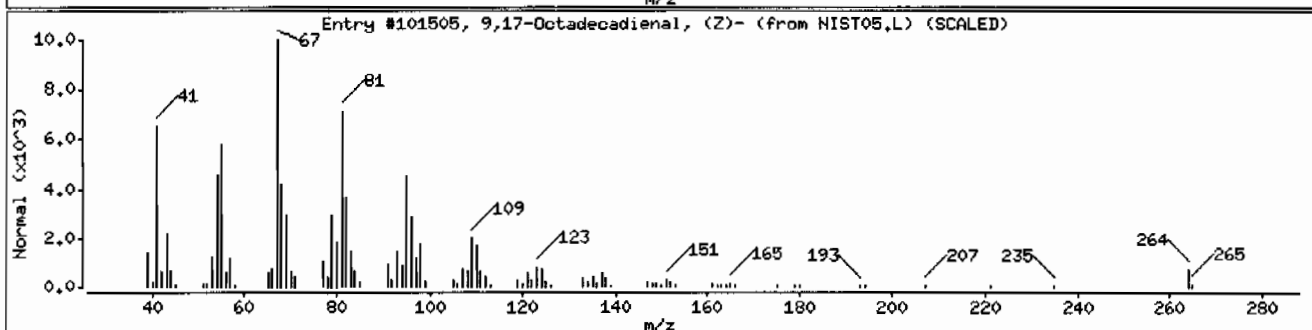
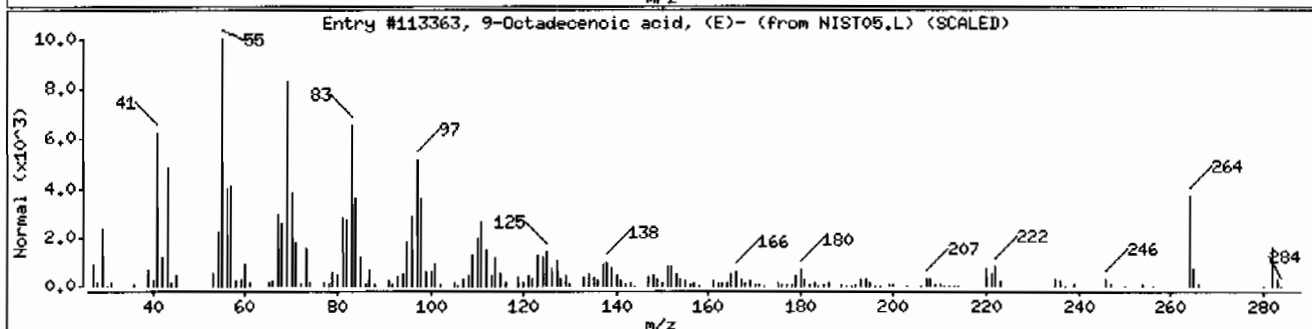
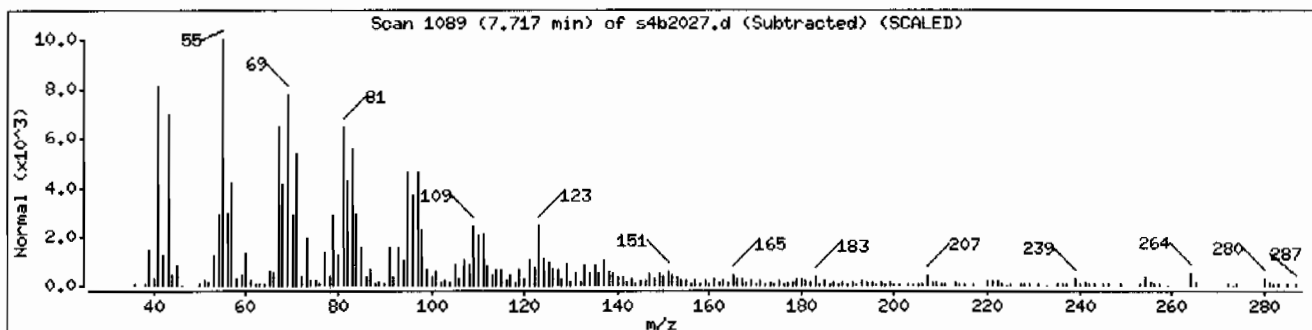
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenoic acid, (E)-	112-79-8	NIST05.L	113363	99	C18H34O2	282
9,17-Octadecadienal, (Z)-	56554-35-9	NIST05.L	101505	94	C18H32O	264
9,12-Octadecadienoic acid (Z,Z)-	60-33-3	NIST05.L	111993	90	C18H32O2	280



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: I246434003195198911SVH11ILANL

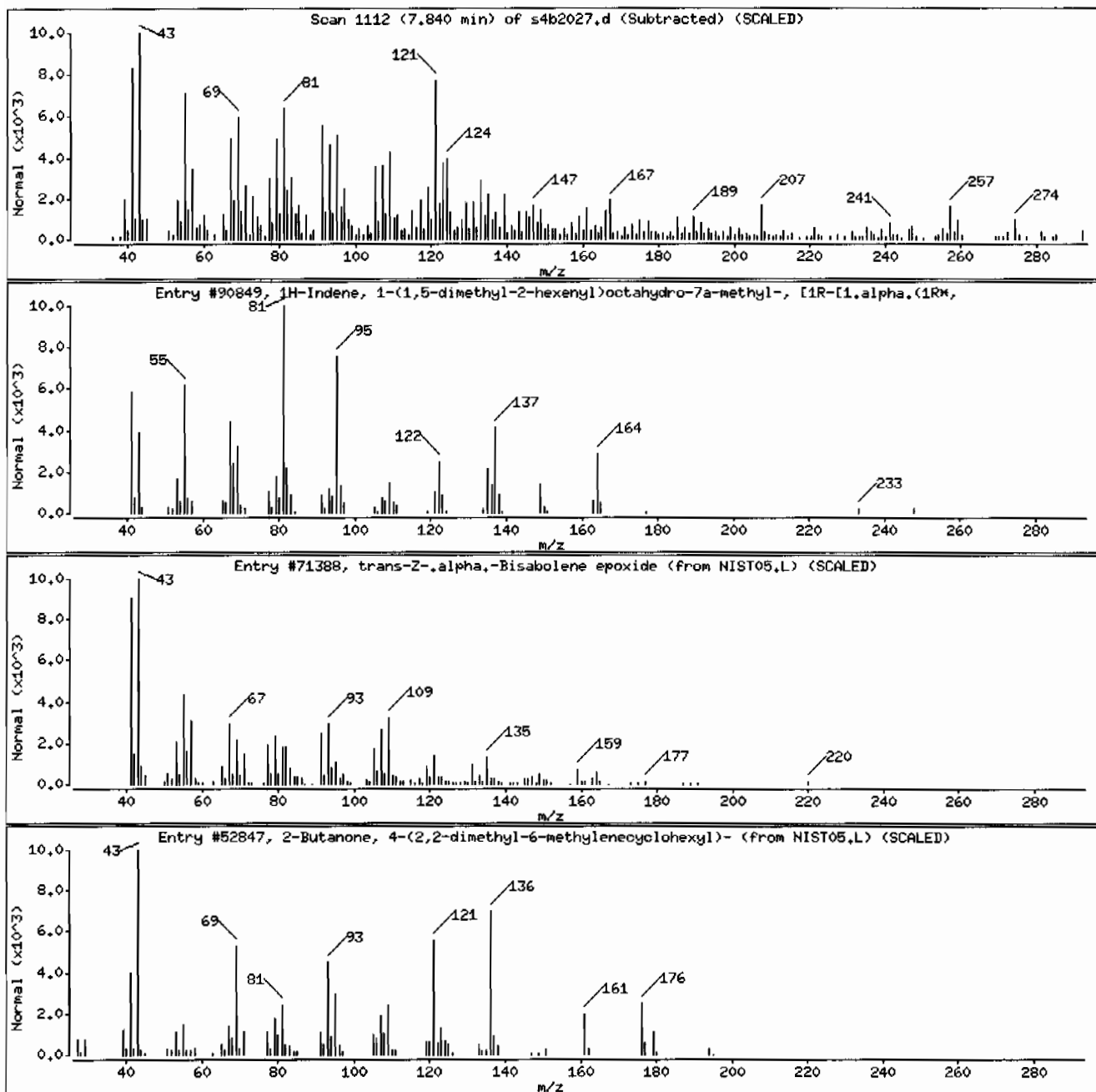
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1H-Indene, 1-(1,5-dimethyl-2-hexenyl)oct	54411-95-9	NIST05.L	90849	44	C18H32	248
trans-Z-.alpha.-Bisabolene epoxide	1000131-71-1	NIST05.L	71388	43	C15H24O	220
2-Butanone, 4-(2,2-dimethyl-6-methylenecyclohexyl)-	13720-12-2	NIST05.L	52847	38	C13H22O	194



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 1246434003195198911SVHI11LANL

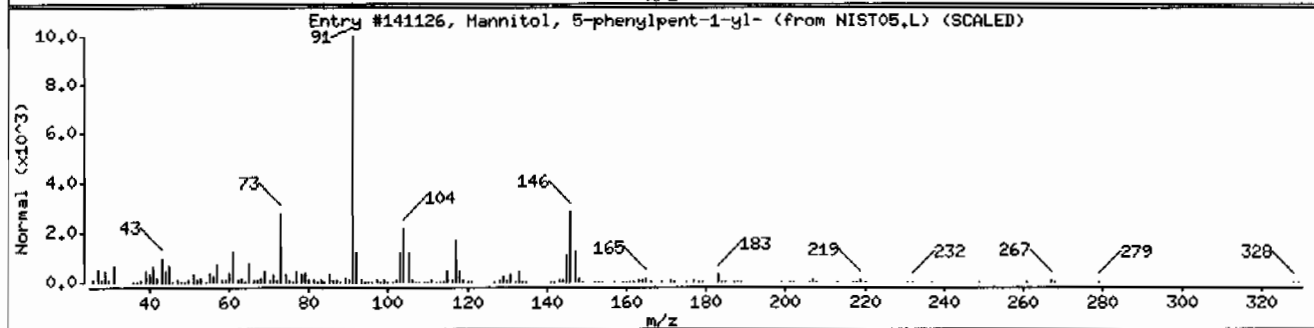
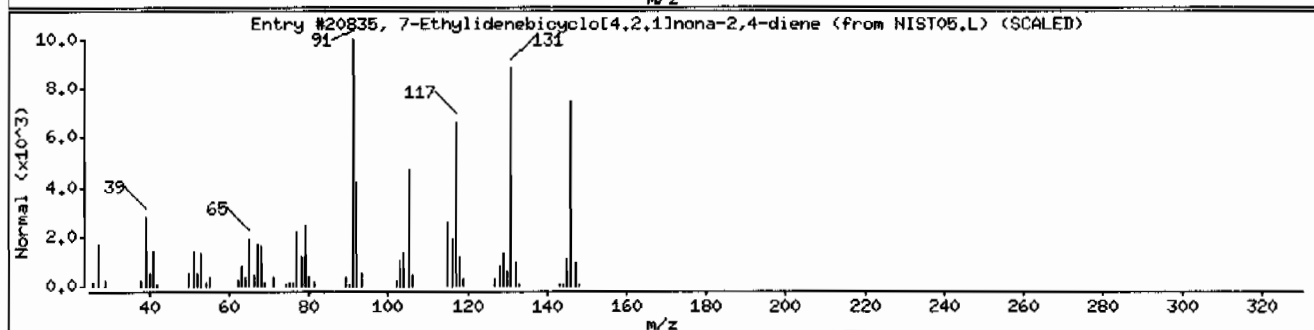
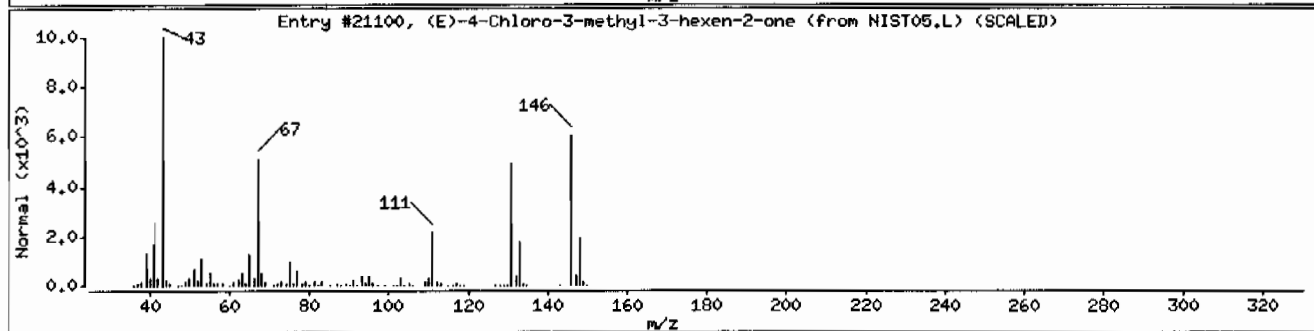
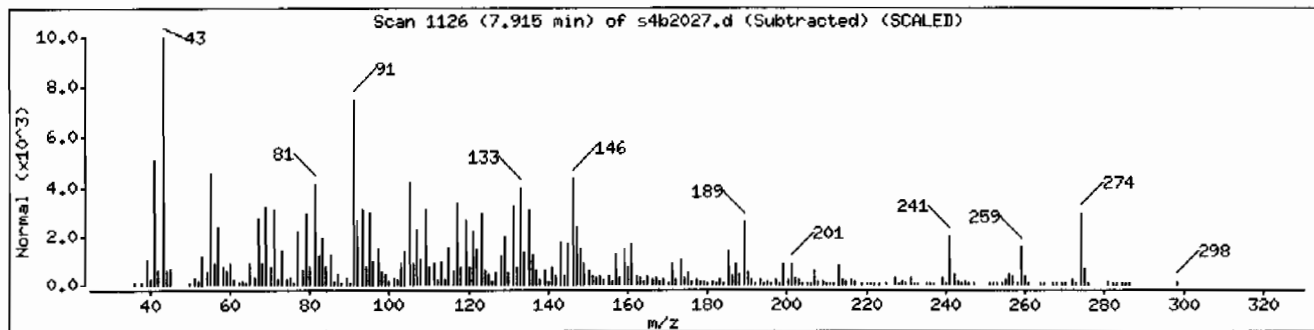
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
(E)-4-Chloro-3-methyl-3-hexen-2-one	105949-80-2	NIST05.L	21100	18	C7H11ClO	146
7-Ethylidenebicyclo[4.2.1]nona-2,4-diene	94400-10-9	NIST05.L	20835	15	C11H14	146
Mannitol, 5-phenylpent-1-yl-	1000154-79-8	NIST05.L	141126	10	C17H28O6	328



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 1246434003195198911SVH11ILANL

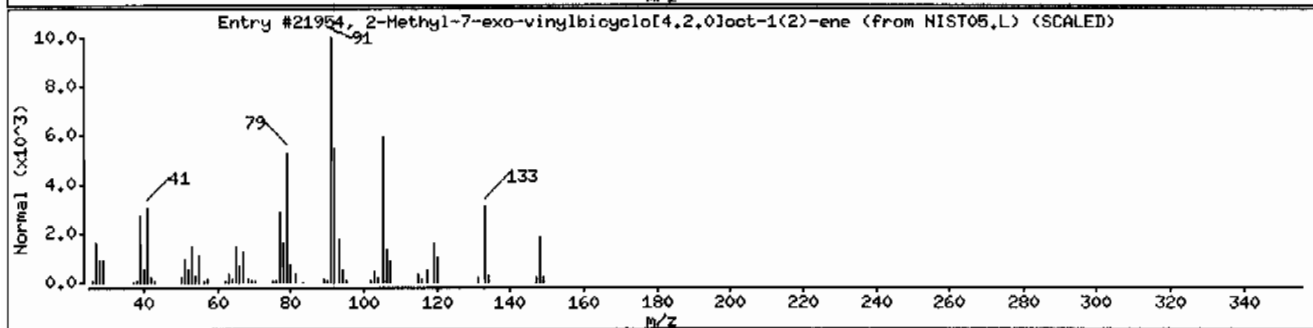
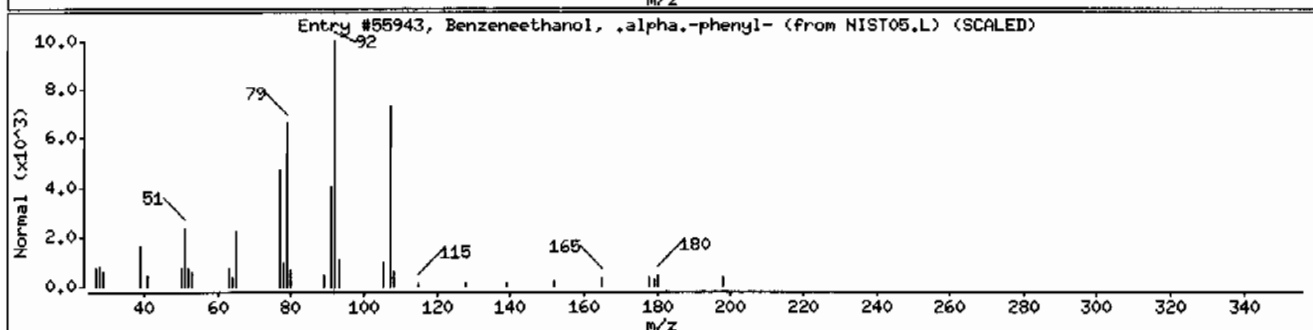
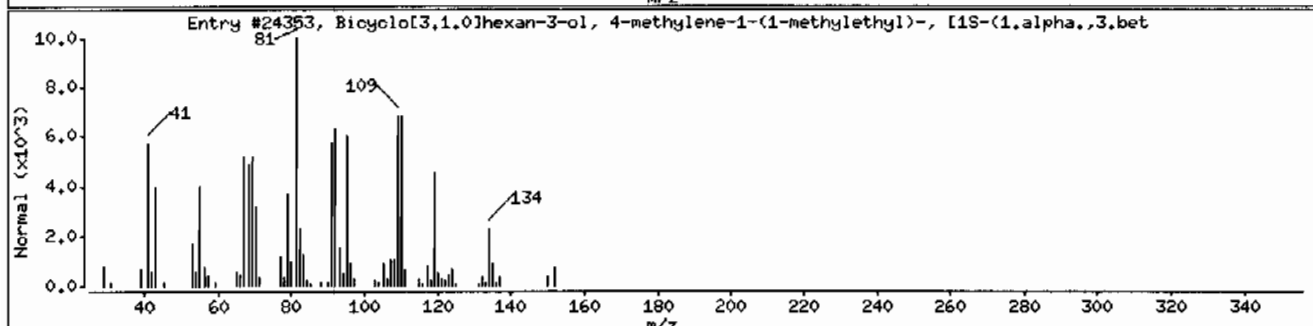
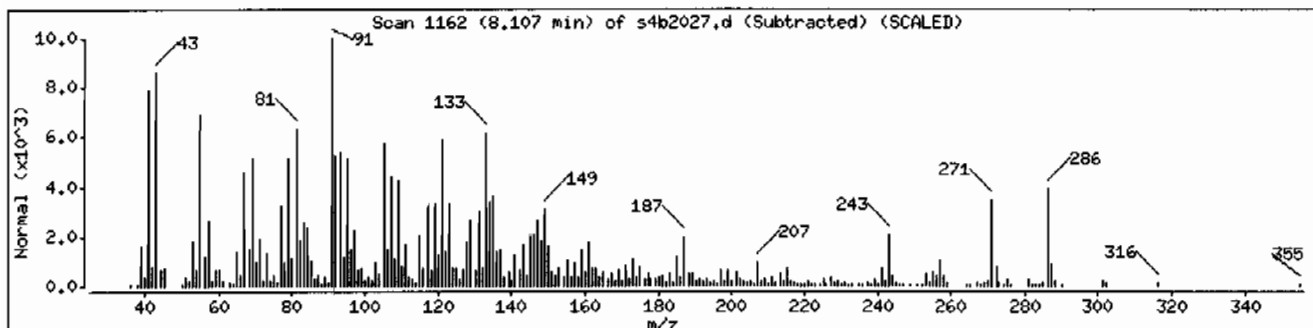
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Bicyclo[3.1.0]hexan-3-ol, 4-methylene-1-	471-16-9	NIST05.L	24353	56	C10H16O	152
Benzeneethanol, .alpha.-phenyl-	614-29-9	NIST05.L	55943	25	C14H14O	198
2-Methyl-7-exo-vinylbicyclo[4.2.0]oct-1(	107914-89-6	NIST05.L	21954	25	C11H16	148



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: I246434003195198911ISVM111LANL

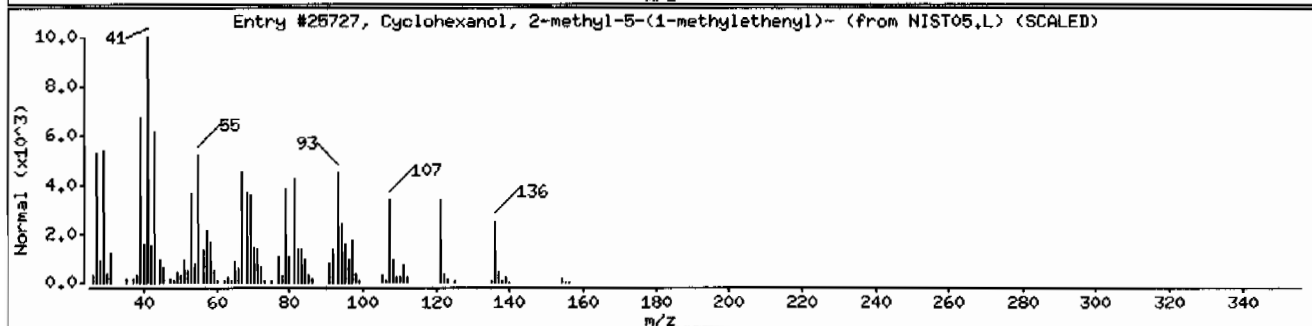
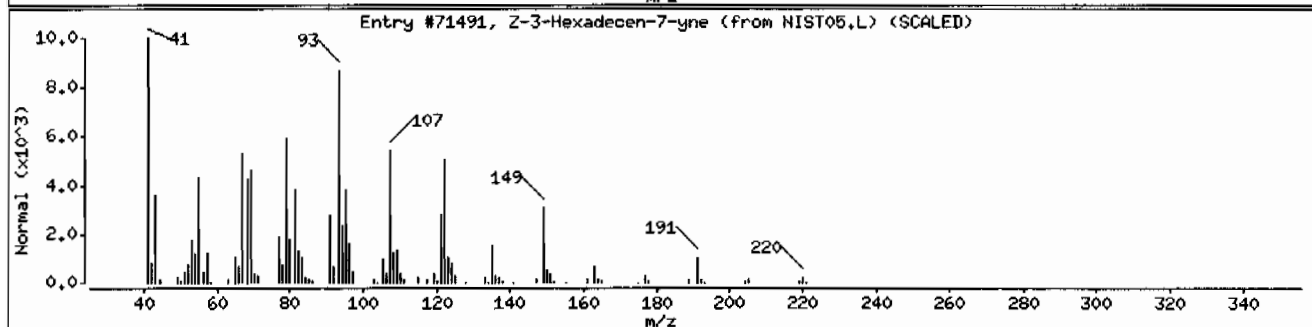
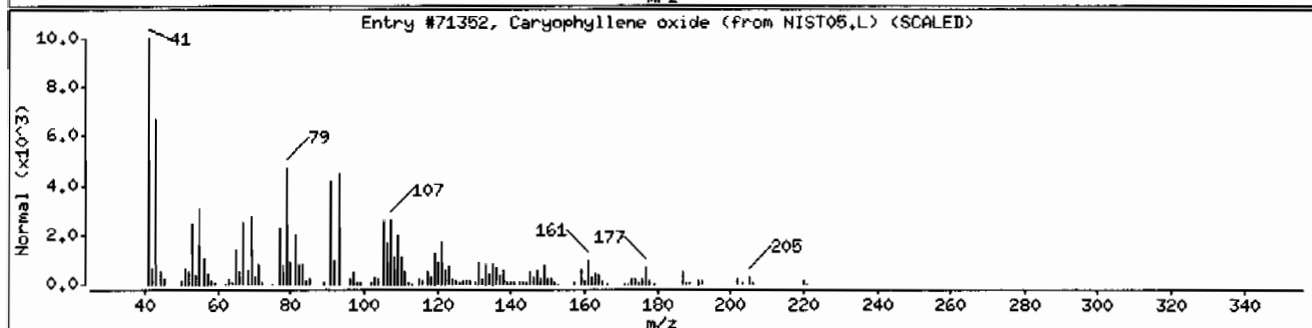
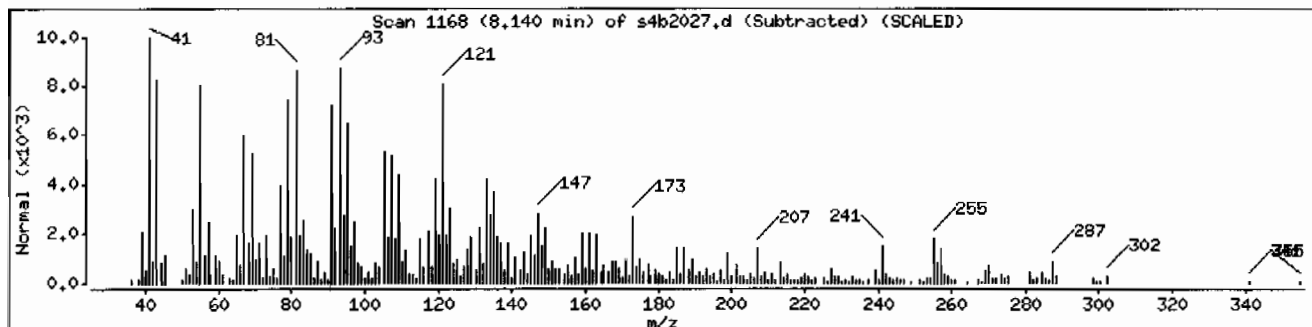
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Caryophyllene oxide	1139-30-6	NIST05.L	71352	64	C15H24O	220
Z-3-Hexadecen-7-yne	1000130-91-3	NIST05.L	71491	55	C16H28	220
Cyclohexanol, 2-methyl-5-(1-methylethenyl)	619-01-2	NIST05.L	25727	55	C10H18O	154



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: I246434003195198911ISVH11ILANL

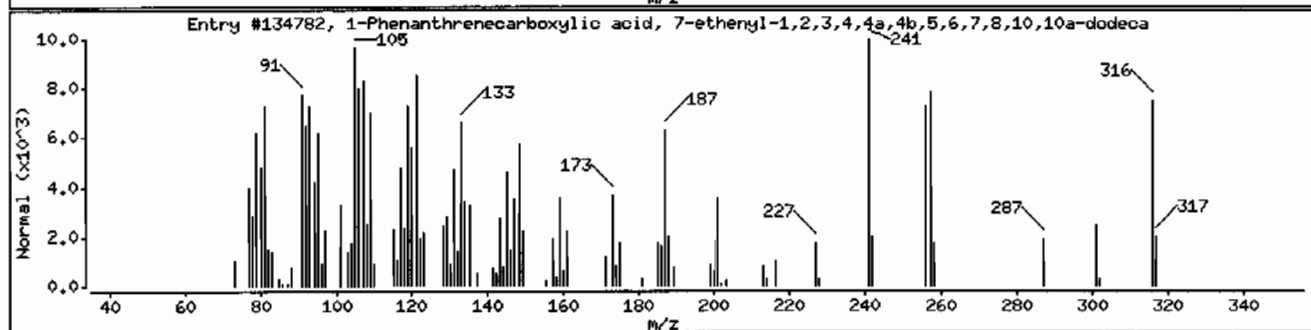
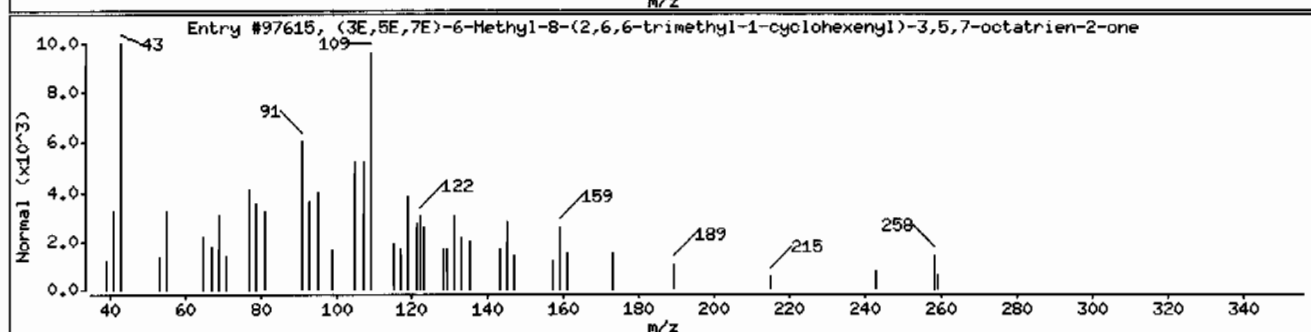
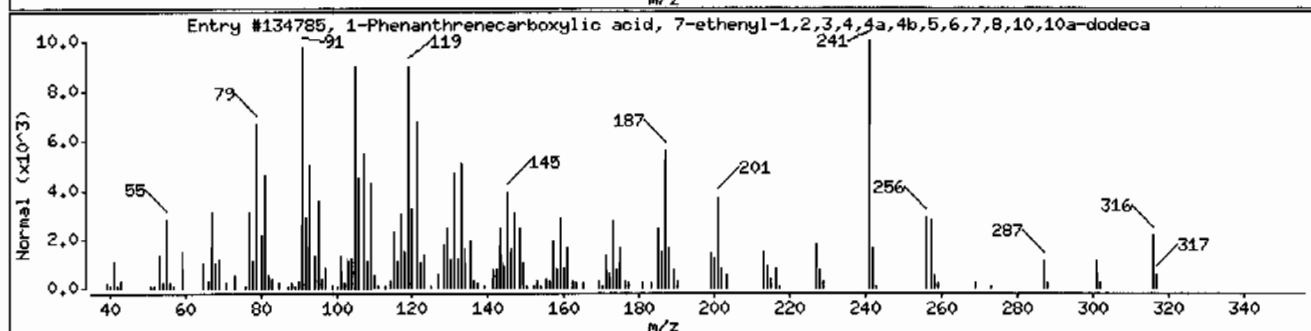
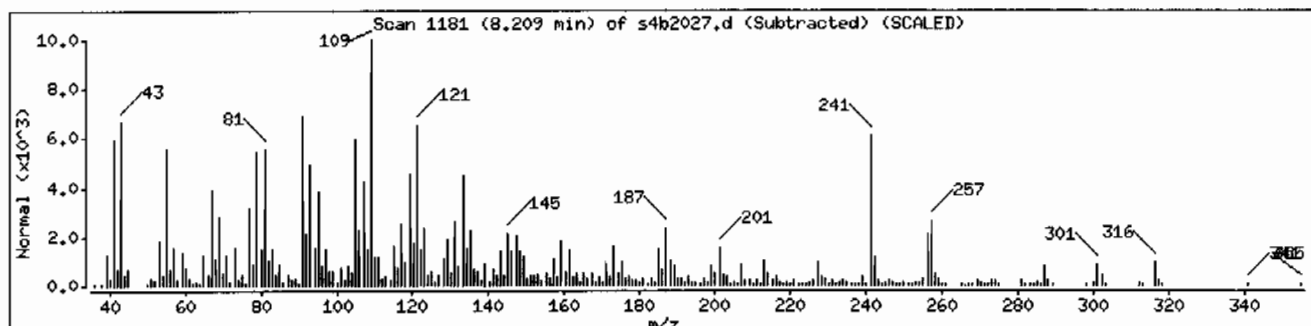
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Phenanthrenecarboxylic acid, 7-ethenyl	1686-62-0	NIST05.L	134785	96	C21H32O2	316
(3E,5E,7E)-6-Methyl-8-(2,6,6-trimethyl-1	17974-57-1	NIST05.L	97615	87	C18H26O	258
1-Phenanthrenecarboxylic acid, 7-ethenyl	1686-62-0	NIST05.L	134782	46	C21H32O2	316



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 1246434003195198911SVMI11LANL

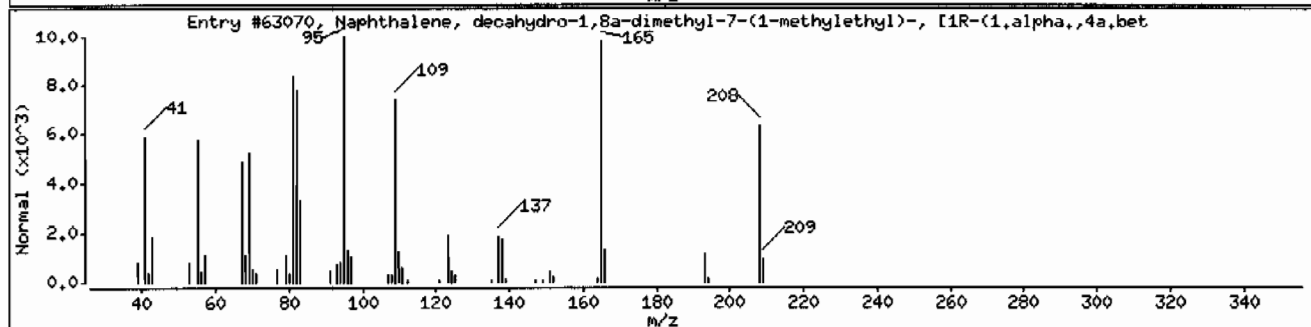
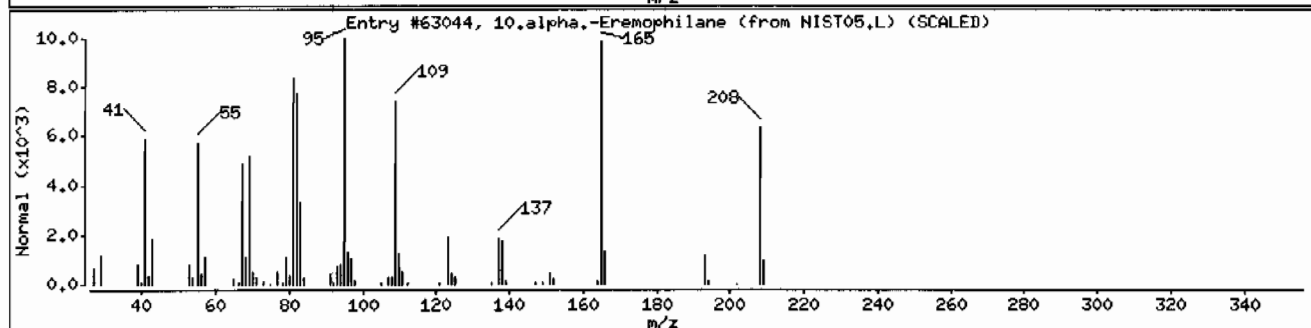
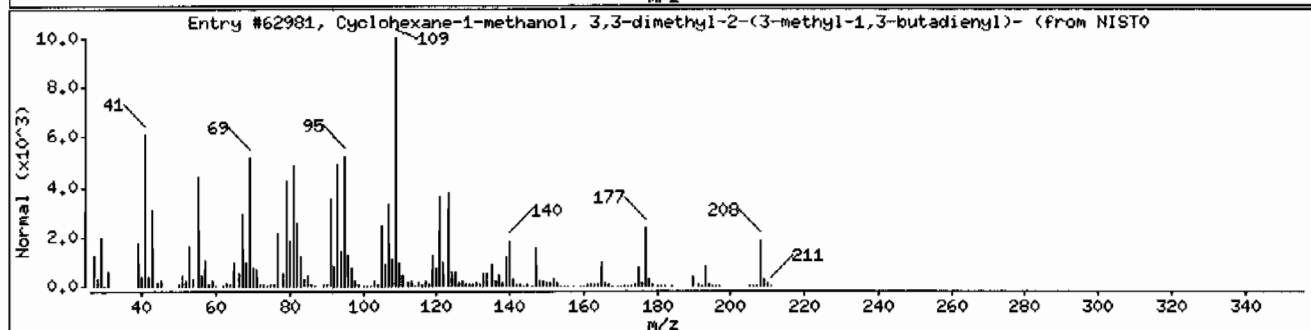
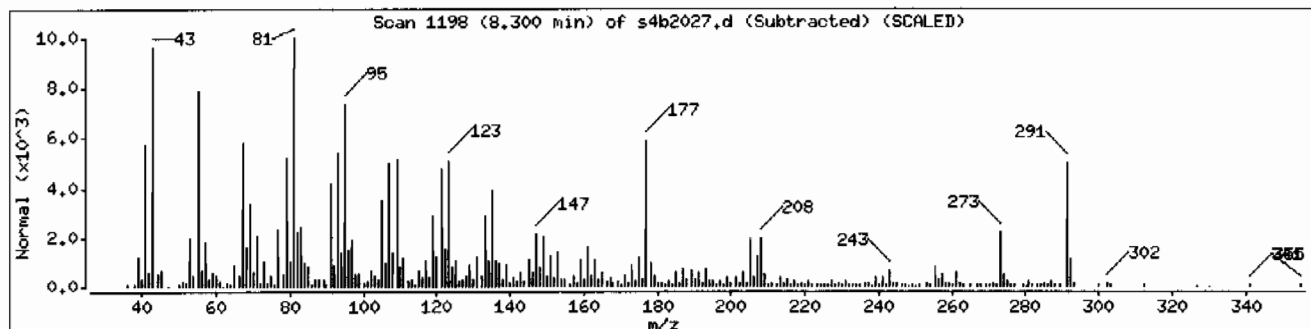
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane-1-methanol, 3,3-dimethyl-2-(	1000196-01-5	NIST05.L	62981	46	C14H24O	208
10,α-,-Eremophilane	3242-05-5	NIST05.L	63044	45	C15H28	208
Naphthalene, decahydro-1,8a-dimethyl-7-(	15404-63-4	NIST05.L	63070	45	C15H28	208



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: I2464340031951989111SVMI11LANL

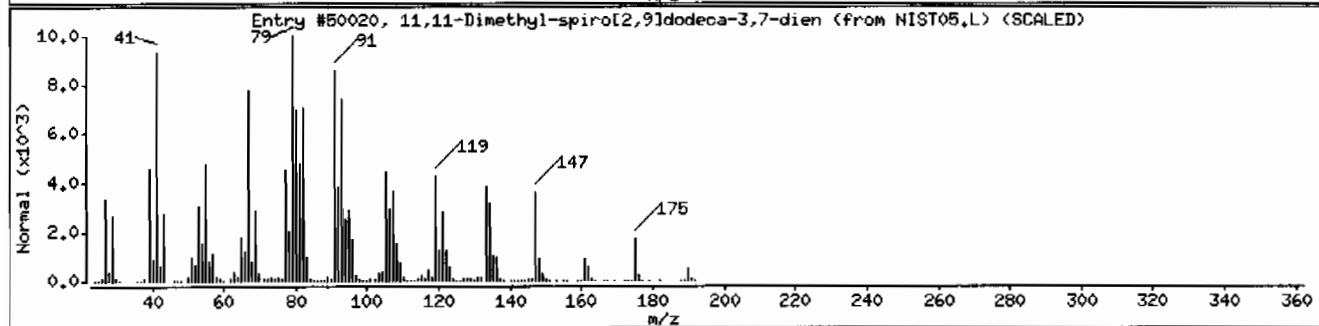
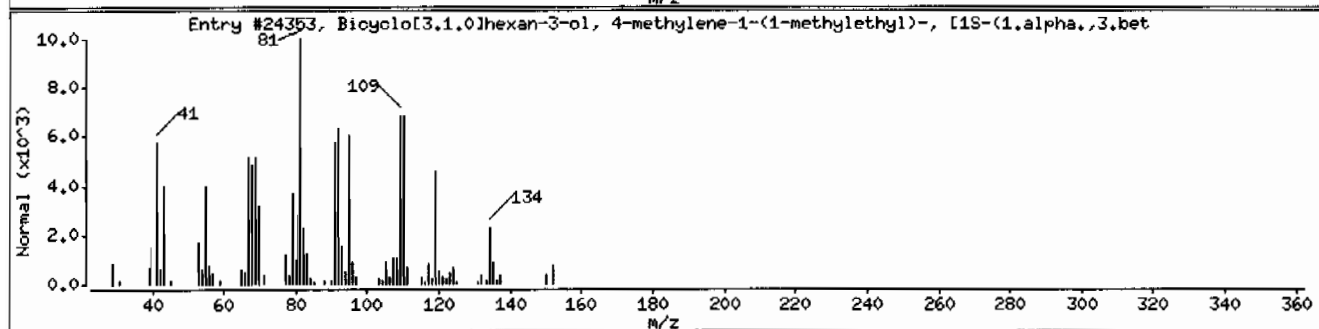
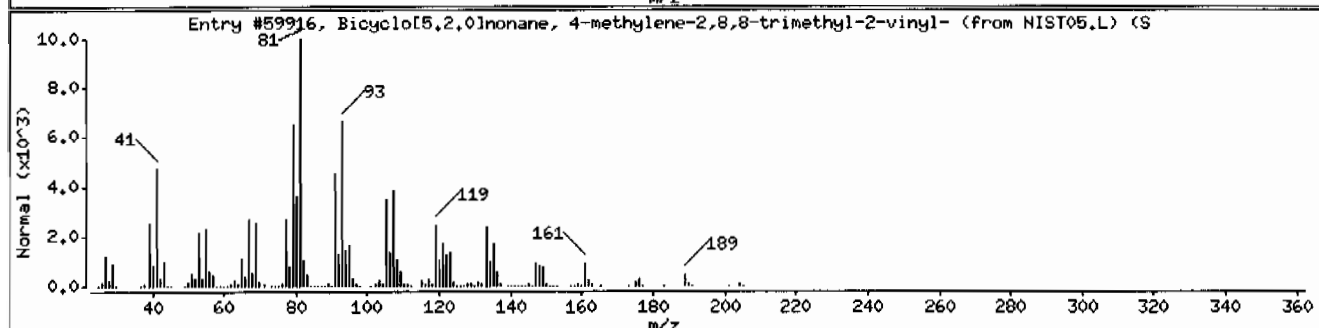
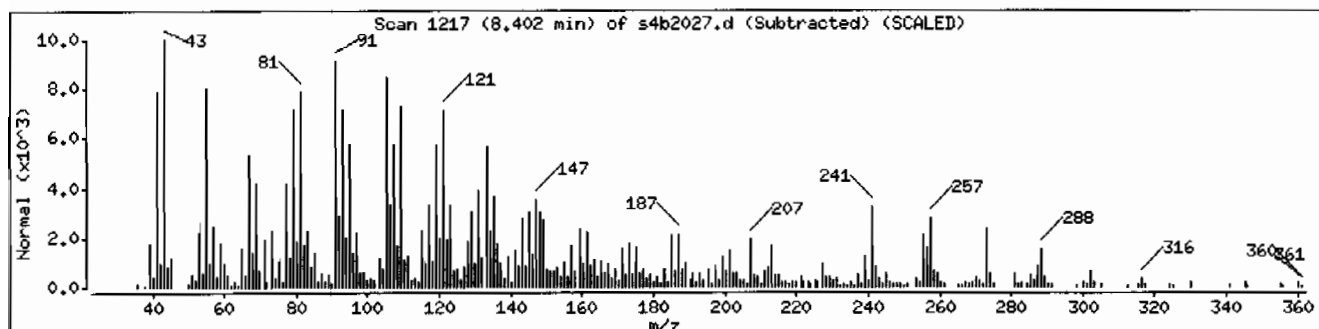
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Bicyclo[5.2.0]nonane, 4-methylene-2,8,8-	1000159-38-2	NIST05.L	59916	83	C15H24	204
Bicyclo[3.1.0]hexan-3-ol, 4-methylene-1-	471-16-9	NIST05.L	24353	45	C10H16O	152
11,11-Dimethyl-spiro[2.9]dodeca-3,7-dien	1000062-28-4	NIST05.L	50020	42	C14H22	190



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 1246434003195198911ISVM11ILANL

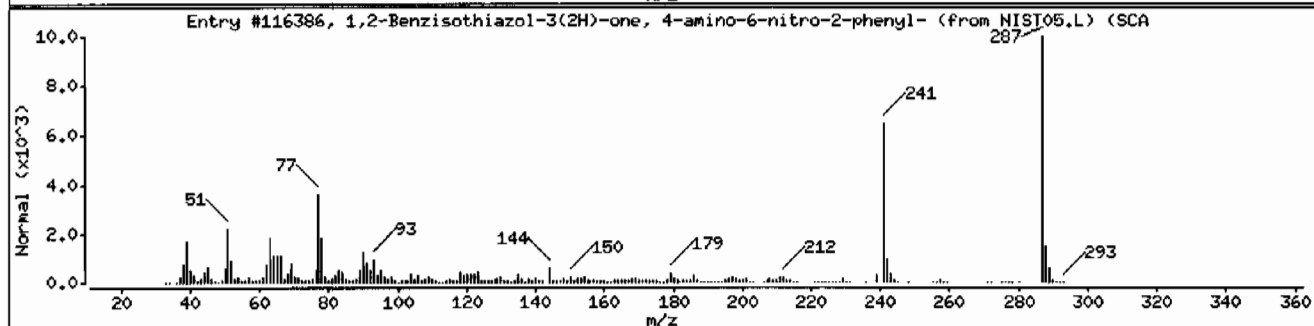
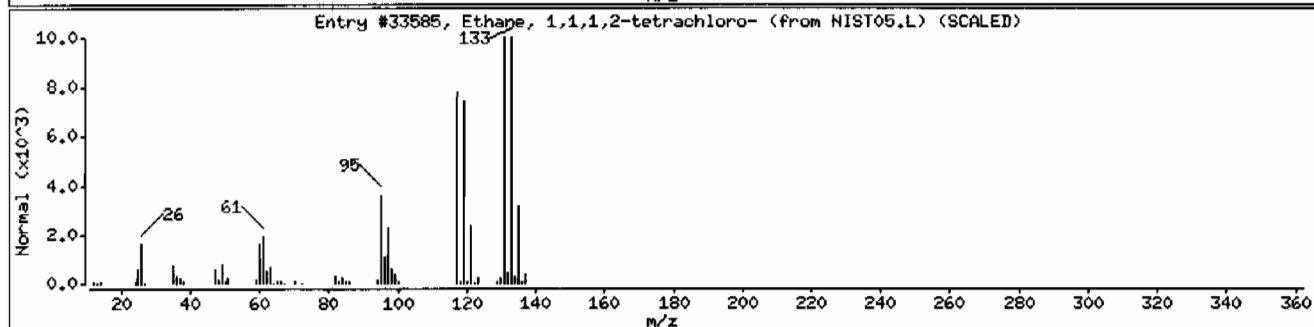
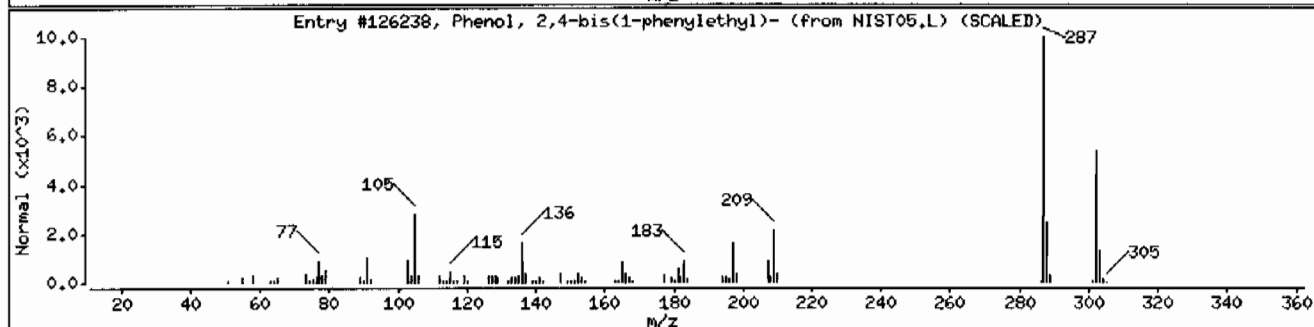
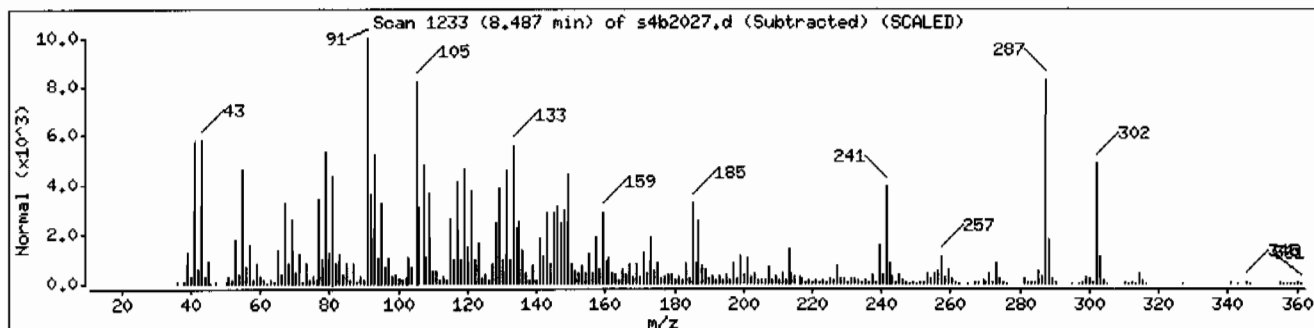
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Phenol, 2,4-bis(1-phenylethyl)-	2769-94-0	NIST05.L	126238	48	C22H22O	302
Ethane, 1,1,1,2-tetrachloro-	630-20-6	NIST05.L	33585	27	C2H2Cl4	166
1,2-Benzisothiazol-3(2H)-one, 4-amino-6-	1000277-42-1	NIST05.L	116386	20	C13H9N3O3S	287



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 12464340031951989111SVH111LANL

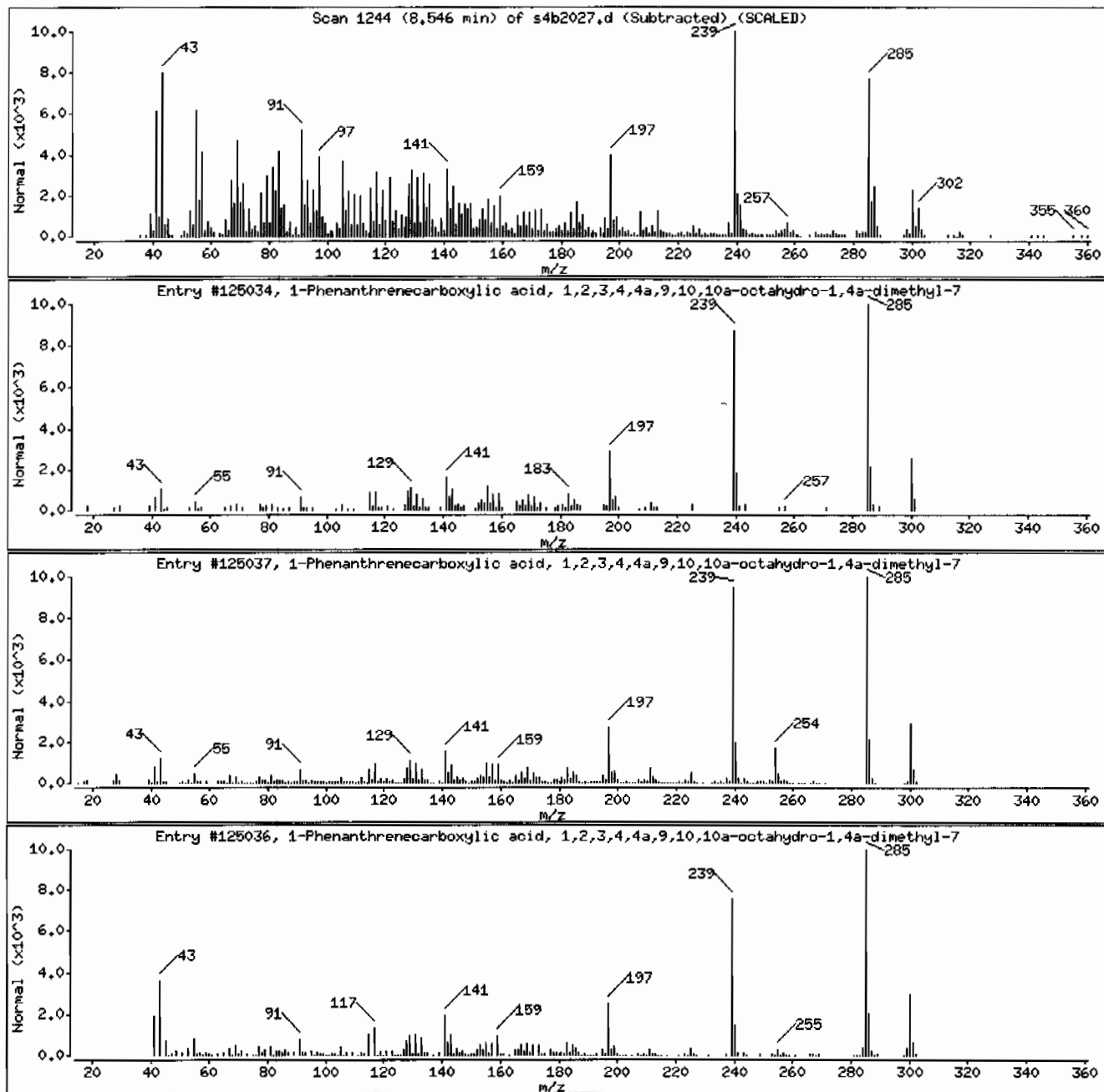
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1740-19-8	NIST05.L	125034	93	C20H28O2	300
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1740-19-8	NIST05.L	125037	83	C20H28O2	300
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1740-19-8	NIST05.L	125036	64	C20H28O2	300



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: HSD4.i

Sample Info: 12464340031951989111SVH111LANL

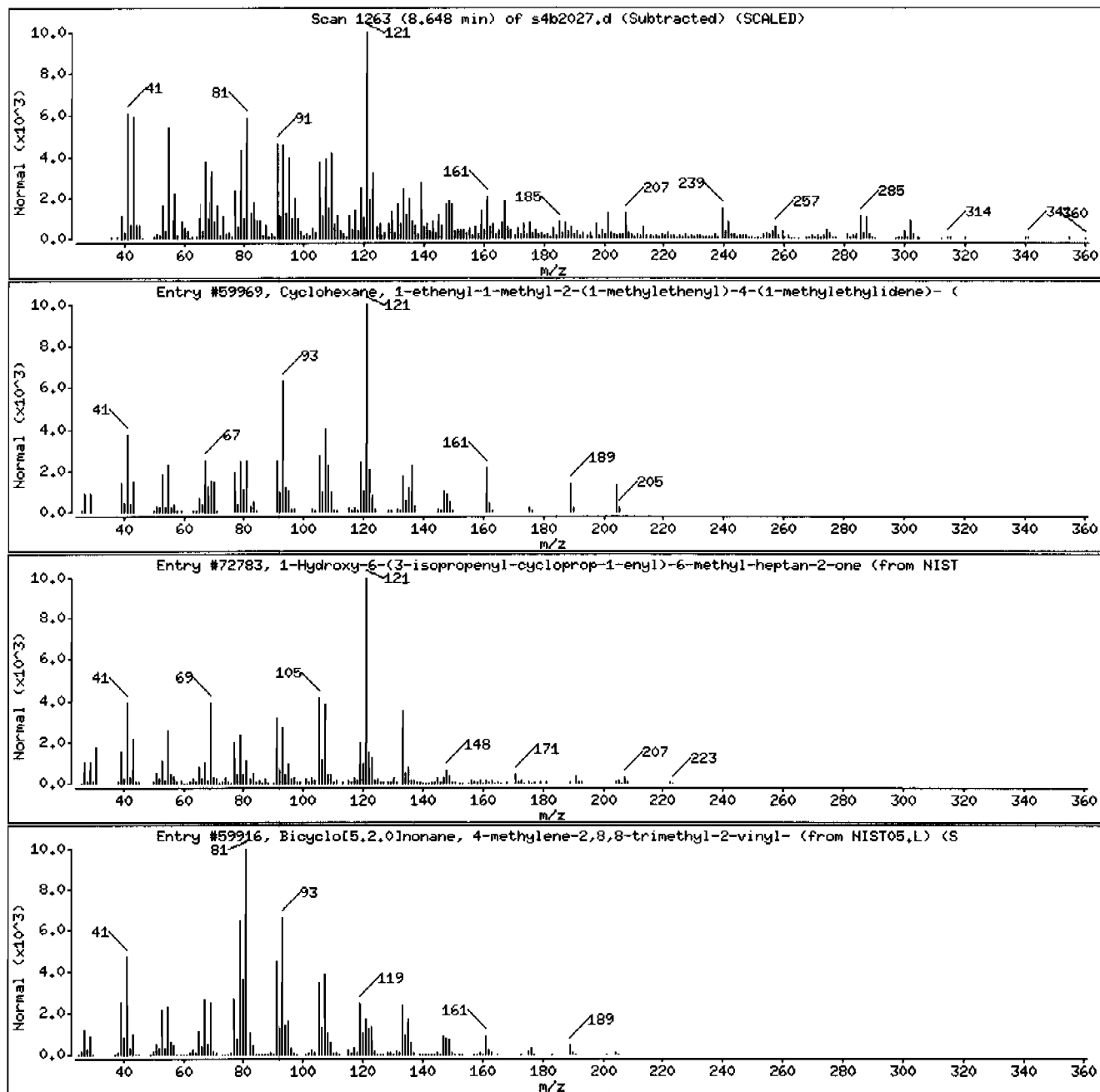
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, 1-ethenyl-1-methyl-2-(1-methyl-2-(1-methylethenyl)-4-(1-methylethylidene)-	3242-08-8	NIST05.L	59969	70	C15H24	204
1-Hydroxy-6-(3-isopropenyl-cycloprop-1-yl)-6-methyl-heptan-2-one	1000189-14-9	NIST05.L	72783	56	C14H22O2	222
Bicyclo[5.2.0]nonane, 4-methylene-2,8,8-trimethyl-2-vinyl-	1000159-38-2	NIST05.L	59916	49	C15H24	204



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 1246434003195198911ISVH11ILANL

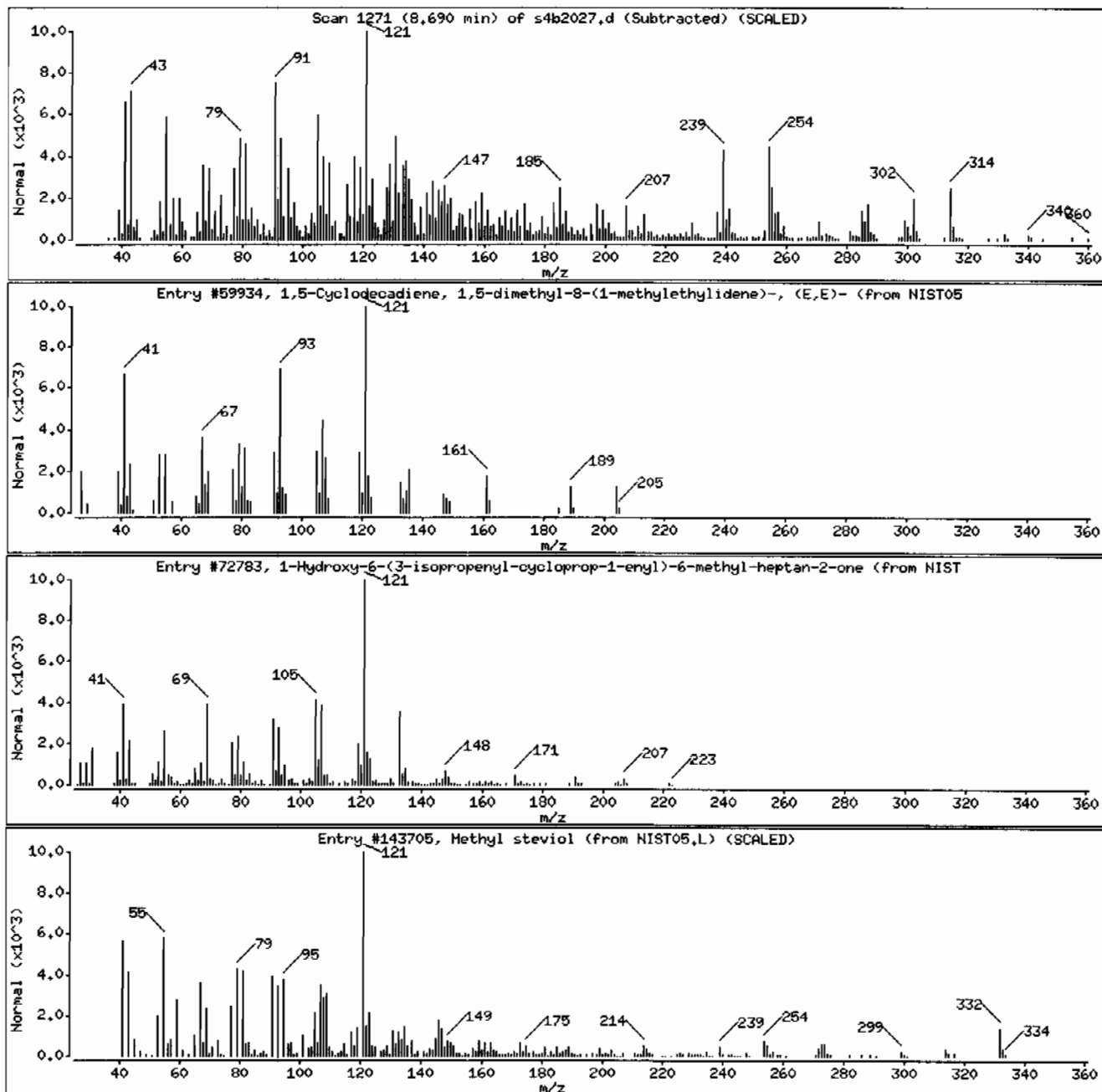
Volume Injected (uL): 0,5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0,20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,5-Cyclodecadiene, 1,5-dimethyl-8-(1-me	15423-57-1	NIST05.L	59934	47	C15H24	204
1-Hydroxy-6-(3-isopropenyl-cycloprop-1-e	1000189-14-9	NIST05.L	72783	38	C14H22O2	222
Methyl steviol	14364-16-0	NIST05.L	143705	30	C21H32O3	332



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 12464340031951989111SVMI11LANL

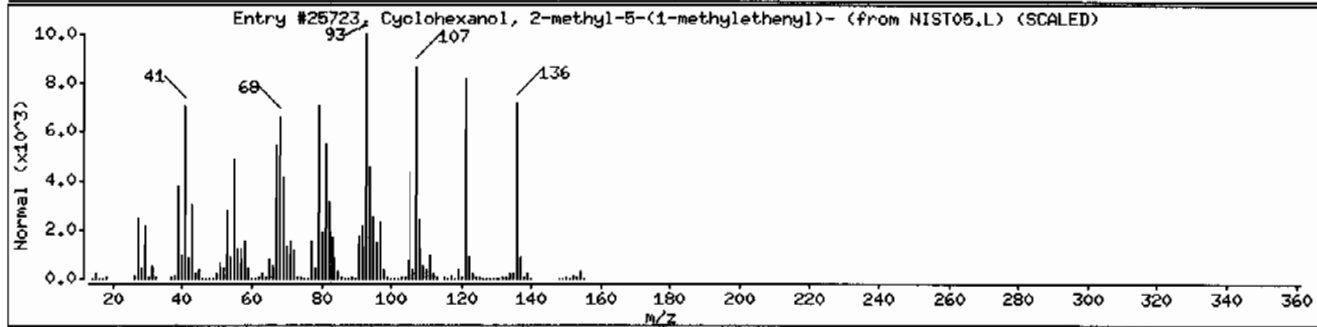
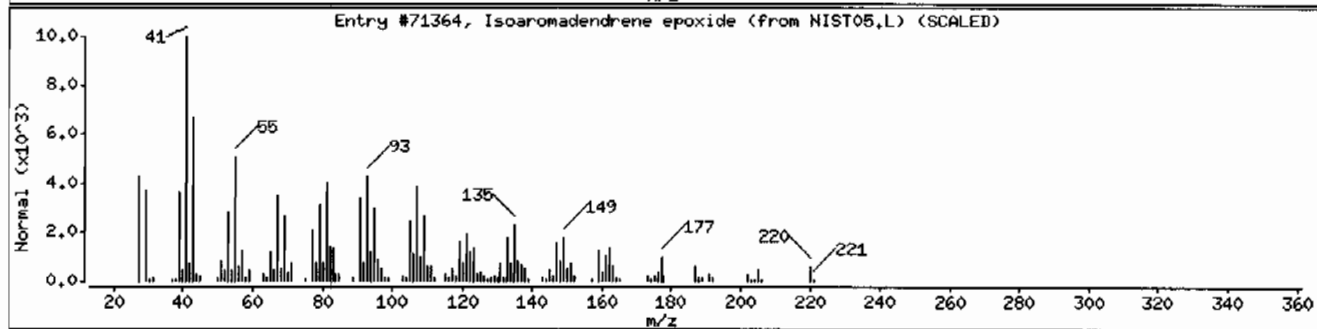
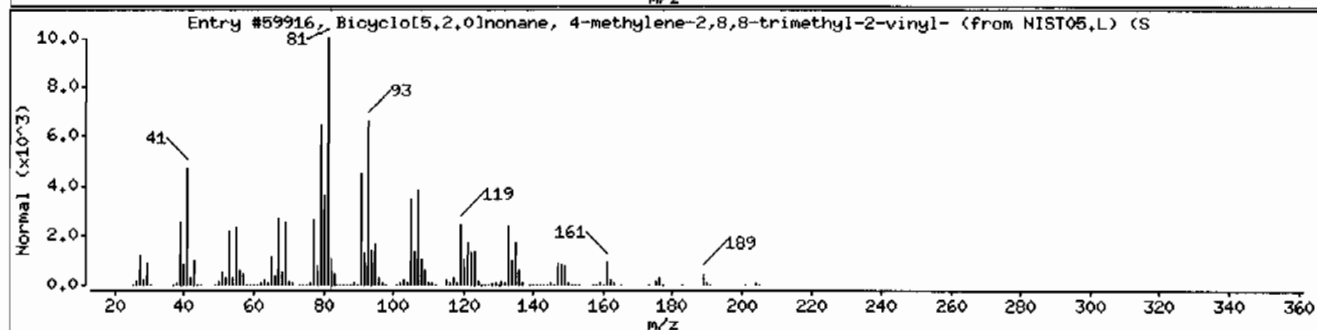
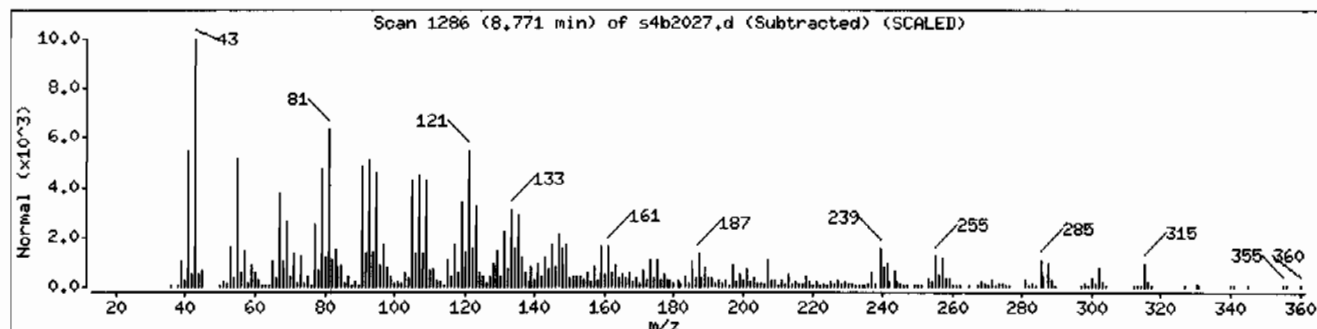
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Bicyclo[5,2,0]nonane, 4-methylene-2,8,8-	1000159-38-2	NIST05.L	59916	74	C15H24	204
Isoaromadendrene epoxide	1000159-36-6	NIST05.L	71364	72	C15H24O	220
Cyclohexanol, 2-methyl-5-(1-methylethenyl)-	619-01-2	NIST05.L	25723	53	C10H18O	154



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 12464340031951989111SVH111LANL

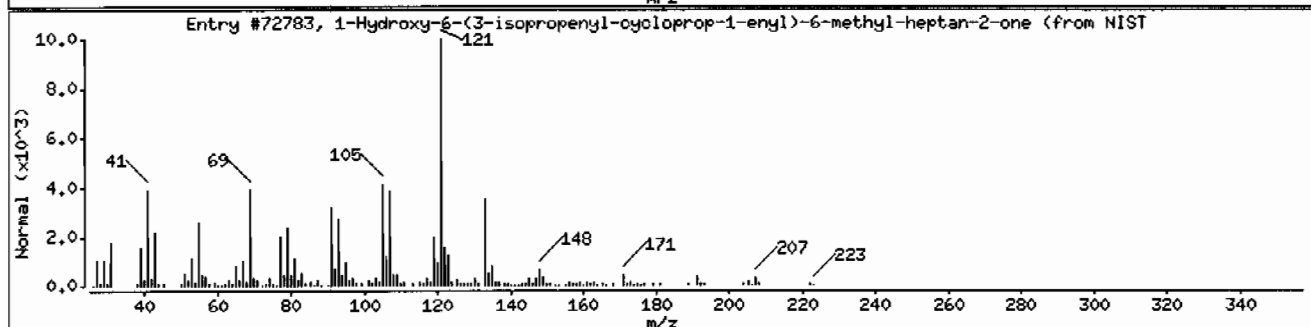
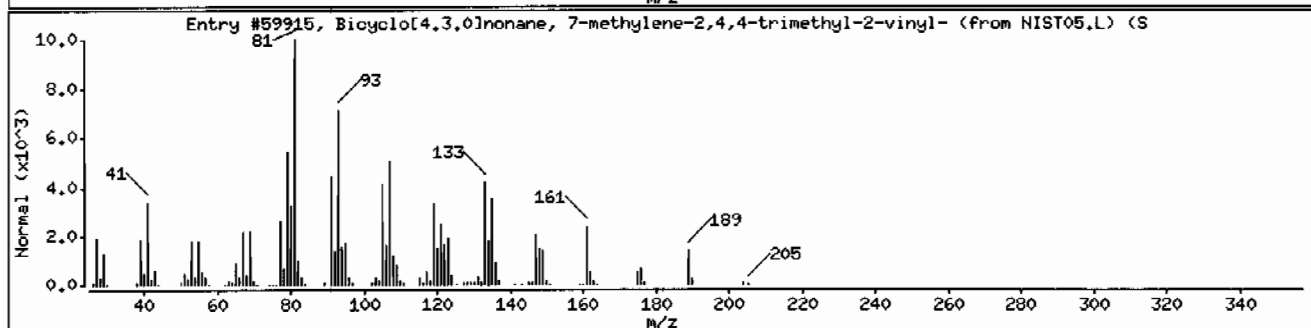
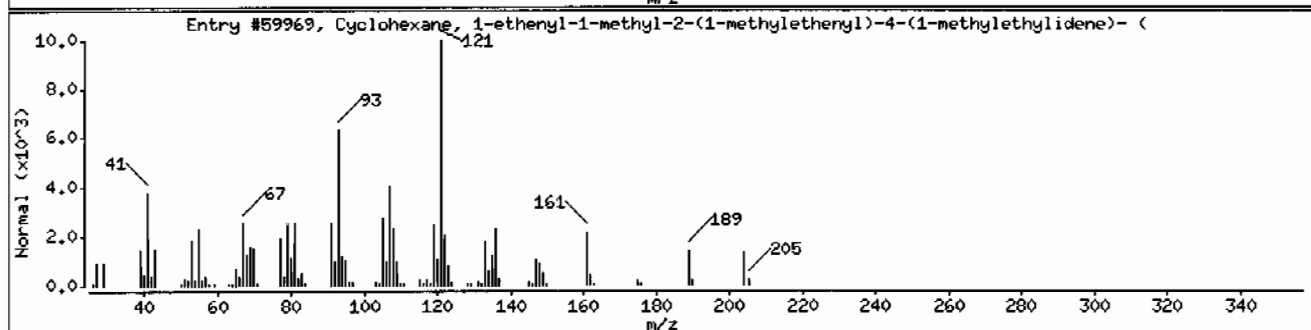
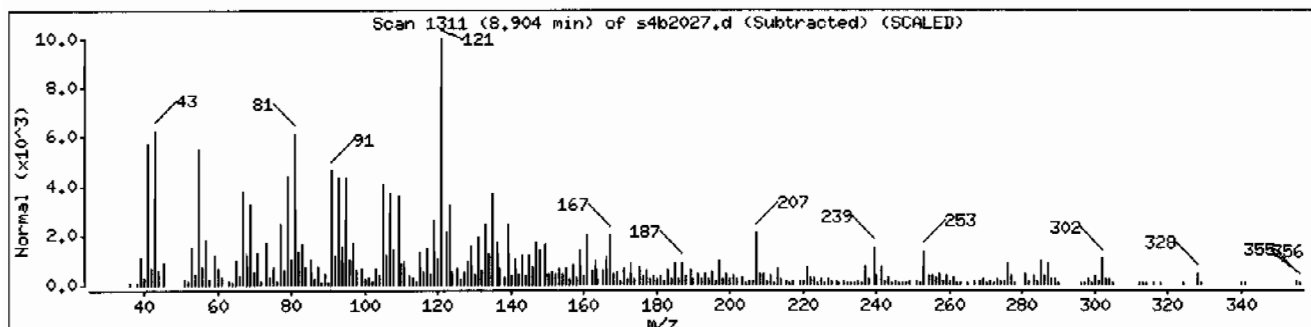
Volume Injected (UL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, 1-ethenyl-1-methyl-2-(1-methylethenyl)-4-(1-methylethylidene)-	3242-08-8	NIST05.L	59969	45	C15H24	204
Bicyclo[4.3.0]nonane, 7-methylene-2,4,4-trimethyl-2-vinyl-	1000156-11-9	NIST05.L	59915	44	C15H24	204
1-Hydroxy-6-(3-isopropenyl-cycloprop-1-enyl)-6-methyl-heptan-2-one	1000189-14-9	NIST05.L	72783	42	C14H22O2	222



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 1246434003195198911SVH111LANL

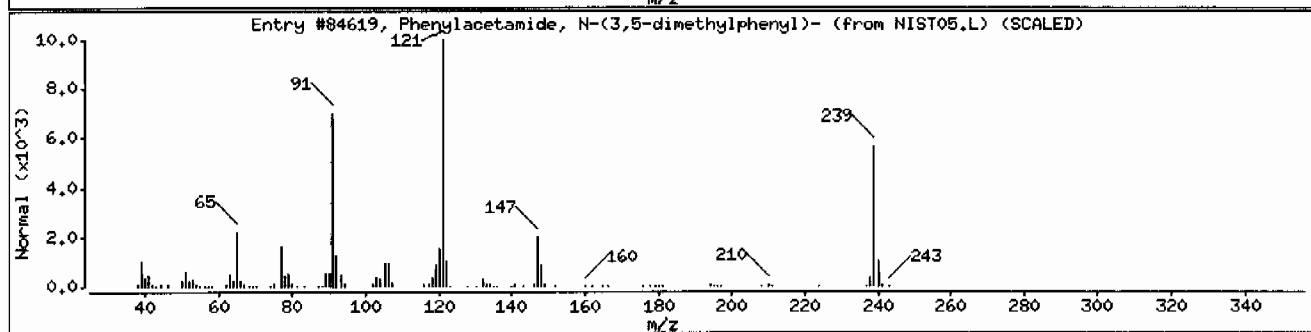
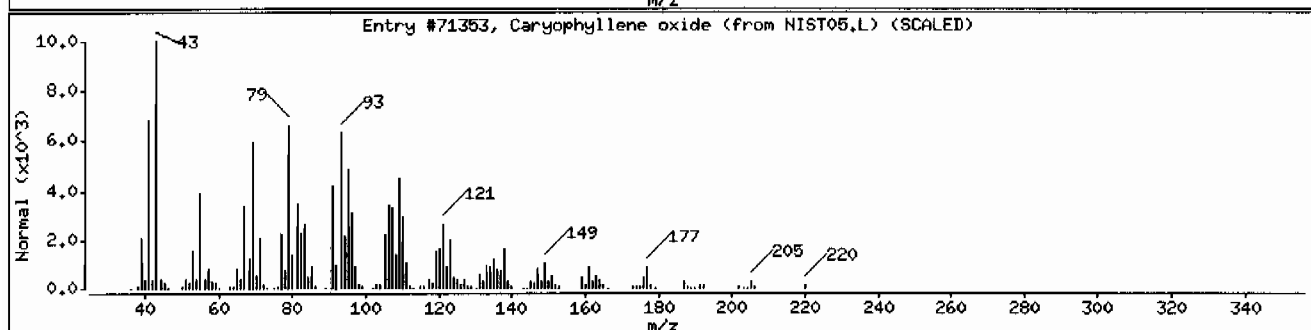
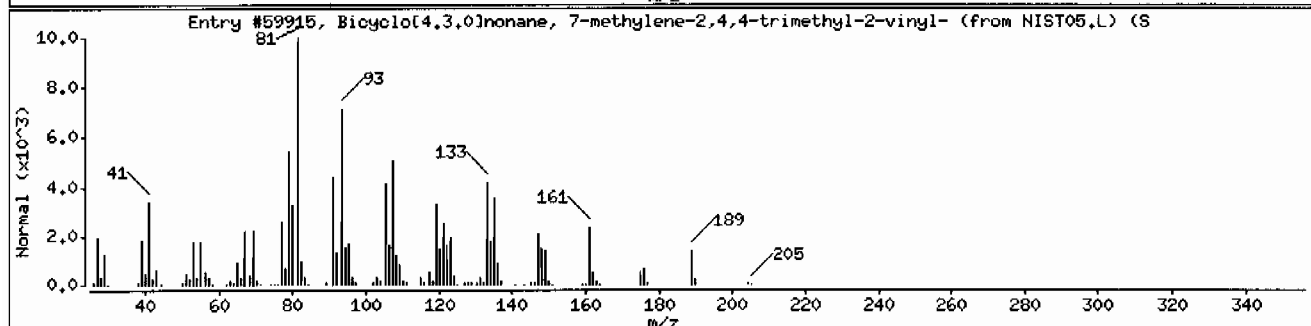
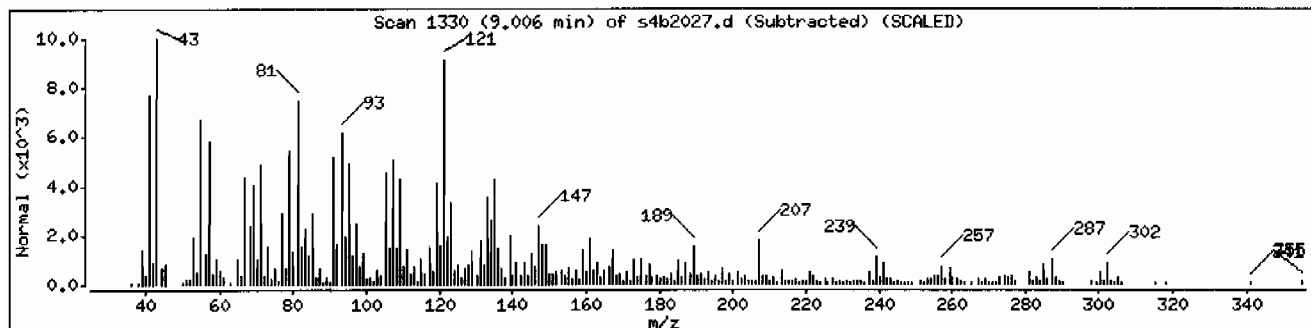
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Bicyclo[4.3.0]nonane, 7-methylene-2,4,4-	1000156-11-9	NIST05.L	59915	56	C15H24	204
Caryophyllene oxide	1139-30-6	NIST05.L	71353	47	C15H24O	220
Phenylacetamide, N-(3,5-dimethylphenyl)-	329937-72-6	NIST05.L	84619	44	C16H17NO	239



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 1246434003195198911SVH11ILANL

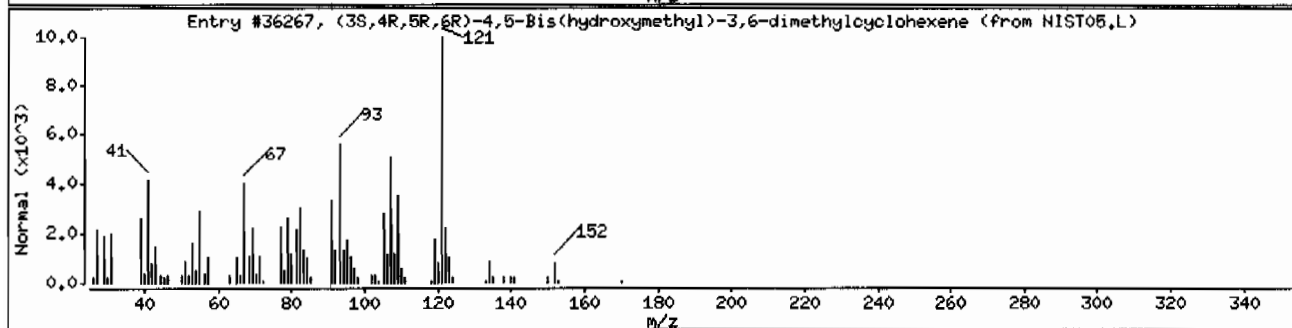
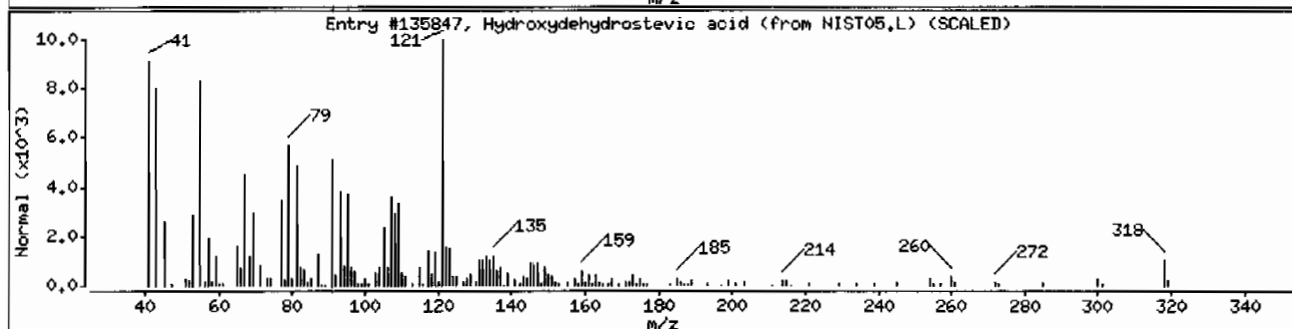
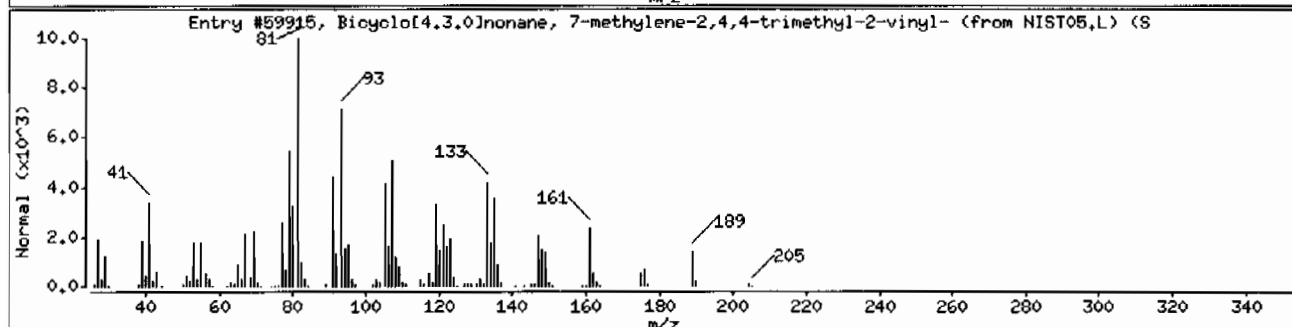
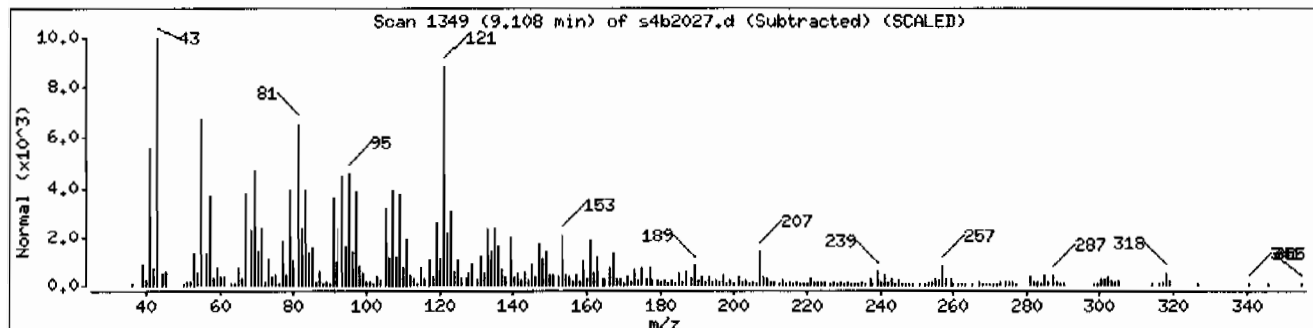
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Bicyclo[4.3.0]nonane, 7-methylene-2,4,4-	1000156-11-9	NIST05.L	59915	64	C15H24	204
Hydroxydehydrostevic acid	471-80-7	NIST05.L	135847	53	C20H30O3	318
(3S,4R,5R,6R)-4,5-Bis(hydroxymethyl)-3,6	1000099-24-3	NIST05.L	36267	38	C10H18O2	170



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: I246434003195198911ISVM11ILANL

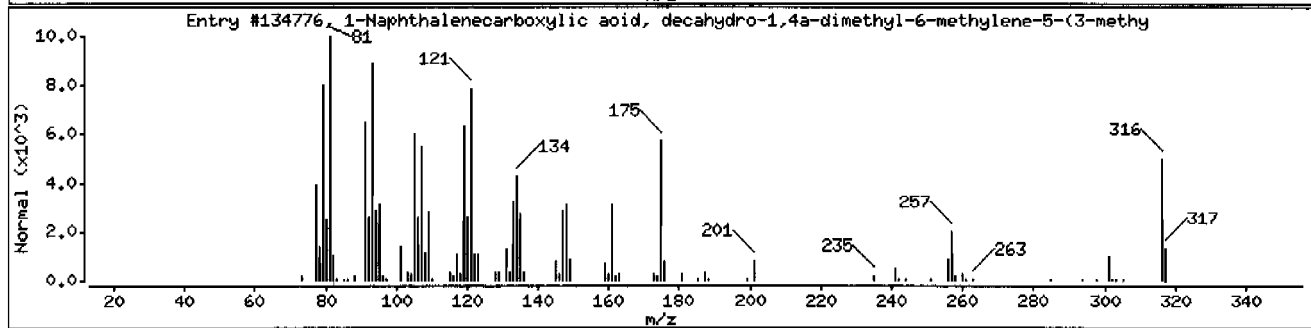
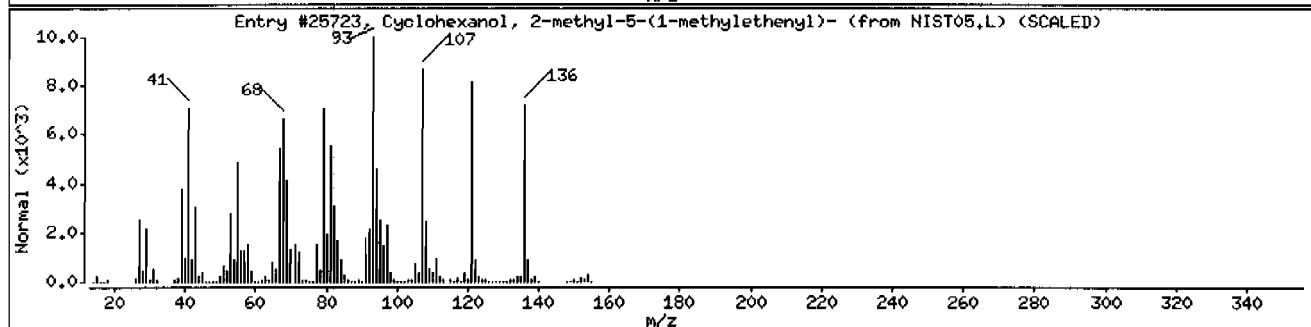
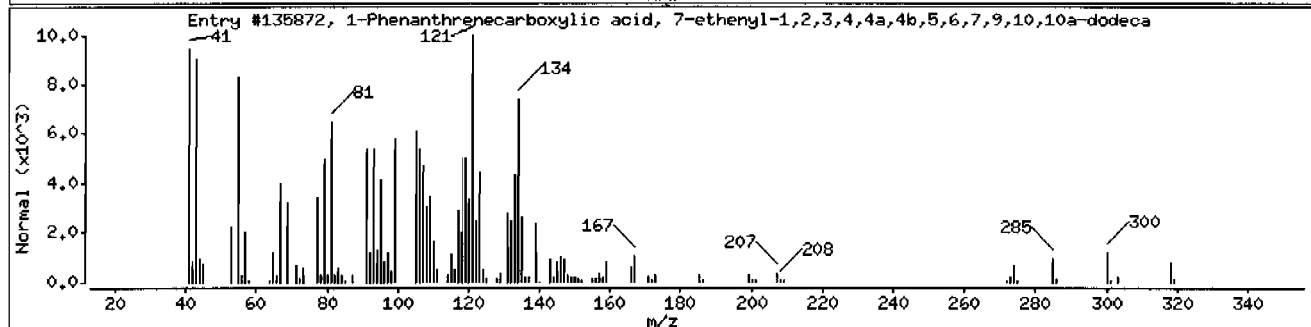
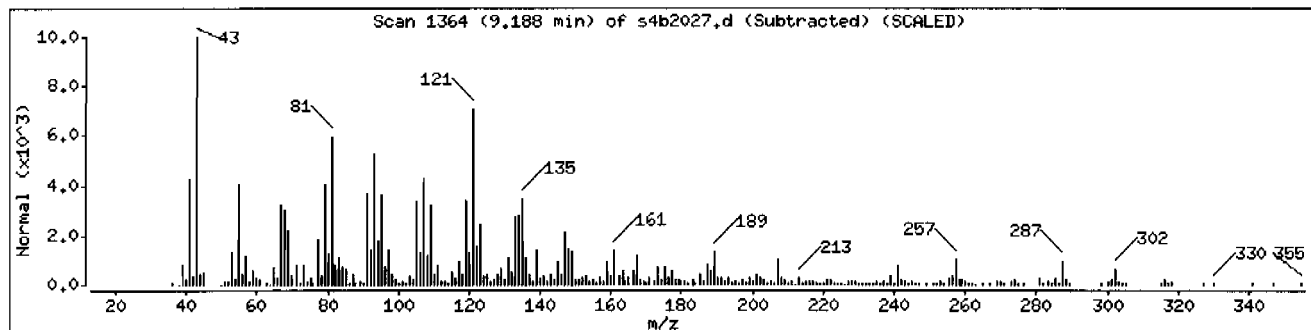
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Phenanthrenecarboxylic acid, 7-ethenyl	56051-66-2	NIST05.L	135872	53	C20H30O3	318
Cyclohexanol, 2-methyl-5-(1-methylethenyl)	619-01-2	NIST05.L	25723	44	C10H18O	154
1-Naphthalenecarboxylic acid, decahydro-	15798-13-7	NIST05.L	134776	43	C21H32O2	316



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: I2464340031951989111SVH111LANL

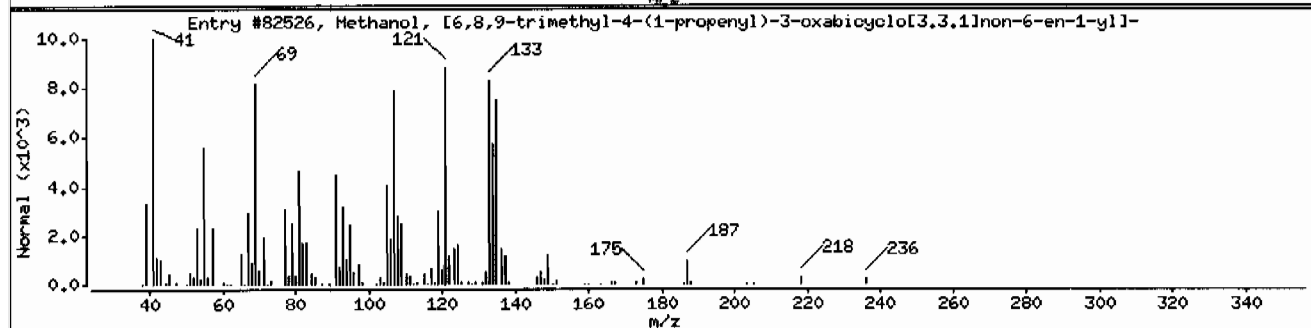
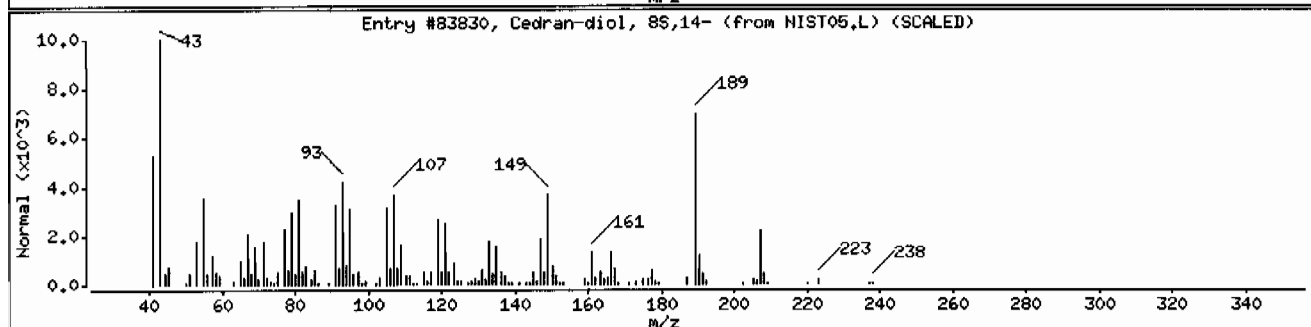
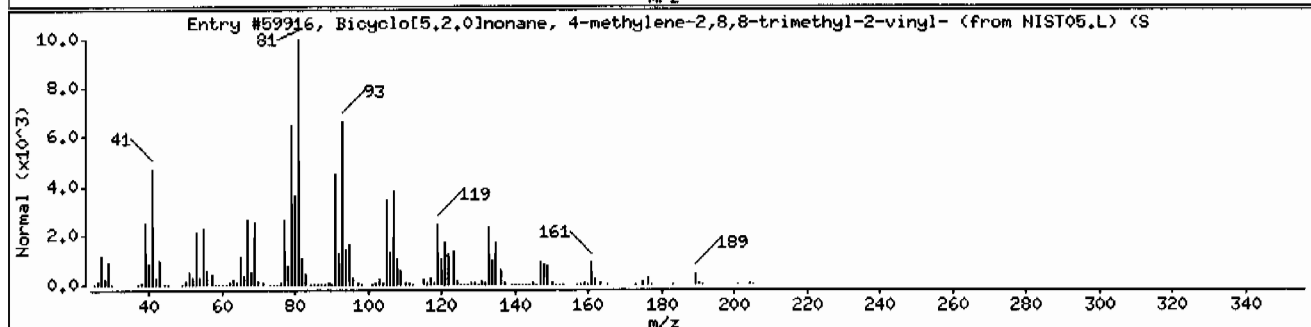
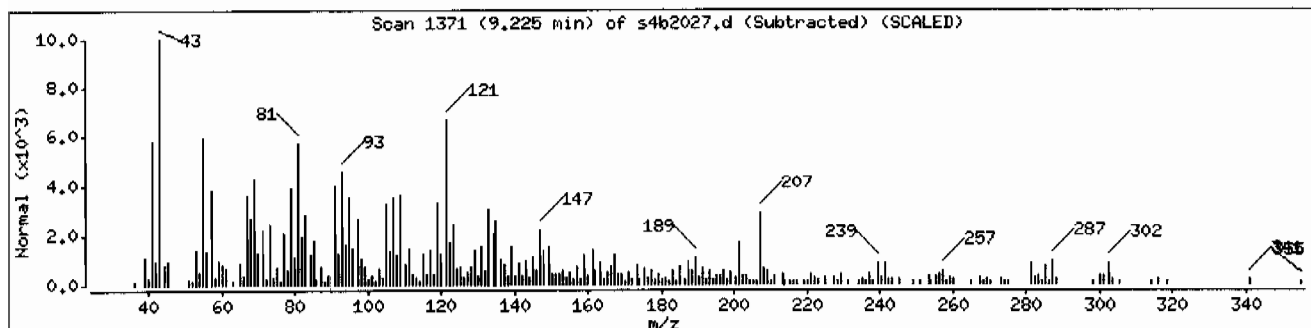
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Bicyclo[5.2.0]nonane, 4-methylene-2,8,8-	1000159-38-2	NIST05.L	59916	83	C15H24	204
Cedran-diol, 8S,14-	62600-05-9	NIST05.L	83830	59	C15H26O2	238
Methanol, [6,8,9-trimethyl-4-(1-propenyl	1000277-60-9	NIST05.L	82526	46	C15H24O2	236



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: I246434003I9519891IISVM11ILANL

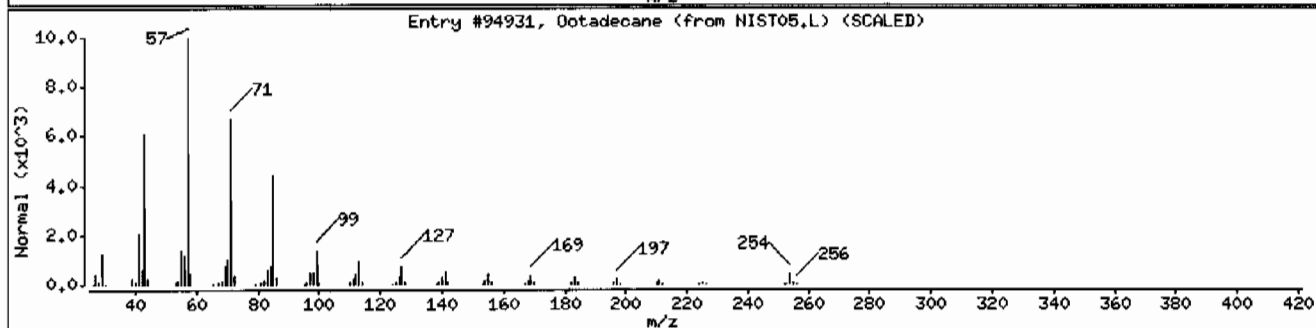
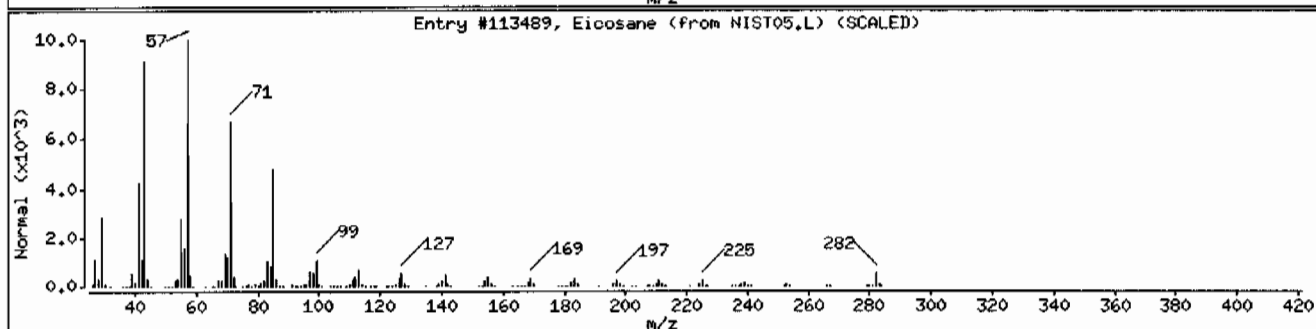
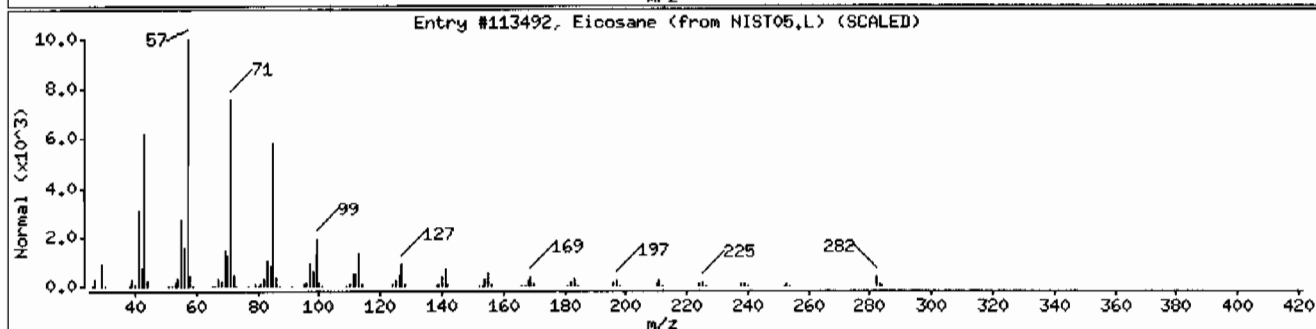
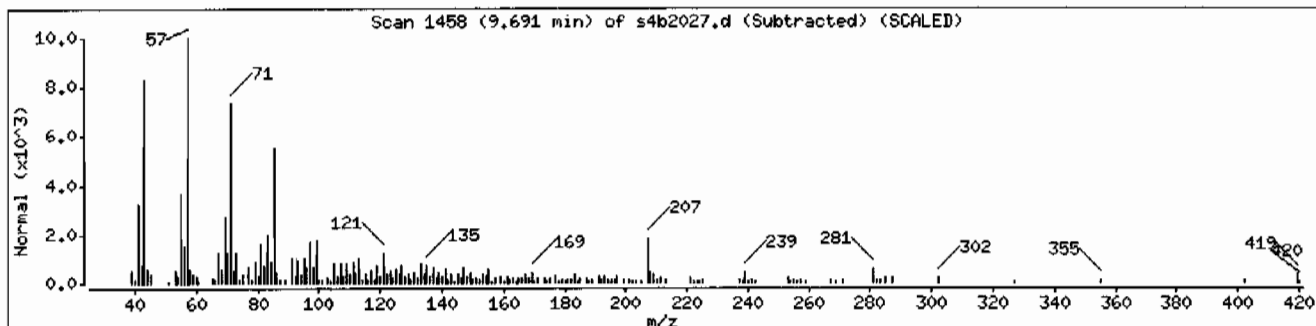
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Eicosane	112-95-8	NIST05.L	113492	97	C ₂₀ H ₄₂	282
Eicosane	112-95-8	NIST05.L	113489	96	C ₂₀ H ₄₂	282
Octadecane	593-45-3	NIST05.L	94931	95	C ₁₈ H ₃₈	254



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: HSD4.i

Sample Info: 1246434003195198911ISVMI1ILANL

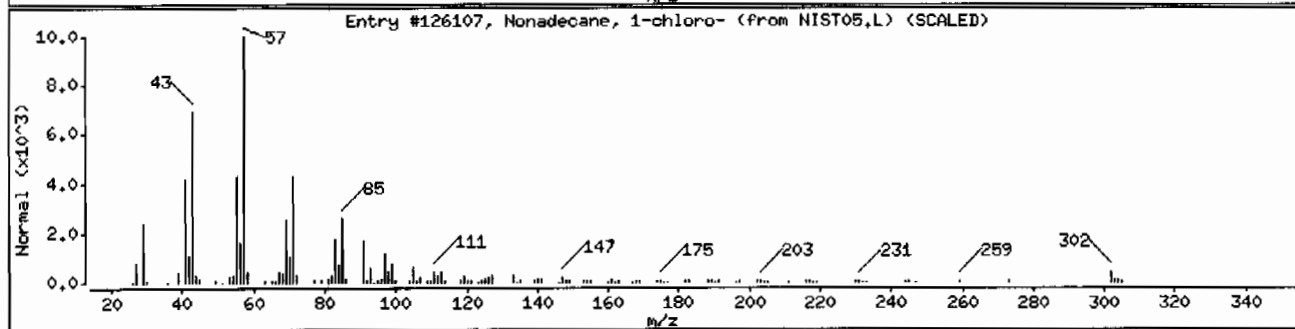
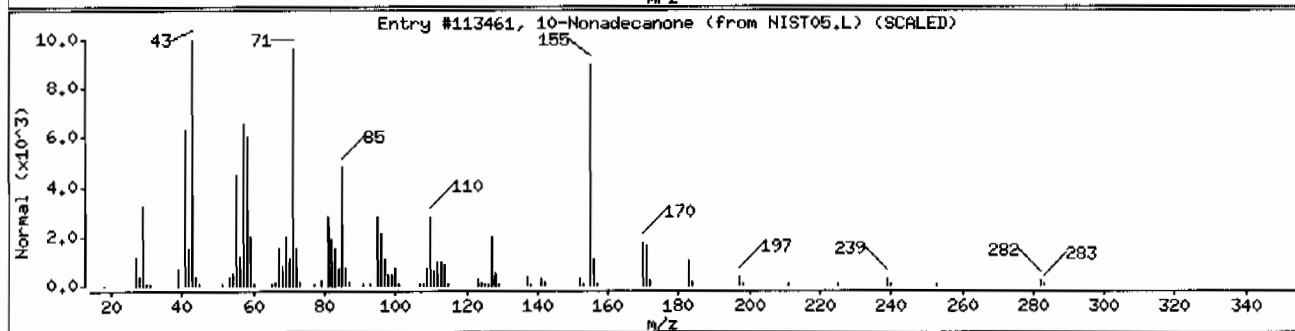
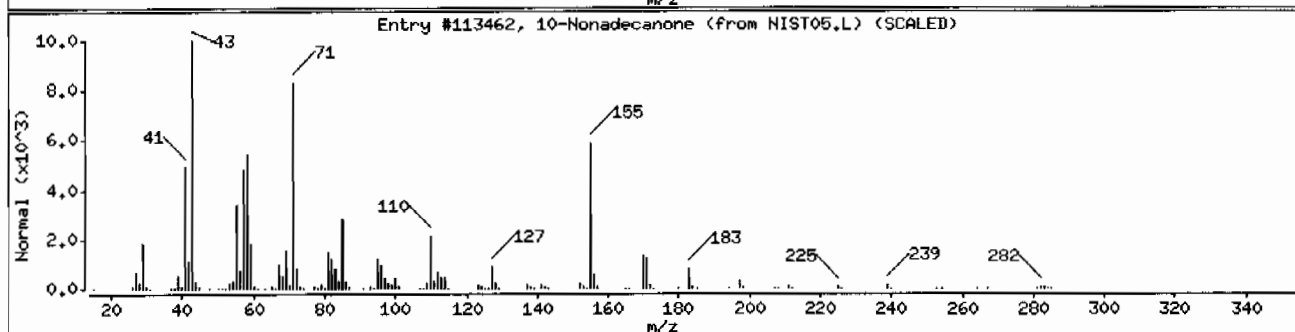
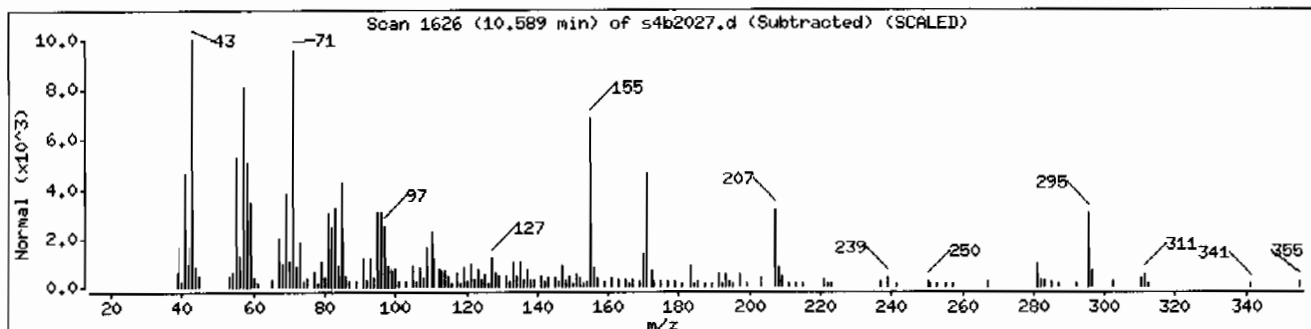
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
10-Nonadecanone	504-57-4	NIST05.L	113462	53	C19H38O	282
10-Nonadecanone	504-57-4	NIST05.L	113461	38	C19H38O	282
Nonadecane, 1-chloro-	62016-76-6	NIST05.L	126107	35	C19H39Cl	302



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: I246434003195198911SVH11ILANL

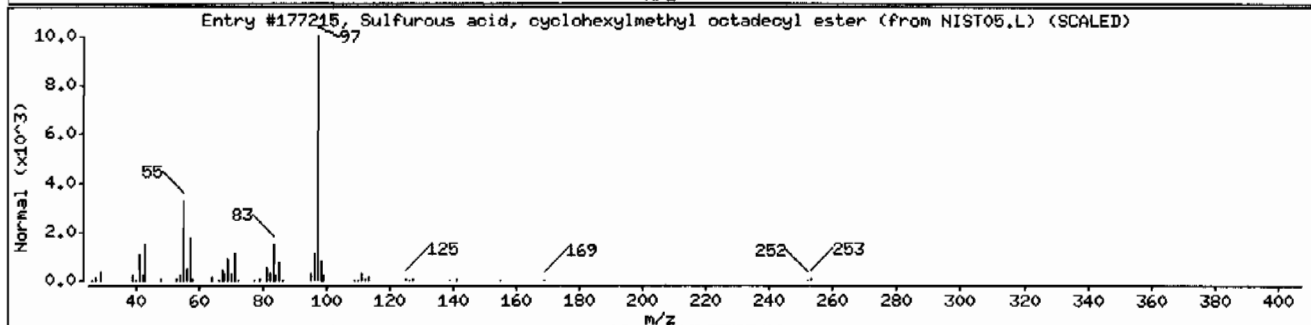
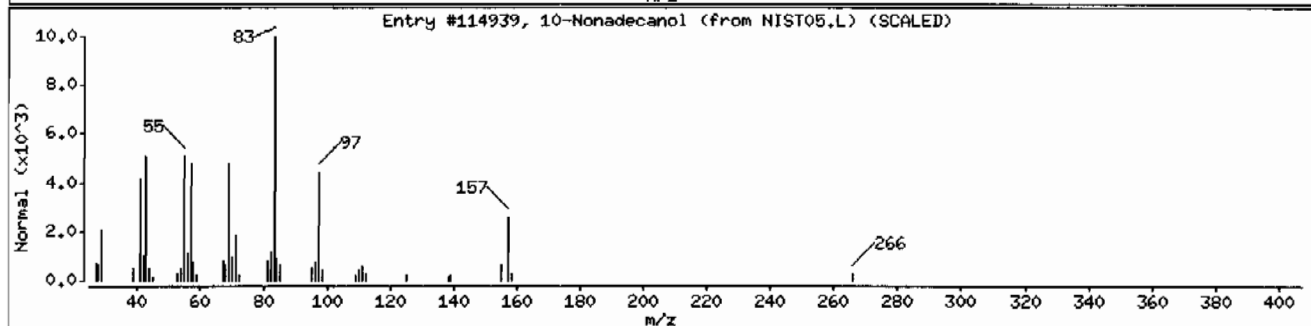
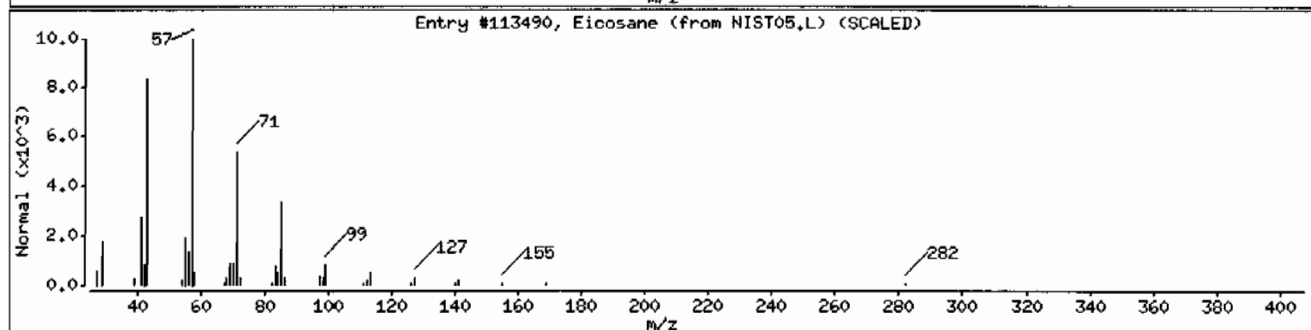
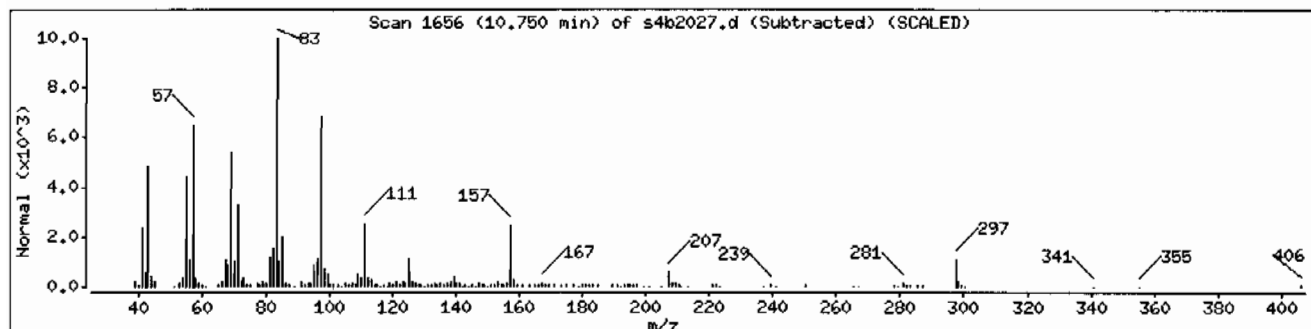
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Eicosane	112-95-8	NIST05.L	113490	59	C20H42	282
10-Nonadecanol	16840-84-9	NIST05.L	114939	52	C19H40O	284
Sulfurous acid, cyclohexylmethyl octadec	1000309-22-6	NIST05.L	177215	43	C25H50O3S	430



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: I2464340031951989111SVMI11LANL

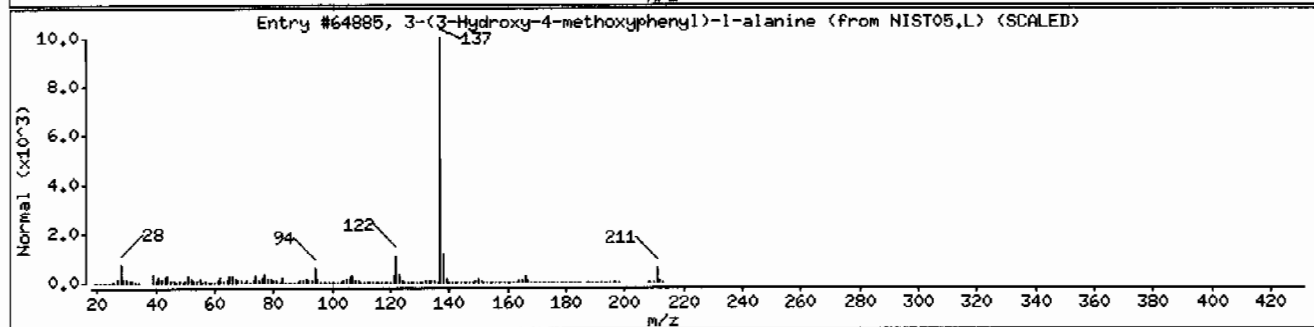
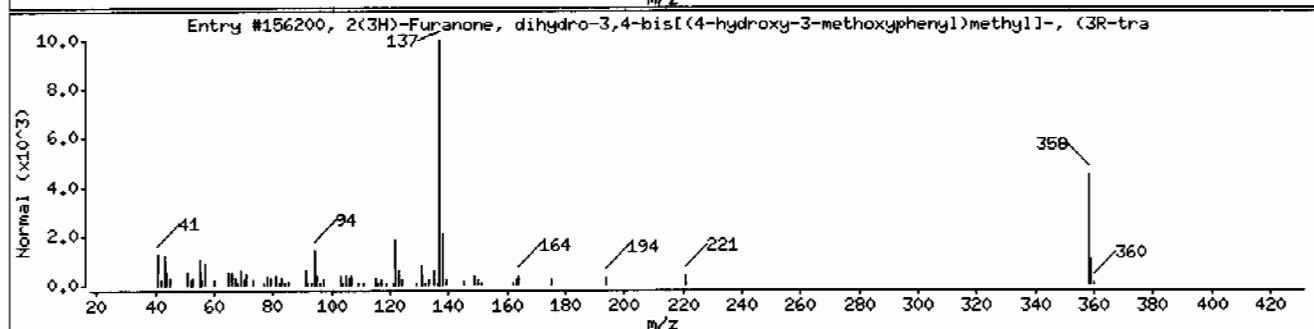
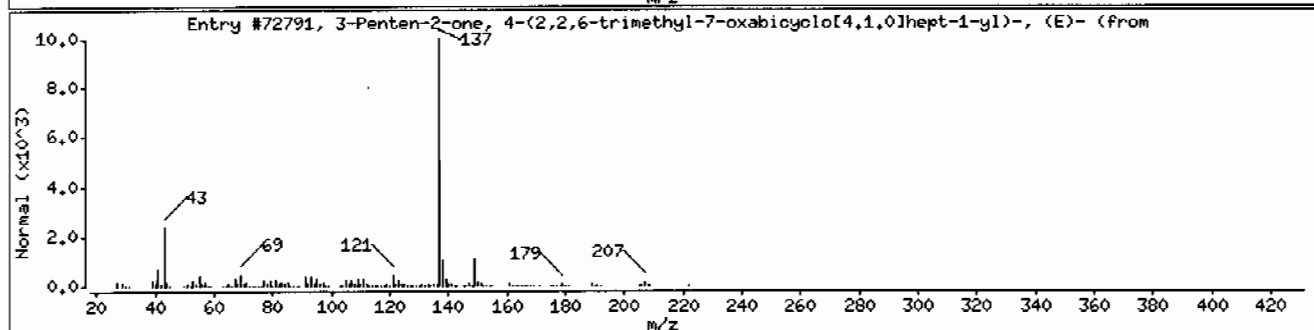
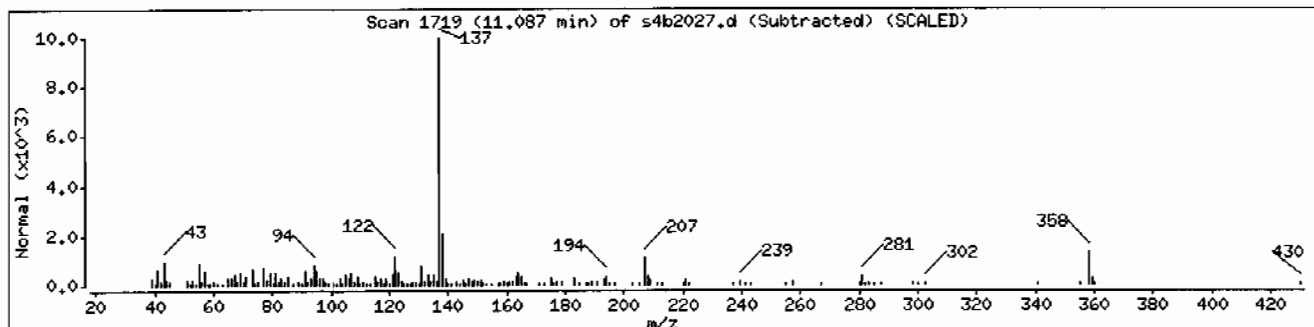
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3-Penten-2-one, 4-(2,2,6-trimethyl-7-oxa	89128-12-1	NIST05.L	72791	64	C14H22O2	222
2(3H)-Furanone, dihydro-3,4-bis[(4-hydro	580-72-3	NIST05.L	156200	64	C20H22O6	358
3-(3-Hydroxy-4-methoxyphenyl)-l-alanine	1000103-80-4	NIST05.L	64885	58	C10H13NO4	211



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 12464340031951989111SVH111LANL

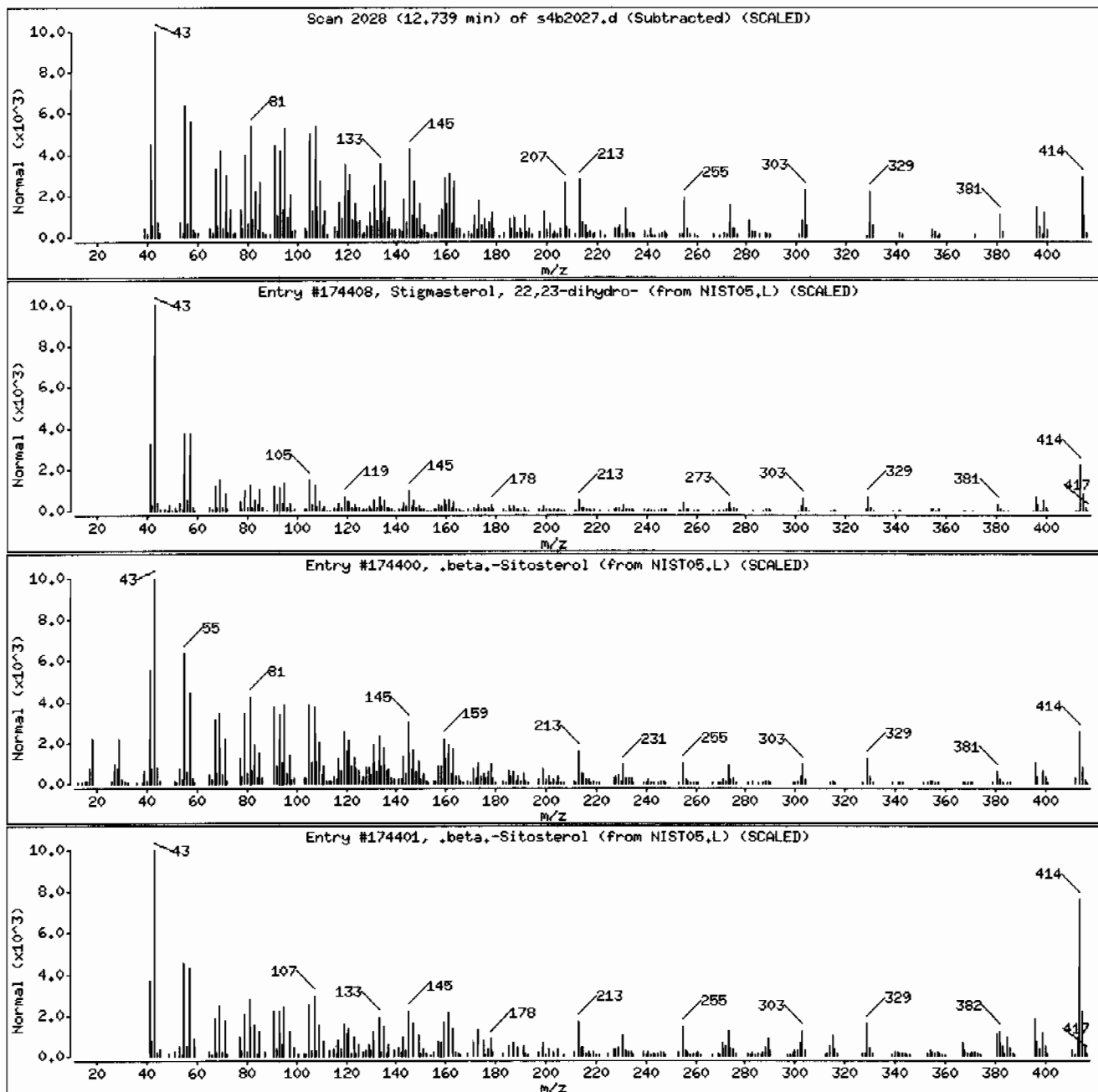
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Stigmasterol, 22,23-dihydro-	1000214-20-7	NIST05.L	174408	99	C ₂₉ H ₅₀ O	414
.beta.-Sitosterol	83-46-5	NIST05.L	174400	95	C ₂₉ H ₅₀ O	414
.beta.-Sitosterol	83-46-5	NIST05.L	174401	94	C ₂₉ H ₅₀ O	414



Date : 20-FEB-2010 20:20

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: I2464340031951989111SVH111LANL

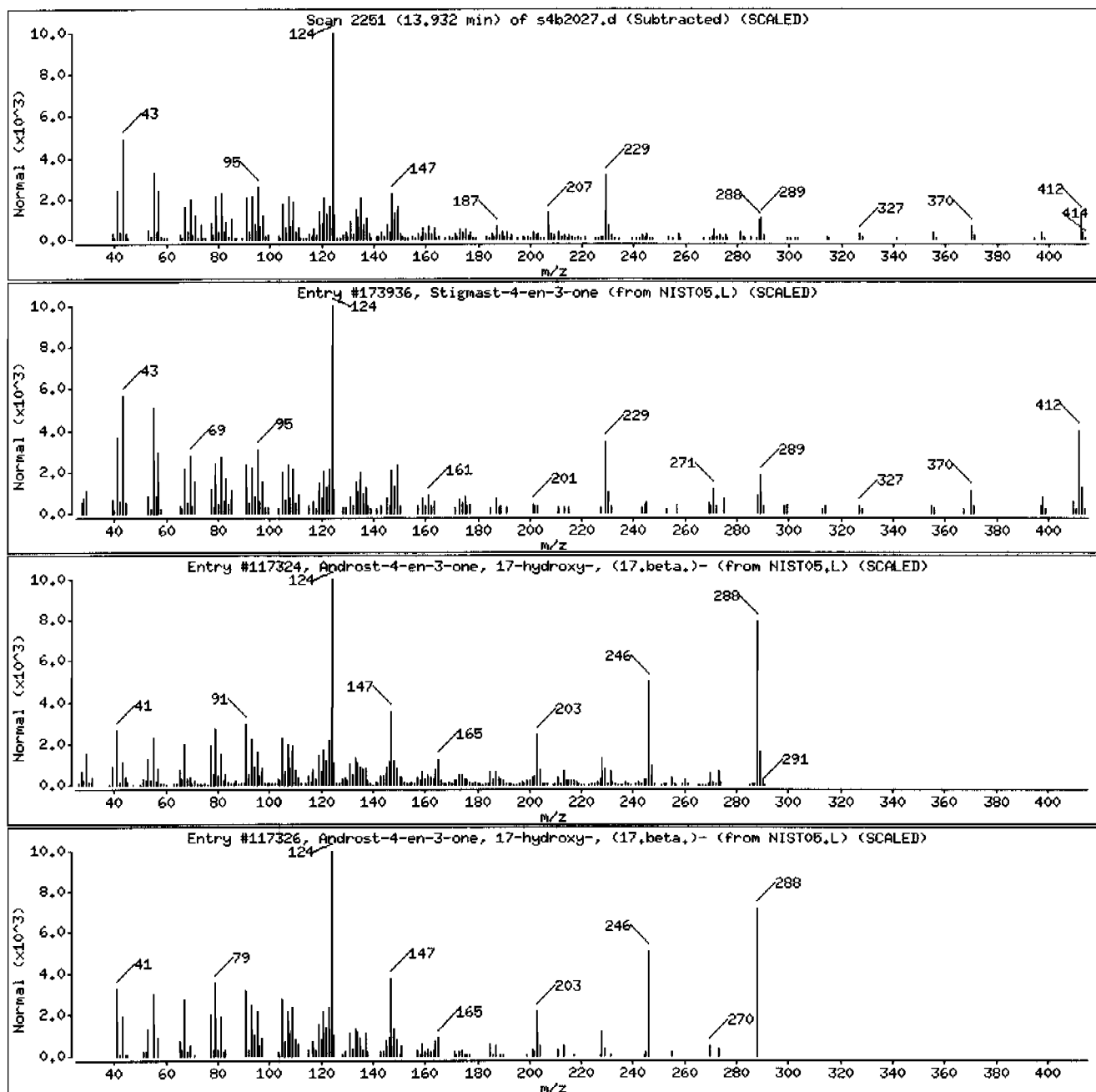
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Stigmast-4-en-3-one	1058-61-3	NIST05.L	173936	96	C29H48O	412
Androst-4-en-3-one, 17-hydroxy-, (17.bet	58-22-0	NIST05.L	117324	78	C19H28O2	288
Androst-4-en-3-one, 17-hydroxy-, (17.bet	58-22-0	NIST05.L	117326	64	C19H28O2	288



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434009	Date Received: 02/06/2010 09:15	%Moisture: 6
Client ID: RE15-10-8357	Client: LANL010	Project: LANL01004
Batch ID: 951989	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/21/2010 14:40	Inst: MSD4.1	Dilution: 1
Prep Date: 02/11/2010 22:25	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4b2114.d	Aliquot: 30.12 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	353	ug/kg	70.6	353
108-95-2	Phenol	U	353	ug/kg	70.6	353
95-57-8	2-Chlorophenol	U	353	ug/kg	70.6	353
106-46-7	1,4-Dichlorobenzene	U	353	ug/kg	70.6	353
621-64-7	N-Nitrosodipropylamine	U	353	ug/kg	70.6	353
59-50-7	4-Chloro-3-methylphenol	U	353	ug/kg	70.6	353
83-32-9	Acenaphthene	U	35.3	ug/kg	11.6	35.3
121-14-2	2,4-Dinitrotoluene	U	353	ug/kg	35.3	353
100-02-7	4-Nitrophenol	U	353	ug/kg	116	353
87-86-5	Pentachlorophenol	U	353	ug/kg	88.3	353
129-00-0	Pyrene	U	35.3	ug/kg	10.6	35.3
110-86-1	Pyridine	U	353	ug/kg	70.6	353
62-53-3	Aniline	U	353	ug/kg	106	353
111-44-4	bis(2-Chloroethyl) ether	U	353	ug/kg	70.6	353
541-73-1	1,3-Dichlorobenzene	U	353	ug/kg	70.6	353
100-51-6	Benzyl alcohol	U	353	ug/kg	106	353
95-50-1	1,2-Dichlorobenzene	U	353	ug/kg	70.6	353
108-60-1	bis(2-Chloroisopropyl)ether	U	353	ug/kg	70.6	353
95-48-7	o-Cresol	U	353	ug/kg	70.6	353
65794-96-9	m,p-Cresols	U	353	ug/kg	106	353
67-72-1	Hexachloroethane	U	353	ug/kg	70.6	353
98-95-3	Nitrobenzene	U	353	ug/kg	70.6	353
78-59-1	Isophorone	U	353	ug/kg	70.6	353
88-75-5	2-Nitrophenol	U	353	ug/kg	70.6	353
105-67-9	2,4-Dimethylphenol	U	353	ug/kg	124	353
111-91-1	bis(2-Chloroethoxy)methane	U	353	ug/kg	70.6	353
120-83-2	2,4-Dichlorophenol	U	353	ug/kg	70.6	353
65-85-0	Benzoic acid	U	706	ug/kg	177	706
91-20-3	Naphthalene	U	35.3	ug/kg	10.6	35.3
106-47-8	4-Chloroaniline	U	353	ug/kg	70.6	353
87-68-3	Hexachlorobutadiene	U	353	ug/kg	70.6	353
91-57-6	2-Methylnaphthalene	U	35.3	ug/kg	7.06	35.3
77-47-4	Hexachlorocyclopentadiene	U	353	ug/kg	70.6	353
88-06-2	2,4,6-Trichlorophenol	U	353	ug/kg	70.6	353
95-95-4	2,4,5-Trichlorophenol	U	353	ug/kg	70.6	353
91-58-7	2-Chloronaphthalene	U	35.3	ug/kg	11.6	35.3
88-74-4	2-Nitroaniline	U	353	ug/kg	70.6	353
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	353	ug/kg	70.6	353

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 246434009

Client ID: RE15-10-8357
Batch ID: 951989
Run Date: 02/21/2010 14:40
Prep Date: 02/11/2010 22:25
Data File: s4b2114.d

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.12 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	353	ug/kg	70.6	353
606-20-2	2,6-Dinitrotoluene	U	353	ug/kg	35.3	353
208-96-8	Acenaphthylene	U	35.3	ug/kg	10.6	35.3
51-28-5	2,4-Dinitrophenol	U	706	ug/kg	134	706
132-64-9	Dibenzofuran	U	353	ug/kg	70.6	353
84-66-2	Diethylphthalate	U	353	ug/kg	70.6	353
86-73-7	Fluorene	U	35.3	ug/kg	10.6	35.3
7005-72-3	4-Chlorophenylphenylether	U	353	ug/kg	70.6	353
534-52-1	2-Methyl-4,6-dinitrophenol	U	353	ug/kg	70.6	353
100-01-6	4-Nitroaniline	U	353	ug/kg	106	353
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	353	ug/kg	70.6	353
122-66-7	Azobenzene	U	353	ug/kg	70.6	353
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	353	ug/kg	70.6	353
118-74-1	Hexachlorobenzene	U	353	ug/kg	70.6	353
85-01-8	Phenanthrene	U	35.3	ug/kg	10.6	35.3
120-12-7	Anthracene	U	35.3	ug/kg	7.06	35.3
84-74-2	Di-n-butylphthalate	U	353	ug/kg	70.6	353
206-44-0	Fluoranthene	U	35.3	ug/kg	10.6	35.3
85-68-7	Butylbenzylphthalate	U	353	ug/kg	70.6	353
56-55-3	Benzo(a)anthracene	U	35.3	ug/kg	10.6	35.3
91-94-1	3,3'-Dichlorobenzidine	U	353	ug/kg	106	353
218-01-9	Chrysene	U	35.3	ug/kg	10.6	35.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	353	ug/kg	70.6	353
117-84-0	Di-n-octylphthalate	U	353	ug/kg	70.6	353
205-99-2	Benzo(b)fluoranthene	U	35.3	ug/kg	10.6	35.3
207-08-9	Benzo(k)fluoranthene	U	35.3	ug/kg	10.6	35.3
50-32-8	Benzo(a)pyrene	U	35.3	ug/kg	10.6	35.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.3	ug/kg	10.6	35.3
53-70-3	Dibenzo(a,h)anthracene	U	35.3	ug/kg	10.6	35.3
191-24-2	Benzo(ghi)perylene	U	35.3	ug/kg	10.6	35.3
120-82-1	1,2,4-Trichlorobenzene	U	353	ug/kg	70.6	353

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.94	483	ug/kg		J
	Unknown	5.16	229	ug/kg		J

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number:	10-1620	Date Collected:	02/02/2010 12:00	Matrix:	R
Lab Sample ID:	246434009	Date Received:	02/06/2010 09:15	%Moisture:	6
Client ID:	RE15-10-8357	Client:	LANL010	Project:	LANL01004
Batch ID:	951989	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Run Date:	02/21/2010 14:40	Inst:	MSD4.I	Dilution:	1
Prep Date:	02/11/2010 22:25	Analyst:	JMB3	Inj. Vol:	.5 uL
Data File:	s4b2114.d	Aliquot:	30.12 g	Final Volume:	1 mL
		Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.75	153	ug/kg	99	NJ
	Unknown	8.26	243	ug/kg		J
	Unknown	10.7	189	ug/kg		J
83-47-6	.gamma.-Sitosterol	12.7	191	ug/kg	91	NJ

Data File: /chem/MSD4.i/s022110a.b/s4b2114.d
Report Date: 22-Feb-2010 08:14

Page 1

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Data file : /chem/MSD4.i/s022110a.b/s4b2114.d
Lab Smp Id: 246434009 Client Smp ID: RE15-10-8357
Inj Date : 21-FEB-2010 14:40
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |246434009|951989|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1620.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.12000	weight of sample
M	5.95010	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.898	3.903	(1.000)	133439	40.0000		
* 29 Naphthalene-d8	136	4.765	4.770	(1.000)	509078	40.0000		
* 46 Acenaphthene-d10	164	6.021	6.027	(1.000)	282921	40.0000		
* 67 Phenanthrene-d10	188	7.011	7.016	(1.000)	467539	40.0000		
* 91 Chrysene-d12	240	8.696	8.717	(1.000)	412807	40.0000		
* 98 Perylene-d12	264	10.215	10.236	(1.000)	337115	40.0000		
\$ 3 2-Fluorophenol	112	3.096	3.090	(0.794)	259638	68.2842	2410	
\$ 5 Phenol-d5	99	3.609	3.614	(0.926)	336597	70.4648	2490	
\$ 20 Nitrobenzene-d5	82	4.262	4.267	(0.894)	148150	37.8965	1340	
\$ 39 2-Fluorobiphenyl	172	5.508	5.513	(0.915)	245240	33.5709	1180	
\$ 60 2,4,6-Tribromophenol	329	6.556	6.561	(1.089)	81155	91.7197	3240	
\$ 81 p-Terphenyl-d14	244	7.931	7.941	(0.912)	283991	44.0086	1550	

ION RATIO REPORT

SV REPORT

Data file: s4b2114.d

Report Date: 02/22/2010 07:42

Lab. ID: 246434009

SampleType: SAMPLE

Injection Date: 21-FEB-2010 14:40

Operator: JMB3

Instrument: MSD4.i

Sample Info: |246434009|951989|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01|

Comment:

Method used: /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1620

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4 Aniline		CAS#: 62-53-3				
66	15134	3.61	3.69	80-120	100	(T)
93	2010	3.67	3.69	455-515	13	(Q)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	19752	4.26	4.14	80-120	100	(T)
42	8517	4.26	4.14	24- 84	43	(T)

27 Benzoic acid		CAS#: 65-85-0				
105	366	4.57	4.55	80-120	100	()
122	100	4.56	4.55	40-100	27	(Q)
77	385	4.57	4.55	39- 99	105	(Q)

43 Dimethylphthalate		CAS#: 131-11-3				
163	49492	6.02	5.79	80-120	100	(T)
164	282921	6.02	5.79	0- 40	572	(QT)

44 2,6-Dinitrotoluene		CAS#: 606-20-2				
165	36281	6.02	5.85	80-120	100	(T)
63	7203	5.99	5.85	49-109	20	(QT)

45 Acenaphthylene		CAS#: 208-96-8				
152	46372	6.00	5.93	80-120	100	(T)
151	12126	6.00	5.93	0- 49	26	(T)
153	46544	6.00	5.93	0- 43	100	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
47	Acenaphthene		CAS#:	83-32-9		
154	39815	6.00	6.05	80-120	100	()
153	46544	6.00	6.05	69-129	117	()
152	46372	6.00	6.05	17- 77	116	(Q)

50	2,4-Dinitrotoluene		CAS#:	121-14-2		
165	36281	6.02	6.13	80-120	100	(T)
89	2857	5.99	6.13	52-112	8	(QT)
63	7203	5.99	6.13	19- 79	20	(T)

52	4-Nitrophenol		CAS#:	100-02-7		
139	7260	6.00	6.06	80-120	100	(T)
109	571	5.99	6.06	26- 86	8	(QT)
65	1654	5.99	6.06	73-133	23	(QT)

53	Fluorene		CAS#:	86-73-7		
166	3299	6.56	6.40	80-120	100	(T)
165	3401	6.56	6.40	59-119	103	(T)
167	1104	6.56	6.40	0- 44	33	(T)

61	4-Bromophenylphenylether		CAS#:	101-55-3		
248	4141	6.56	6.71	80-120	100	(T)
141	27133	6.56	6.71	41-101	655	(QT)
250	8715	6.56	6.71	66-126	210	(QT)

Q qualifier indicates ion failed ratio requirement

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Data file : /chem/MSD4.i/s022110a.b/s4b2114.d
 Lab Smp Id: 246434009 Client Smp ID: RE15-10-8357
 Inj Date : 21-FEB-2010 14:40
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |246434009|951989|1|SVM|1|LANL
 Misc Info : |MSD8270_S|WBN100205-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
 Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
 Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1620.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.12000	weight of sample
M	5.95010	% moisture

Cpnd Variable

Local Compound Variable

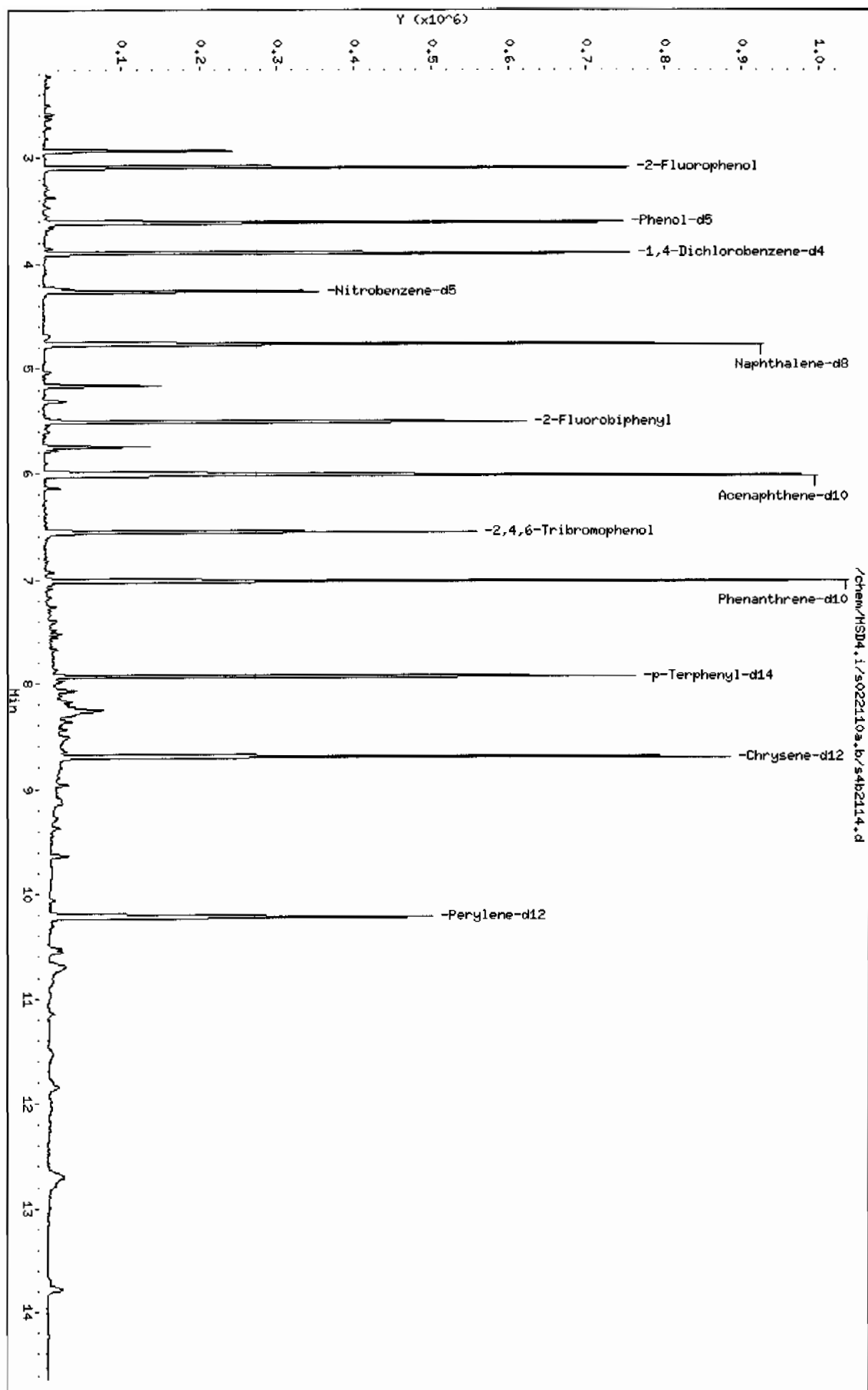
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.898	819958	40.000
* 29 Naphthalene-d8	4.765	1063873	40.000
* 46 Acenaphthene-d10	6.021	1479223	40.000
* 91 Chrysene-d12	8.696	1081372	40.000
* 98 Perylene-d12	10.215	851818	40.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	----	-----	-----	----	-----	-----	-----
Unknown Aldol Condensate					CAS #:		
2.935	280319	13.6747891	483	0		0	10
Unknown					CAS #:		
5.160	172405	6.48217131	229	0		0	29
1,4-Methanoazulene, decahydro-4,8,8-trim					CAS #: 475-20-7		
5.749	160235	4.33295000	153	99	NIST05.L	60023	46
Unknown					CAS #:		
8.257	186447	6.89668490	243	0		0	91
Unknown					CAS #:		
10.696	114155	5.36053891	189	0		0	98
.gamma.-Sitosterol					CAS #: 83-47-6		
12.697	115031	5.40164193	191	91	NIST05.L	174402	98

Data File: /chem/HSD4.i/s022110a.b/s4b2114.d
 Date : 21-FEB-2010 14:40
 Client ID: RE15-10-8357
 Sample Info: 12464340091951.989111SVH11.LANL
 Volume Injected (uL): 0.5
 Column phase: J&W DB-5MS

Instrument: HSD4.i
 Operator: JHB3
 Column diameter: 0.20



Date : 21-FEB-2010 14:40

Client ID: RE15-10-8357

Instrument: HSD4.i

Sample Info: 12464340091951989111SVH111LANL

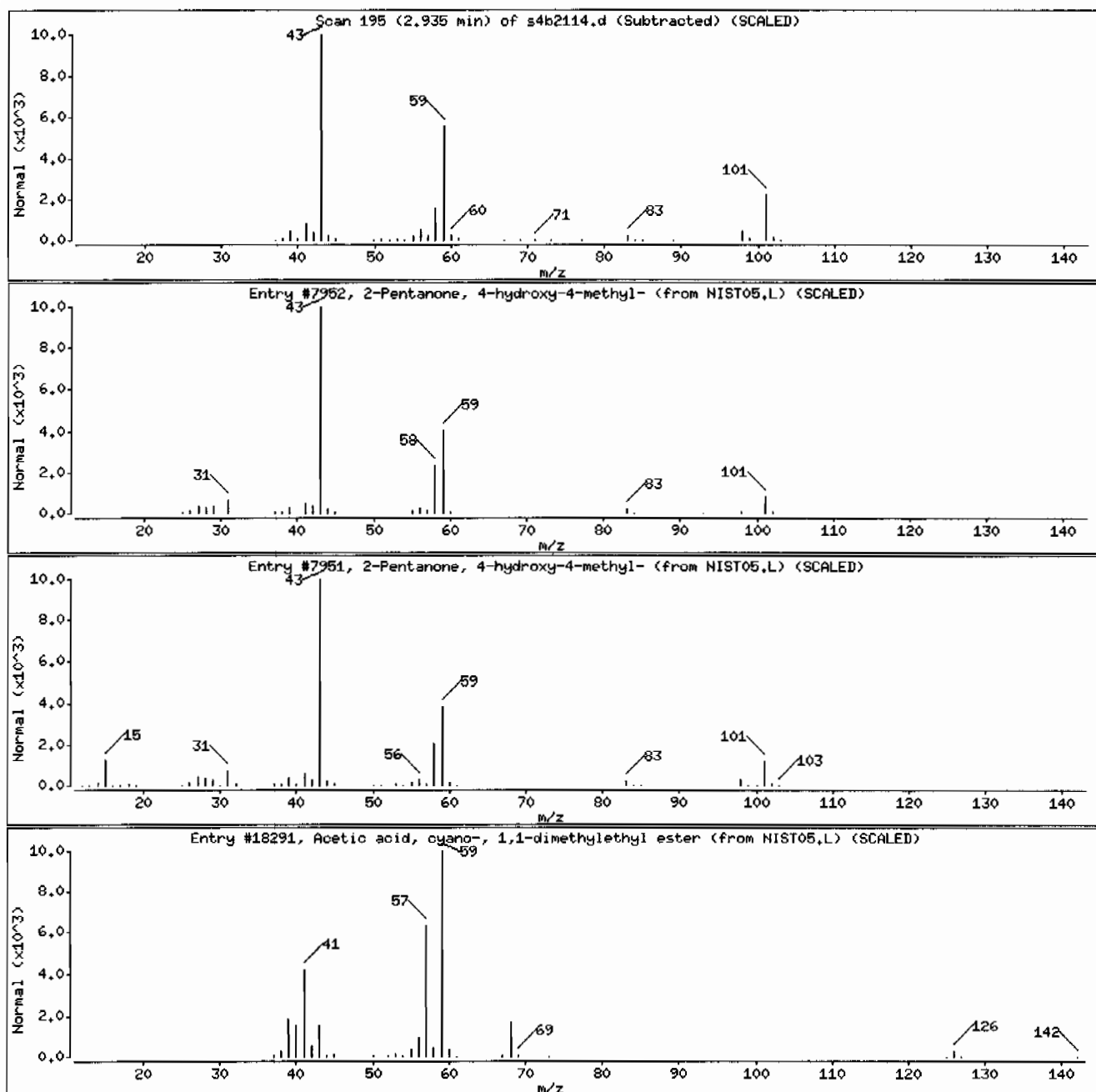
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	64	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
Acetic acid, cyano-, 1,1-dimethylethyl e	1116-98-9	NIST05.L	18291	17	C7H11NO2	141



Date : 21-FEB-2010 14:40

Client ID: RE15-10-8357

Instrument: MSD4.i

Sample Info: 12464340091951989111SVMI11LANL

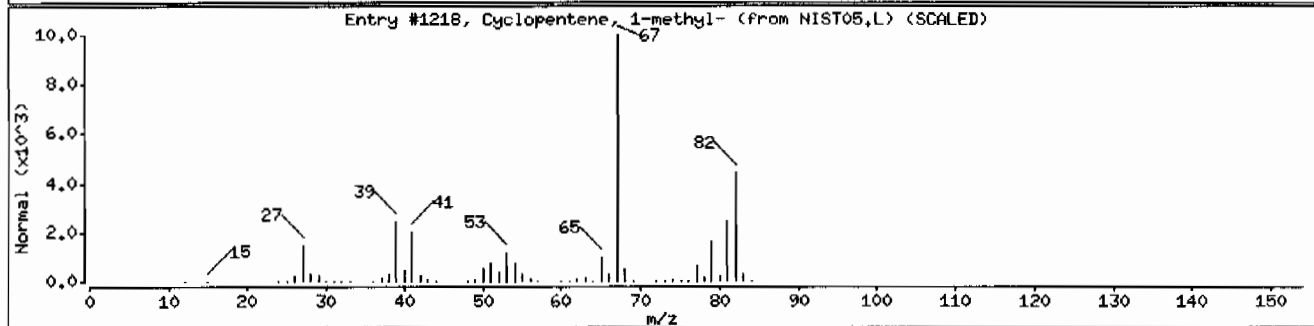
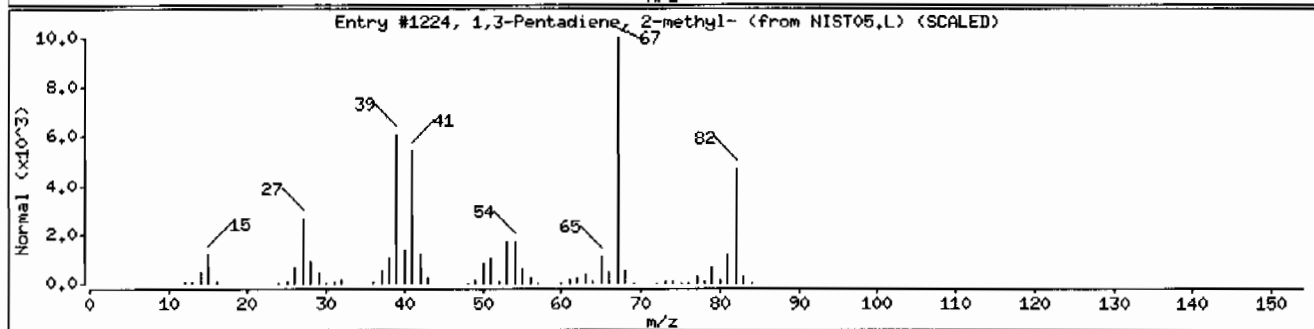
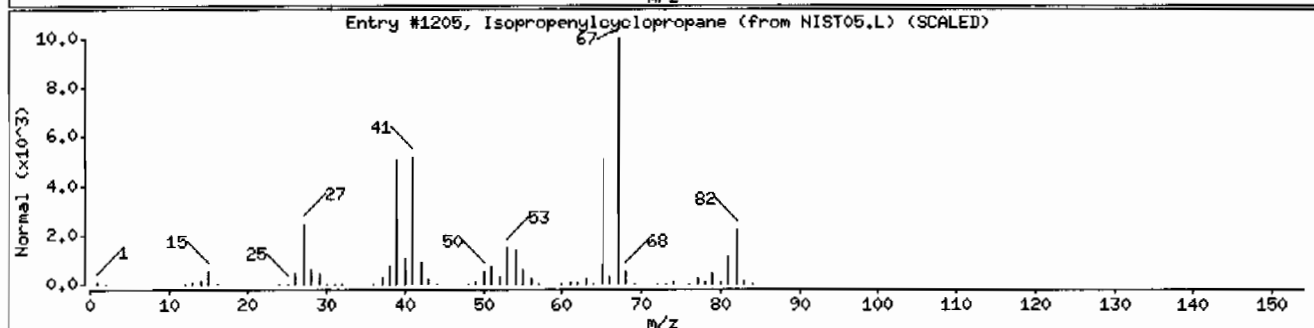
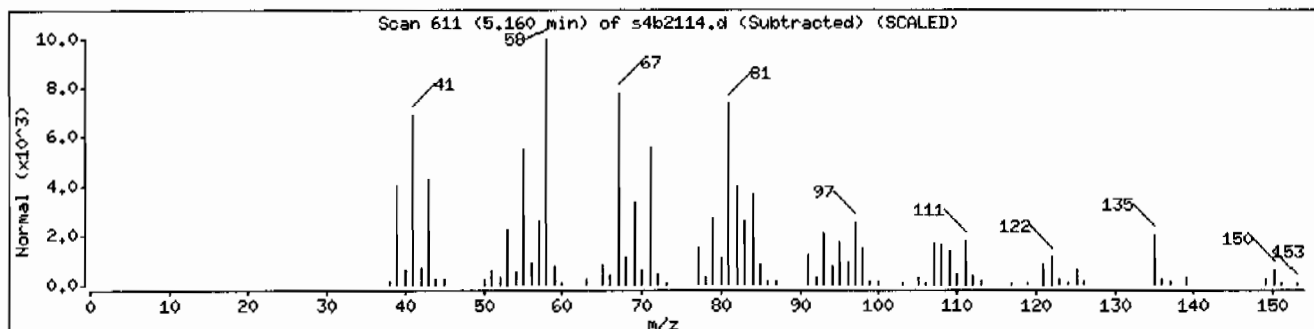
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Isopropenylcyclopropane	4663-22-3	NIST05.L	1205	18	C6H10	82
1,3-Pentadiene, 2-methyl-	1118-58-7	NIST05.L	1224	18	C6H10	82
Cyclopentene, 1-methyl-	693-89-0	NIST05.L	1218	18	C6H10	82



Date: 21-FEB-2010 14:40

Client ID: RE15-10-8357

Instrument: MSD4.i

Sample Info: 12464340091951989111SVH111LANL

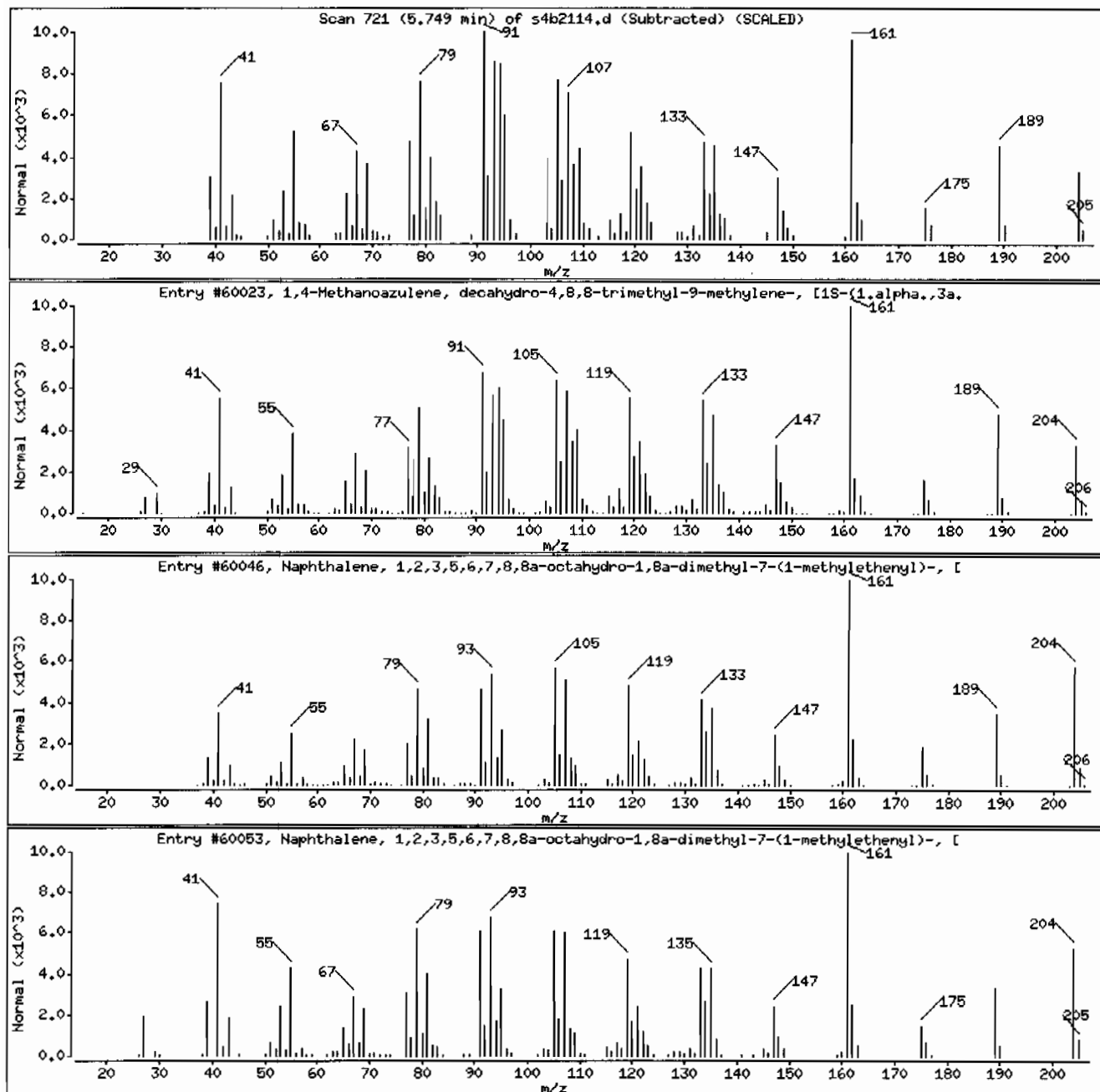
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60023	99	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60046	96	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	10219-75-7	NIST05.L	60053	96	C15H24	204



Date : 21-FEB-2010 14:40

Client ID: RE15-10-8357

Instrument: MSD4.i

Sample Info: I246434009195198911SVH11ILANL

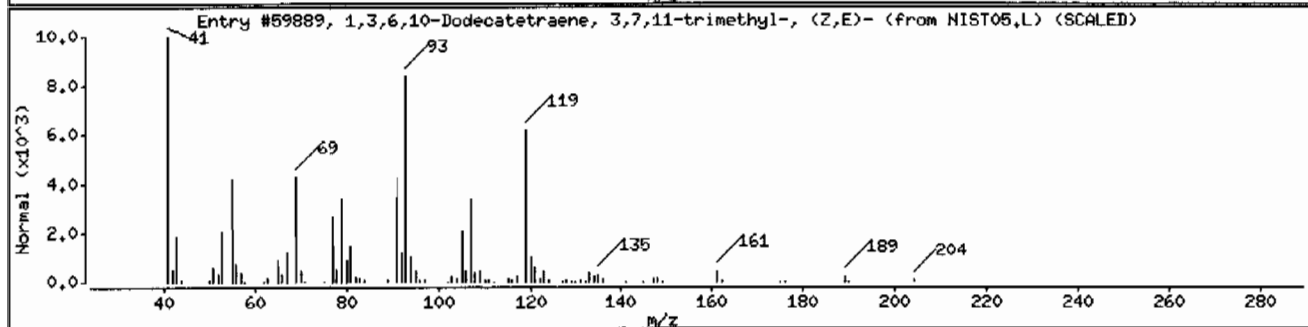
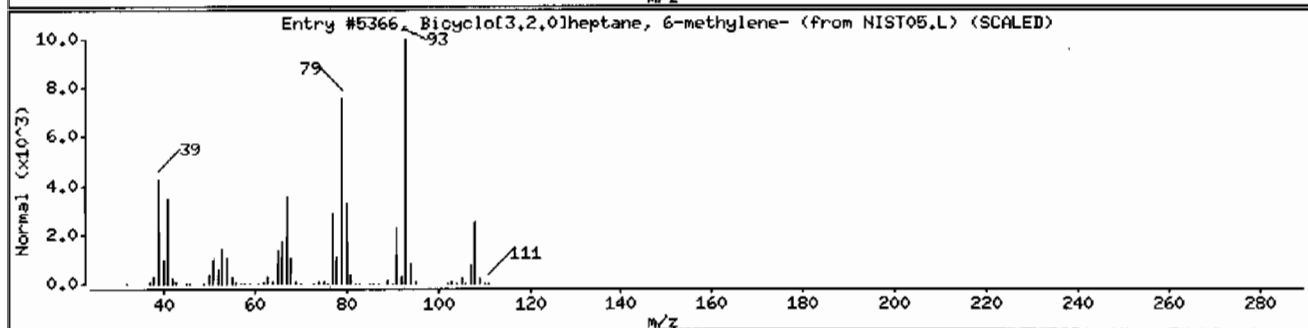
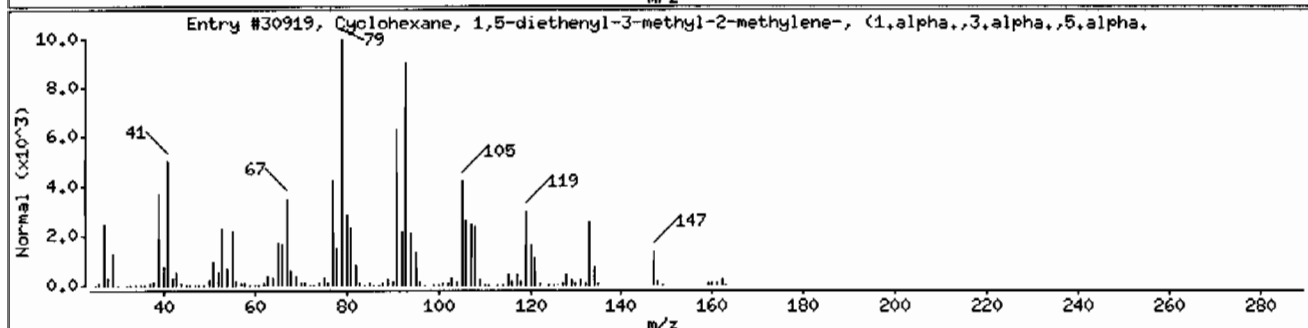
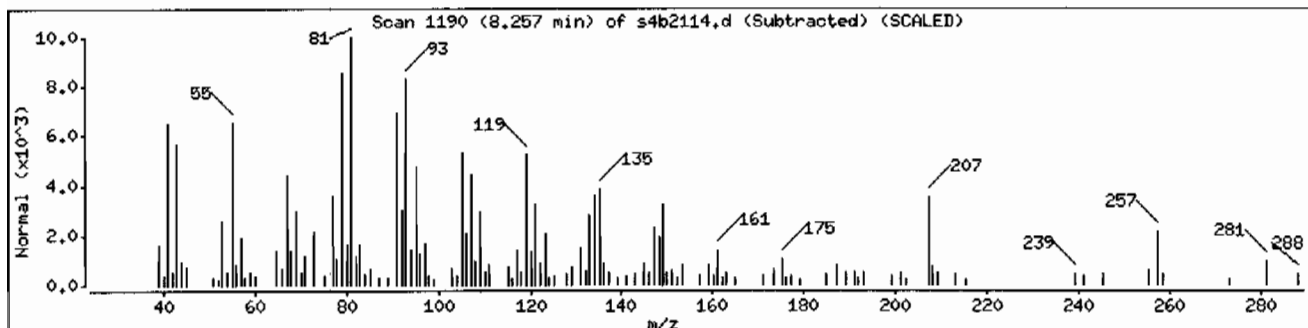
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, 1,5-diethenyl-3-methyl-2-me	74742-35-1	NIST05.L	30919	42	C12H18	162
Bicyclo[3.2.0]heptane, 6-methylene-	3642-22-6	NIST05.L	5366	30	C8H12	108
1,3,6,10-Dodecatetraene, 3,7,11-trimethy	26560-14-5	NIST05.L	59889	27	C15H24	204



Date : 21-FEB-2010 14:40

Client ID: RE15-10-8357

Instrument: MSD4.i

Sample Info: 12464340091951989111SVH111LANL

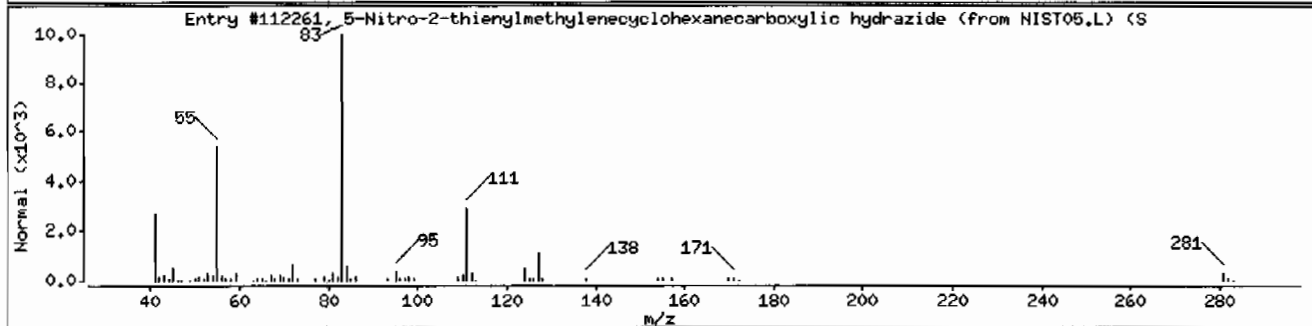
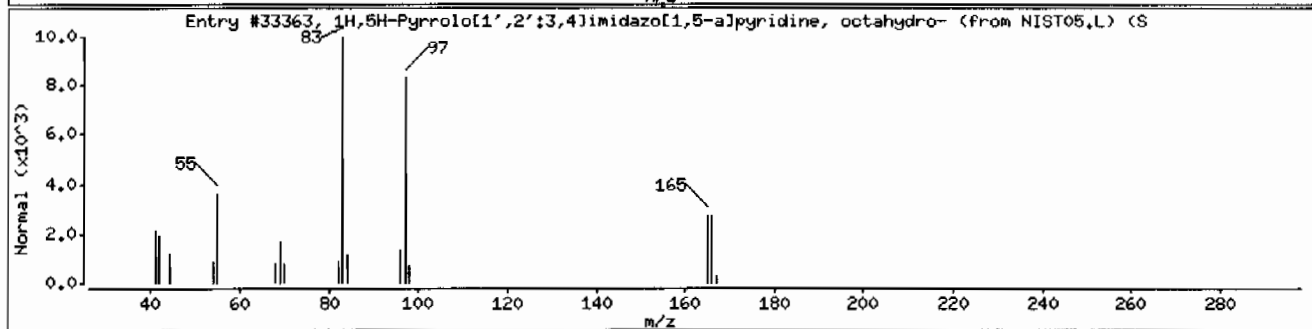
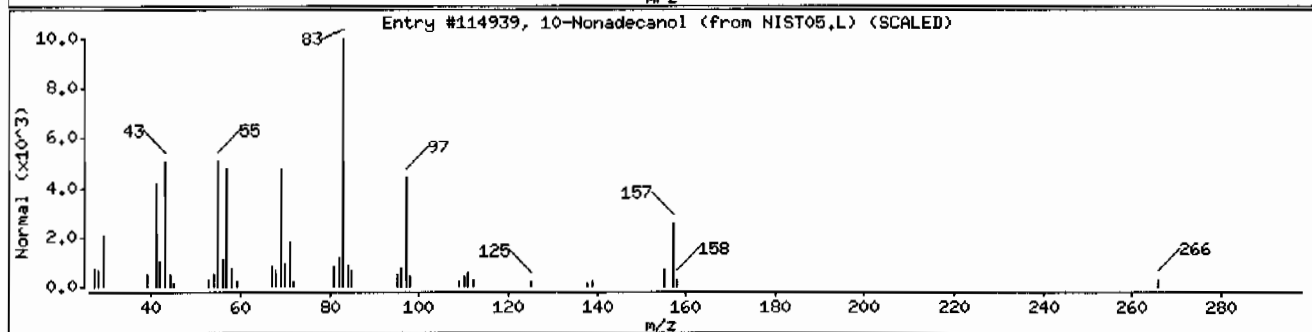
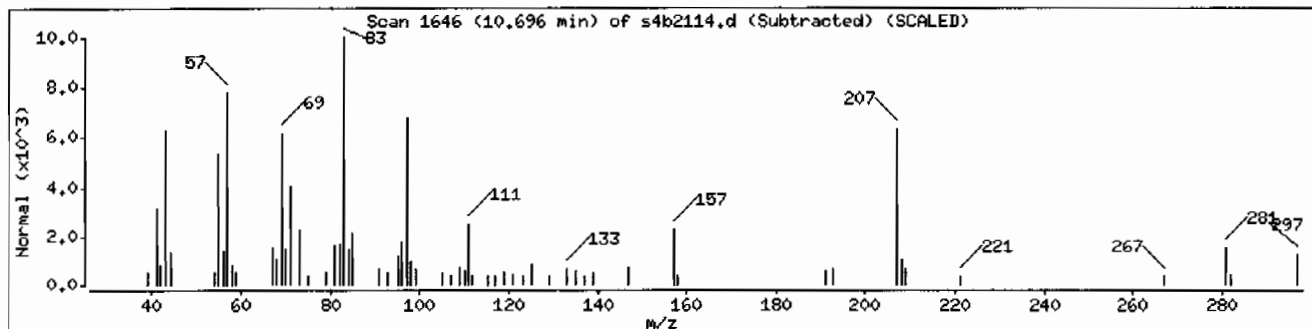
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
10-Nonadecanol	16840-84-9	NIST05.L	114939	35	C19H40O	284
1H,5H-Pyrrolo[1',2':3,4]imidazo[1,5-a]py	54966-11-9	NIST05.L	33363	35	C10H18N2	166
5-Nitro-2-thienylmethylenecyclohexanecar	42826-29-9	NIST05.L	112261	27	C12H15N3O3S	281



Date : 21-FEB-2010 14:40

Client ID: RE15-10-8357

Instrument: MSD4.i

Sample Info: 12464340091951989111SVH111LANL

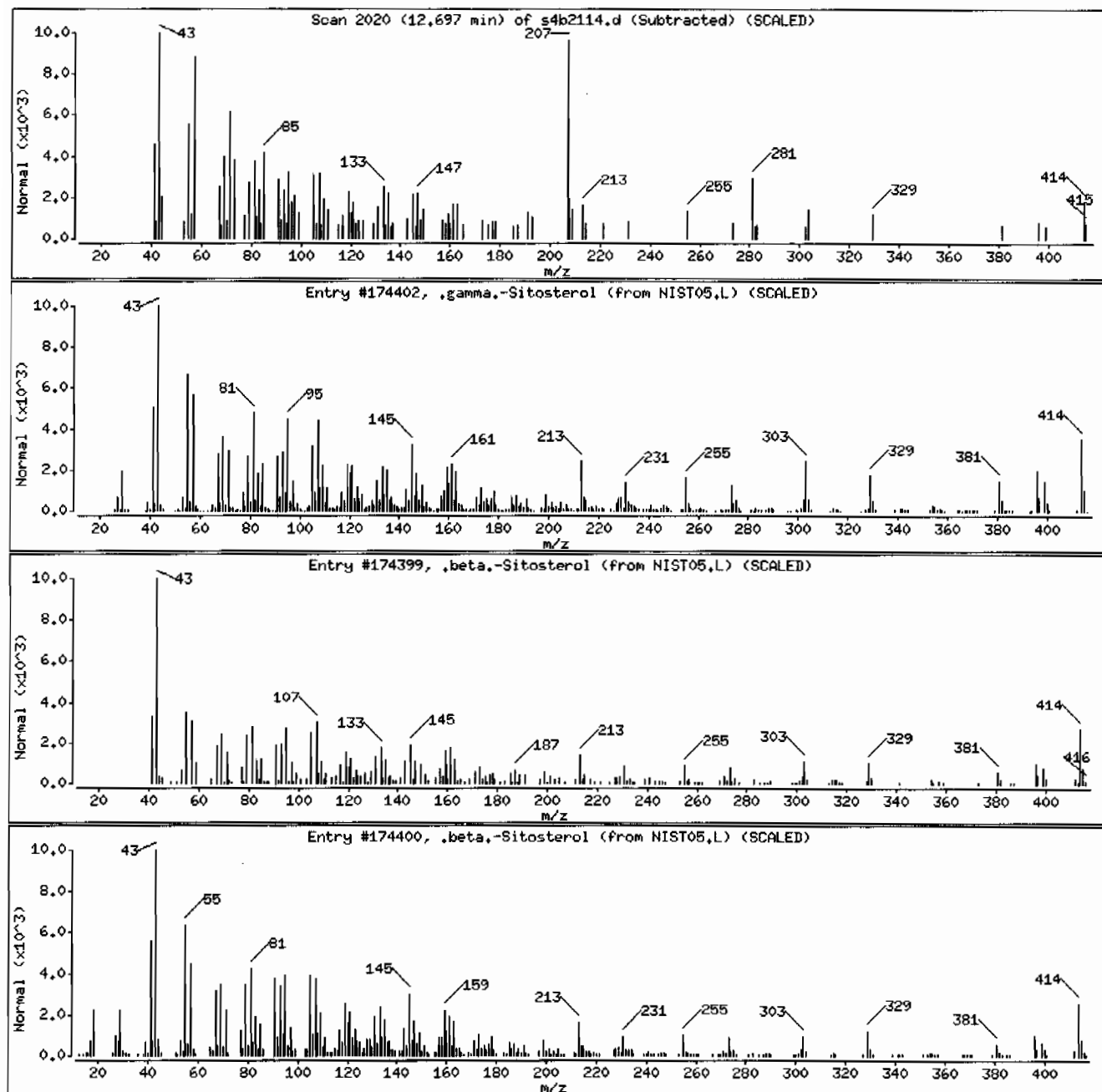
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
.gamma.-Sitosterol	83-47-6	NIST05.L	174402	91	C ₂₉ H ₅₀ O	414
.beta.-Sitosterol	83-46-5	NIST05.L	174399	90	C ₂₉ H ₅₀ O	414
.beta.-Sitosterol	83-46-5	NIST05.L	174400	59	C ₂₉ H ₅₀ O	414



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434015	Date Received: 02/06/2010 09:15	%Moisture: 6.3
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8374	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4J	Dilution: 1
Run Date: 02/21/2010 16:56	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.13 g	Final Volume: 1 mL
Data File: s4b2120.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	354	ug/kg	70.9	354
108-95-2	Phenol	U	354	ug/kg	70.9	354
95-57-8	2-Chlorophenol	U	354	ug/kg	70.9	354
106-46-7	1,4-Dichlorobenzene	U	354	ug/kg	70.9	354
621-64-7	N-Nitrosodipropylamine	U	354	ug/kg	70.9	354
59-50-7	4-Chloro-3-methylphenol	U	354	ug/kg	70.9	354
83-32-9	Accenaphthene	U	35.4	ug/kg	11.7	35.4
121-14-2	2,4-Dinitrotoluene	U	354	ug/kg	35.4	354
100-02-7	4-Nitrophenol	U	354	ug/kg	117	354
87-86-5	Pentachlorophenol	U	354	ug/kg	88.6	354
129-00-0	Pyrene	U	35.4	ug/kg	10.6	35.4
110-86-1	Pyridine	U	354	ug/kg	70.9	354
62-53-3	Aniline	U	354	ug/kg	106	354
111-44-4	bis(2-Chloroethyl) ether	U	354	ug/kg	70.9	354
541-73-1	1,3-Dichlorobenzene	U	354	ug/kg	70.9	354
100-51-6	Benzyl alcohol	U	354	ug/kg	106	354
95-50-1	1,2-Dichlorobenzene	U	354	ug/kg	70.9	354
108-60-1	bis(2-Chloroisopropyl)ether	U	354	ug/kg	70.9	354
95-48-7	o-Cresol	U	354	ug/kg	70.9	354
65794-96-9	m,p-Cresols	U	354	ug/kg	106	354
67-72-1	Hexachloroethane	U	354	ug/kg	70.9	354
98-95-3	Nitrobenzene	U	354	ug/kg	70.9	354
78-59-1	Isophorone	U	354	ug/kg	70.9	354
88-75-5	2-Nitrophenol	U	354	ug/kg	70.9	354
105-67-9	2,4-Dimethylphenol	U	354	ug/kg	124	354
111-91-1	bis(2-Chloroethoxy)methane	U	354	ug/kg	70.9	354
120-83-2	2,4-Dichlorophenol	U	354	ug/kg	70.9	354
65-85-0	Benzoic acid	U	709	ug/kg	177	709
91-20-3	Naphthalene	U	35.4	ug/kg	10.6	35.4
106-47-8	4-Chloroaniline	U	354	ug/kg	70.9	354
87-68-3	Hexachlorobutadiene	U	354	ug/kg	70.9	354
91-57-6	2-Methylnaphthalene	U	35.4	ug/kg	7.09	35.4
77-47-4	Hexachlorocyclopentadiene	U	354	ug/kg	70.9	354
88-06-2	2,4,6-Trichlorophenol	U	354	ug/kg	70.9	354
95-95-4	2,4,5-Trichlorophenol	U	354	ug/kg	70.9	354
91-58-7	2-Chloronaphthalene	U	35.4	ug/kg	11.7	35.4
88-74-4	2-Nitroaniline	U	354	ug/kg	70.9	354
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	354	ug/kg	70.9	354

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434015	Date Received: 02/06/2010 09:15	%Moisture: 6.3
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8374	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.1	Dilution: 1
Run Date: 02/21/2010 16:56	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.13 g	Final Volume: 1 mL
Data File: s4b2120.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	354	ug/kg	70.9	354
606-20-2	2,6-Dinitrotoluene	U	354	ug/kg	35.4	354
208-96-8	Acenaphthylene	U	35.4	ug/kg	10.6	35.4
51-28-5	2,4-Dinitrophenol	U	709	ug/kg	135	709
132-64-9	Dibenzofuran	U	354	ug/kg	70.9	354
84-66-2	Diethylphthalate	U	354	ug/kg	70.9	354
86-73-7	Fluorene	U	35.4	ug/kg	10.6	35.4
7005-72-3	4-Chlorophenylphenylether	U	354	ug/kg	70.9	354
534-52-1	2-Methyl-4,6-dinitrophenol	U	354	ug/kg	70.9	354
100-01-6	4-Nitroaniline	U	354	ug/kg	106	354
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	354	ug/kg	70.9	354
122-66-7	Azobenzene	U	354	ug/kg	70.9	354
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	354	ug/kg	70.9	354
118-74-1	Hexachlorobenzene	U	354	ug/kg	70.9	354
85-01-8	Phenanthrene	U	35.4	ug/kg	10.6	35.4
120-12-7	Anthracene	U	35.4	ug/kg	7.09	35.4
84-74-2	Di-n-butylphthalate	U	354	ug/kg	70.9	354
206-44-0	Fluoranthene	U	35.4	ug/kg	10.6	35.4
85-68-7	Butylbenzylphthalate	U	354	ug/kg	70.9	354
56-55-3	Benzo(a)anthracene	U	35.4	ug/kg	10.6	35.4
91-94-1	3,3'-Dichlorobenzidine	U	354	ug/kg	106	354
218-01-9	Chrysene	U	35.4	ug/kg	10.6	35.4
117-81-7	bis(2-Ethylhexyl)phthalate	U	354	ug/kg	70.9	354
117-84-0	Di-n-octylphthalate	U	354	ug/kg	70.9	354
205-99-2	Benzo(b)fluoranthene	U	35.4	ug/kg	10.6	35.4
207-08-9	Benzo(k)fluoranthene	U	35.4	ug/kg	10.6	35.4
50-32-8	Benzo(a)pyrene	U	35.4	ug/kg	10.6	35.4
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.4	ug/kg	10.6	35.4
53-70-3	Dibenzo(a,h)anthracene	U	35.4	ug/kg	10.6	35.4
191-24-2	Benzo(ghi)perylene	U	35.4	ug/kg	10.6	35.4
120-82-1	1,2,4-Trichlorobenzene	U	354	ug/kg	70.9	354

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.05	726	ug/kg		J
	Unknown Aldol Condensate	2.94	398	ug/kg		J

Data File: /chem/MSD4.i/s022110a.b/s4b2120.d
Report Date: 22-Feb-2010 08:18

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Data file : /chem/MSD4.i/s022110a.b/s4b2120.d
Lab Smp Id: 246434015 Client Smp ID: RE15-10-8374
Inj Date : 21-FEB-2010 16:56
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |246434015|951989|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1620.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf *Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.13000	weight of sample
M	6.31250	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.898	3.903	(1.000)	138344	40.0000
* 29 Naphthalene-d8	136	4.764	4.770	(1.000)	521768	40.0000
* 46 Acenaphthene-d10	164	6.021	6.027	(1.000)	293819	40.0000
* 67 Phenanthrene-d10	188	7.011	7.016	(1.000)	487509	40.0000
* 91 Chrysene-d12	240	8.701	8.717	(1.000)	441725	40.0000
* 98 Perylene-d12	264	10.220	10.236	(1.000)	352995	40.0000
\$ 3 2-Fluorophenol	112	3.096	3.090	(0.794)	282997	71.7887 2540
\$ 5 Phenol-d5	99	3.614	3.614	(0.927)	363528	73.4045 2600
\$ 20 Nitrobenzene-d5	82	4.262	4.267	(0.894)	162994	40.6796 1440
\$ 39 2-Fluorobiphenyl	172	5.513	5.513	(0.916)	267587	35.2714 1250
\$ 60 2,4,6-Tribromophenol	329	6.556	6.561	(1.089)	88094	95.8692 3400
\$ 81 p-Terphenyl-d14	244	7.936	7.941	(0.912)	309349	44.7999 1590

ION RATIO REPORT

SV REPORT

Data file: s4b2120.d

Report Date: 02/22/2010 07:43

Lab. ID: 246434015

SampleType: SAMPLE

Injection Date: 21-FEB-2010 16:56

Operator: JMB3

Instrument: MSD4.i

Sample Info: |246434015|951989|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01|

Comment:

Method used: /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1620

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4 Aniline		CAS#: 62-53-3				
66	15836	3.61	3.69	80-120	100	(T)
93	530	3.67	3.69	455-515	3	(Q)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	21753	4.26	4.14	80-120	100	(T)
42	9521	4.26	4.14	24- 84	44	(T)

43 Dimethylphthalate		CAS#: 131-11-3				
163	52000	6.02	5.79	80-120	100	(T)
164	293819	6.02	5.79	0- 40	565	(QT)

44 2,6-Dinitrotoluene		CAS#: 606-20-2				
165	37655	6.02	5.85	80-120	100	(T)
63	366	6.02	5.85	49-109	1	(QT)

50 2,4-Dinitrotoluene		CAS#: 121-14-2				
165	37655	6.02	6.13	80-120	100	(T)
89	520	6.02	6.13	52-112	1	(QT)
63	366	6.02	6.13	19- 79	1	(QT)

53 Fluorene		CAS#: 86-73-7				
166	3599	6.56	6.40	80-120	100	(T)
165	3703	6.56	6.40	59-119	103	(T)
167	1174	6.56	6.40	0- 44	33	(T)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
61	4-Bromophenylphenylether			CAS#: 101-55-3		
248	4486	6.56	6.71	80-120	100	(T)
141	28971	6.56	6.71	41-101	646	(QT)
250	9583	6.56	6.71	66-126	214	(QT)

 Q qualifier indicates ion failed ratio requirement

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Data file : /chem/MSD4.i/s022110a.b/s4b2120.d
 Lab Smp Id: 246434015 Client Smp ID: RE15-10-8374
 Inj Date : 21-FEB-2010 16:56
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |246434015|951989|1|SVM|1|LANL
 Misc Info : |MSD8270 S|WBN100205-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
 Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
 Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
 Als bottle: 16
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1620.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf *Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.13000	weight of sample
M	6.31250	% moisture

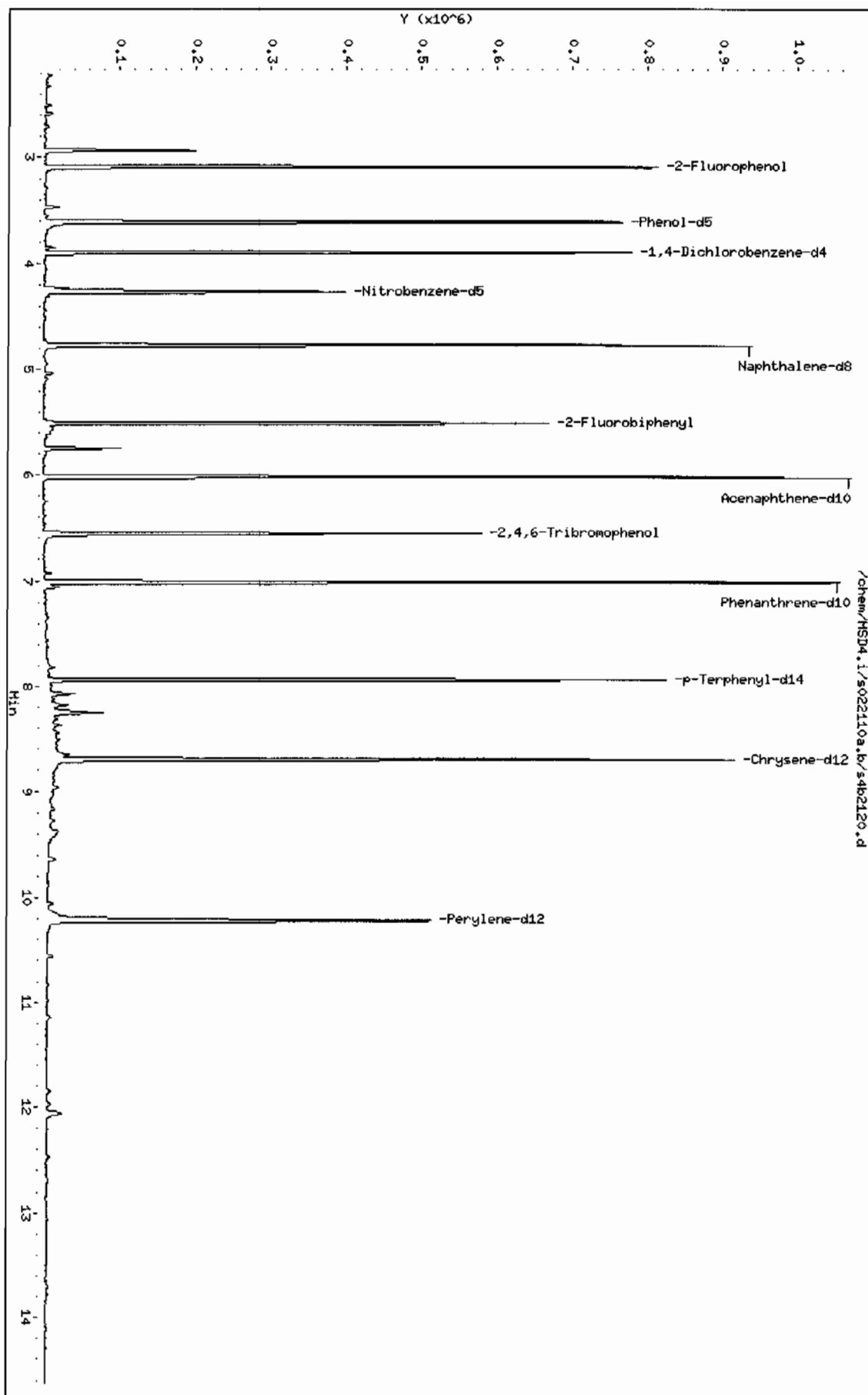
Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.898	844625	40.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown					CAS #:		
2.047	432438	20.4795103	726	0		0	10
Unknown Aldol Condensate					CAS #:		
2.935	237057	11.2266080	398	0		0	10

Data File: /chem/MSD4.i/s022110a.b/s4b2120.d
Date: 21-FEB-2010 16:56
Client ID: RE15-10-8374
Sample Info: 1246434015/95198911SVH11/LANL
Volume Injected (ul): 0.5
Column phase: J&W DB-5MS

Instrument: MSD4.i
Operator: JMB3
Column diameter: 0.20



Date : 21-FEB-2010 16:56

Client ID: RE15-10-8374

Instrument: MSD4.i

Sample Info: 12464340151951989111SVMI1ILANL

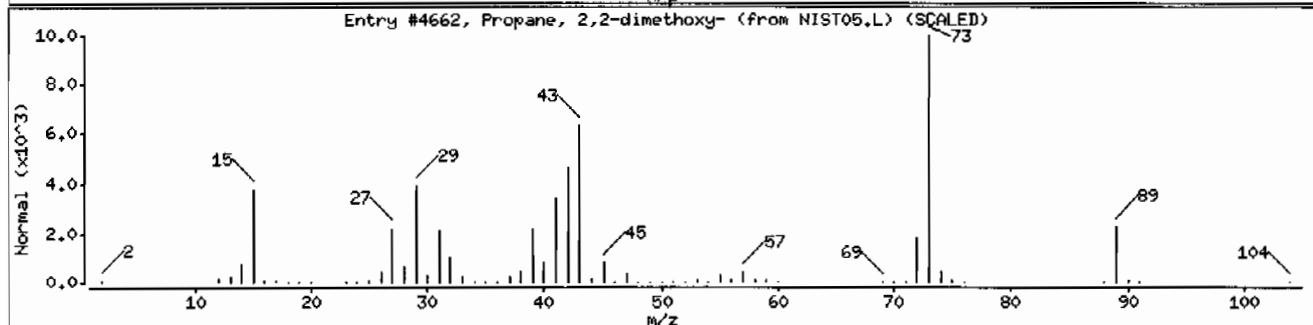
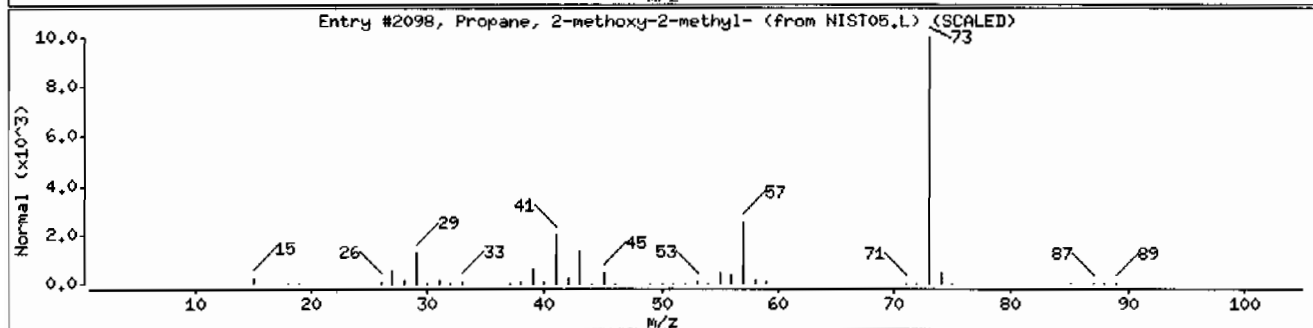
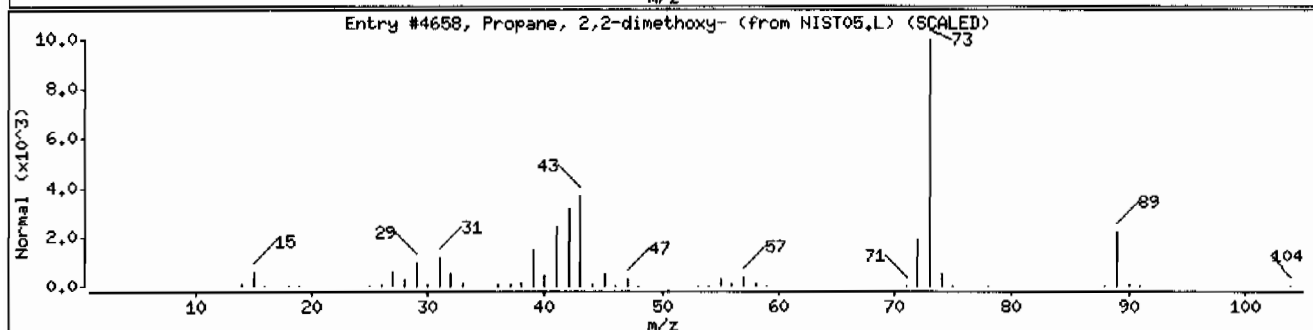
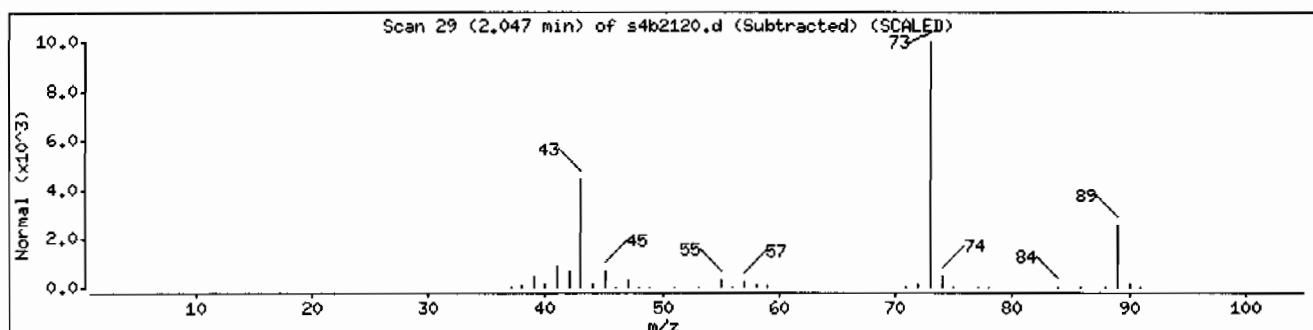
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4658	50	C5H12O2	104
Propane, 2-methoxy-2-methyl-	1634-04-4	NIST05.L	2098	9	C5H12O	88
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4662	9	C5H12O2	104



Date : 21-FEB-2010 16:56

Client ID: RE15-10-8374

Instrument: MSD4.i

Sample Info: I2464340151951989111SVH111LANL

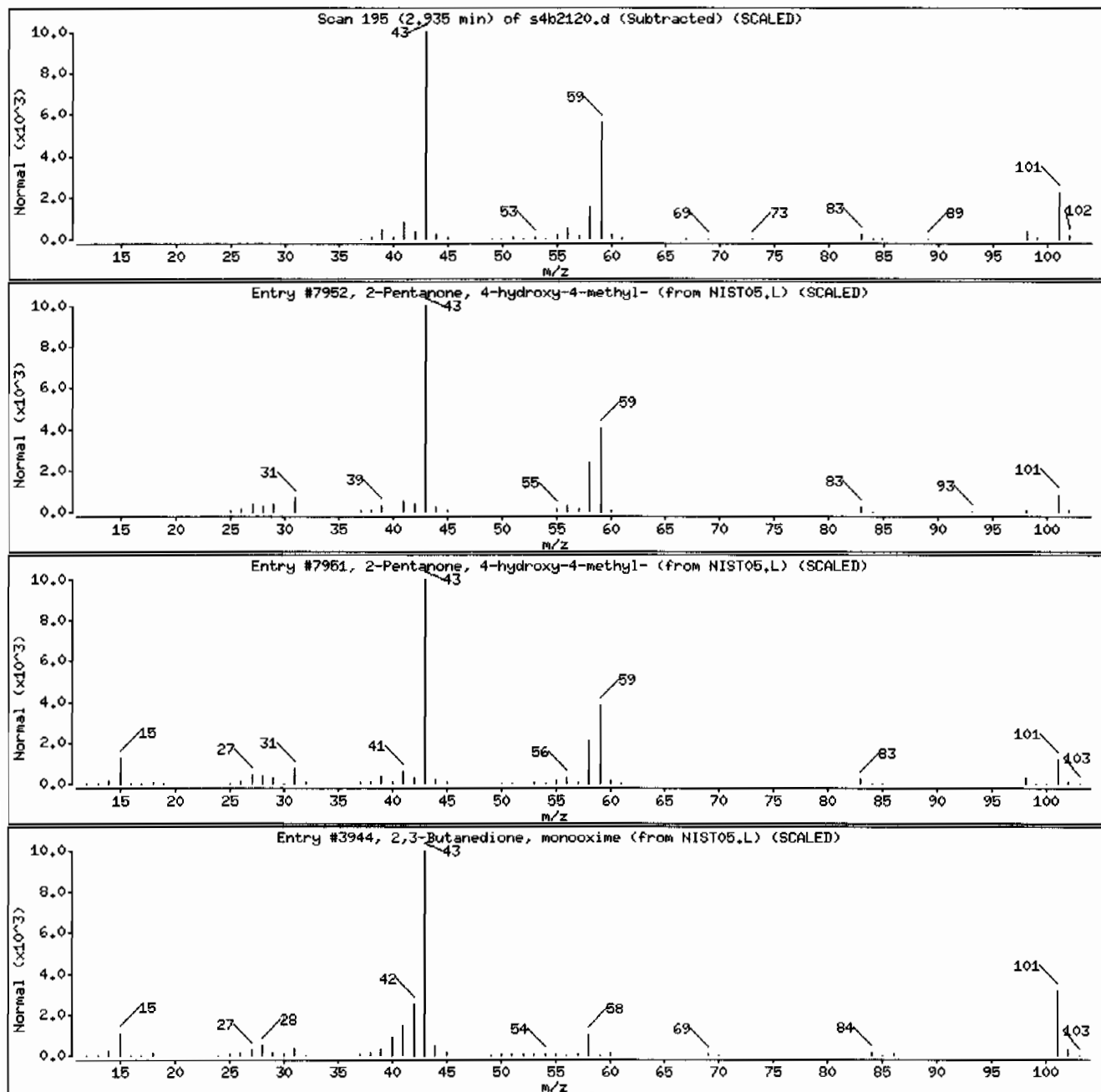
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	56	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
2,3-Butanedione, monooxime	57-71-6	NIST05.L	3944	25	C4H7NO2	101



Semi-Volatile
Certificate of Analysis
Sample Summary

Page 1 of 2

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434014	Date Received: 02/06/2010 09:15	%Moisture: 19.7
Client ID: RE15-10-8375	Client: LANL010	Project: LANL01004
Batch ID: 951989	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/21/2010 16:33	Inst: MSD4.I	Dilution: 1
Prep Date: 02/11/2010 22:25	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4b2119.d	Aliquot: 30.07 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDI/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	414	ug/kg	82.9	414
108-95-2	Phenol	U	414	ug/kg	82.9	414
95-57-8	2-Chlorophenol	U	414	ug/kg	82.9	414
106-46-7	1,4-Dichlorobenzene	U	414	ug/kg	82.9	414
621-64-7	N-Nitrosodipropylamine	U	414	ug/kg	82.9	414
59-50-7	4-Chloro-3-methylphenol	U	414	ug/kg	82.9	414
83-32-9	Acenaphthene	U	41.4	ug/kg	13.7	41.4
121-14-2	2,4-Dinitrotoluene	U	414	ug/kg	41.4	414
100-02-7	4-Nitrophenol	U	414	ug/kg	137	414
87-86-5	Pentachlorophenol	U	414	ug/kg	104	414
129-00-0	Pyrene	U	41.4	ug/kg	12.4	41.4
110-86-1	Pyridine	U	414	ug/kg	82.9	414
62-53-3	Aniline	U	414	ug/kg	124	414
111-44-4	bis(2-Chloroethyl) ether	U	414	ug/kg	82.9	414
541-73-1	1,3-Dichlorobenzene	U	414	ug/kg	82.9	414
100-51-6	Benzyl alcohol	U	414	ug/kg	124	414
95-50-1	1,2-Dichlorobenzene	U	414	ug/kg	82.9	414
108-60-1	bis(2-Chloroisopropyl)ether	U	414	ug/kg	82.9	414
95-48-7	o-Cresol	U	414	ug/kg	82.9	414
65794-96-9	m,p-Cresols	U	414	ug/kg	124	414
67-72-1	Hexachloroethane	U	414	ug/kg	82.9	414
98-95-3	Nitrobenzene	U	414	ug/kg	82.9	414
78-59-1	Isophorone	U	414	ug/kg	82.9	414
88-75-5	2-Nitrophenol	U	414	ug/kg	82.9	414
105-67-9	2,4-Dimethylphenol	U	414	ug/kg	145	414
111-91-1	bis(2-Chloroethoxy)methane	U	414	ug/kg	82.9	414
120-83-2	2,4-Dichlorophenol	U	414	ug/kg	82.9	414
65-85-0	Benzoic acid	U	829	ug/kg	207	829
91-20-3	Naphthalene	U	41.4	ug/kg	12.4	41.4
106-47-8	4-Chloroaniline	U	414	ug/kg	82.9	414
87-68-3	Hexachlorobutadiene	U	414	ug/kg	82.9	414
91-57-6	2-Methylnaphthalene	U	41.4	ug/kg	8.29	41.4
77-47-4	Hexachlorocyclopentadiene	U	414	ug/kg	82.9	414
88-06-2	2,4,6-Trichlorophenol	U	414	ug/kg	82.9	414
95-95-4	2,4,5-Trichlorophenol	U	414	ug/kg	82.9	414
91-58-7	2-Chloronaphthalene	U	41.4	ug/kg	13.7	41.4
88-74-4	2-Nitroaniline	U	414	ug/kg	82.9	414
	o-Nitroaniline					
99-09-2	3-Nitroaniline	U	414	ug/kg	82.9	414

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620	Date Collected: 02/02/2010 12:00	Matrix: R
Lab Sample ID: 246434014	Date Received: 02/06/2010 09:15	%Moisture: 19.7
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8375	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/21/2010 16:33	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30.07 g	Final Volume: 1 mL
Data File: s4b2119.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	414	ug/kg	82.9	414
606-20-2	2,6-Dinitrotoluene	U	414	ug/kg	41.4	414
208-96-8	Acenaphthylene	U	41.4	ug/kg	12.4	41.4
51-28-5	2,4-Dinitrophenol	U	829	ug/kg	157	829
132-64-9	Dibenzofuran	U	414	ug/kg	82.9	414
84-66-2	Diethylphthalate	U	414	ug/kg	82.9	414
86-73-7	Fluorene	U	41.4	ug/kg	12.4	41.4
7005-72-3	4-Chlorophenylphenylether	U	414	ug/kg	82.9	414
534-52-1	2-Methyl-4,6-dinitrophenol	U	414	ug/kg	82.9	414
100-01-6	4-Nitroaniline	U	414	ug/kg	124	414
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	414	ug/kg	82.9	414
122-66-7	Azobenzene	U	414	ug/kg	82.9	414
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	414	ug/kg	82.9	414
118-74-1	Hexachlorobenzene	U	414	ug/kg	82.9	414
85-01-8	Phenanthrene	U	41.4	ug/kg	12.4	41.4
120-12-7	Anthracene	U	41.4	ug/kg	8.29	41.4
84-74-2	Di-n-butylphthalate	U	414	ug/kg	82.9	414
206-44-0	Fluoranthene	U	41.4	ug/kg	12.4	41.4
85-68-7	Butylbenzylphthalate	U	414	ug/kg	82.9	414
56-55-3	Benzo(a)anthracene	U	41.4	ug/kg	12.4	41.4
91-94-1	3,3'-Dichlorobenzidine	U	414	ug/kg	124	414
218-01-9	Chrysene	U	41.4	ug/kg	12.4	41.4
117-81-7	bis(2-Ethylhexyl)phthalate	U	414	ug/kg	82.9	414
117-84-0	Di-n-octylphthalate	U	414	ug/kg	82.9	414
205-99-2	Benzo(b)fluoranthene	U	41.4	ug/kg	12.4	41.4
207-08-9	Benzo(k)fluoranthene	U	41.4	ug/kg	12.4	41.4
50-32-8	Benzo(a)pyrene	U	41.4	ug/kg	12.4	41.4
193-39-5	Indeno(1,2,3-cd)pyrene	U	41.4	ug/kg	12.4	41.4
53-70-3	Dibenzo(a,h)anthracene	U	41.4	ug/kg	12.4	41.4
191-24-2	Benzo(ghi)perylene	U	41.4	ug/kg	12.4	41.4
120-82-1	1,2,4-Trichlorobenzene	U	414	ug/kg	82.9	414

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.94	488	ug/kg		J

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Data file : /chem/MSD4.i/s022110a.b/s4b2119.d
Lab Smp Id: 246434014 Client Smp ID: RE15-10-8375
Inj Date : 21-FEB-2010 16:33
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |246434014|951989|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1620.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.07000	weight of sample
M	19.73610	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	152	3.898	3.903	(1.000)	131219	40.0000	
* 29 Naphthalene-d8	136	4.765	4.770	(1.000)	502599	40.0000	
* 46 Acenaphthene-d10	164	6.022	6.027	(1.000)	283279	40.0000	
* 67 Phenanthrene-d10	188	7.011	7.016	(1.000)	472369	40.0000	
* 91 Chrysene-d12	240	8.696	8.717	(1.000)	419649	40.0000	
* 98 Perylene-d12	264	10.215	10.236	(1.000)	318598	40.0000	
\$ 3 2-Fluorophenol	112	3.090	3.090	(0.793)	255004	68.2001	2820
\$ 5 Phenol-d5	99	3.615	3.614	(0.927)	327600	69.7416	2890
\$ 20 Nitrobenzene-d5	82	4.262	4.267	(0.894)	146303	37.9065	1570
\$ 39 2-Fluorobiphenyl	172	5.513	5.513	(0.916)	243747	33.3244	1380
\$ 60 2,4,6-Tribromophenol	329	6.556	6.561	(1.089)	80425	90.7798	3760
\$ 81 p-Terphenyl-d14	244	7.936	7.941	(0.913)	282112	43.0047	1780

ION RATIO REPORT

SV REPORT

Data file: s4b2119.d

Report Date: 02/22/2010 07:43

Lab. ID: 246434014

SampleType: SAMPLE

Injection Date: 21-FEB-2010 16:33

Operator: JMB3

Instrument: MSD4.i

Sample Info: |246434014|951989|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01|

Comment:

Method used: /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1620

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4 Aniline		CAS#: 62-53-3				
66	14505	3.61	3.69	80-120	100	(T)
93	1067	3.67	3.69	455-515	7	(Q)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	19515	4.26	4.14	80-120	100	(T)
42	8996	4.26	4.14	24- 84	46	(T)

27 Benzoic acid		CAS#: 65-85-0				
105	525	4.51	4.55	80-120	100	()
122	305	4.51	4.55	40-100	58	()
77	511	4.51	4.55	39- 99	97	()

43 Dimethylphthalate		CAS#: 131-11-3				
163	50240	6.02	5.79	80-120	100	(T)
164	283279	6.02	5.79	0- 40	564	(QT)

44 2,6-Dinitrotoluene		CAS#: 606-20-2				
165	36217	6.02	5.85	80-120	100	(T)
63	414	6.02	5.85	49-109	1	(QT)

50 2,4-Dinitrotoluene		CAS#: 121-14-2				
165	36217	6.02	6.13	80-120	100	(T)
89	406	6.02	6.13	52-112	1	(QT)
63	414	6.02	6.13	19- 79	1	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
52	4-Nitrophenol		CAS#:	100-02-7		
139	145	5.99	6.06	80-120	100	(T)
109	545	6.00	6.06	26- 86	376	(QT)
65	1420	6.02	6.06	73-133	978	(Q)

53	Fluorene		CAS#:	86-73-7		
166	3254	6.56	6.40	80-120	100	(T)
165	3370	6.56	6.40	59-119	104	(T)
167	968	6.56	6.40	0- 44	30	(T)

61	4-Bromophenylphenylether		CAS#:	101-55-3		
248	4256	6.56	6.71	80-120	100	(T)
141	25955	6.56	6.71	41-101	610	(QT)
250	8422	6.56	6.71	66-126	198	(QT)

Q qualifier indicates ion failed ratio requirement

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Data file : /chem/MSD4.i/s022110a.b/s4b2119.d
Lab Smp Id: 246434014 Client Smp ID: RE15-10-8375
Inj Date : 21-FEB-2010 16:33
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |246434014|951989|1|SVM|1|LANL
Misc Info : |MSD8270 S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1620.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf *Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.07000	weight of sample
M	19.73610	% moisture

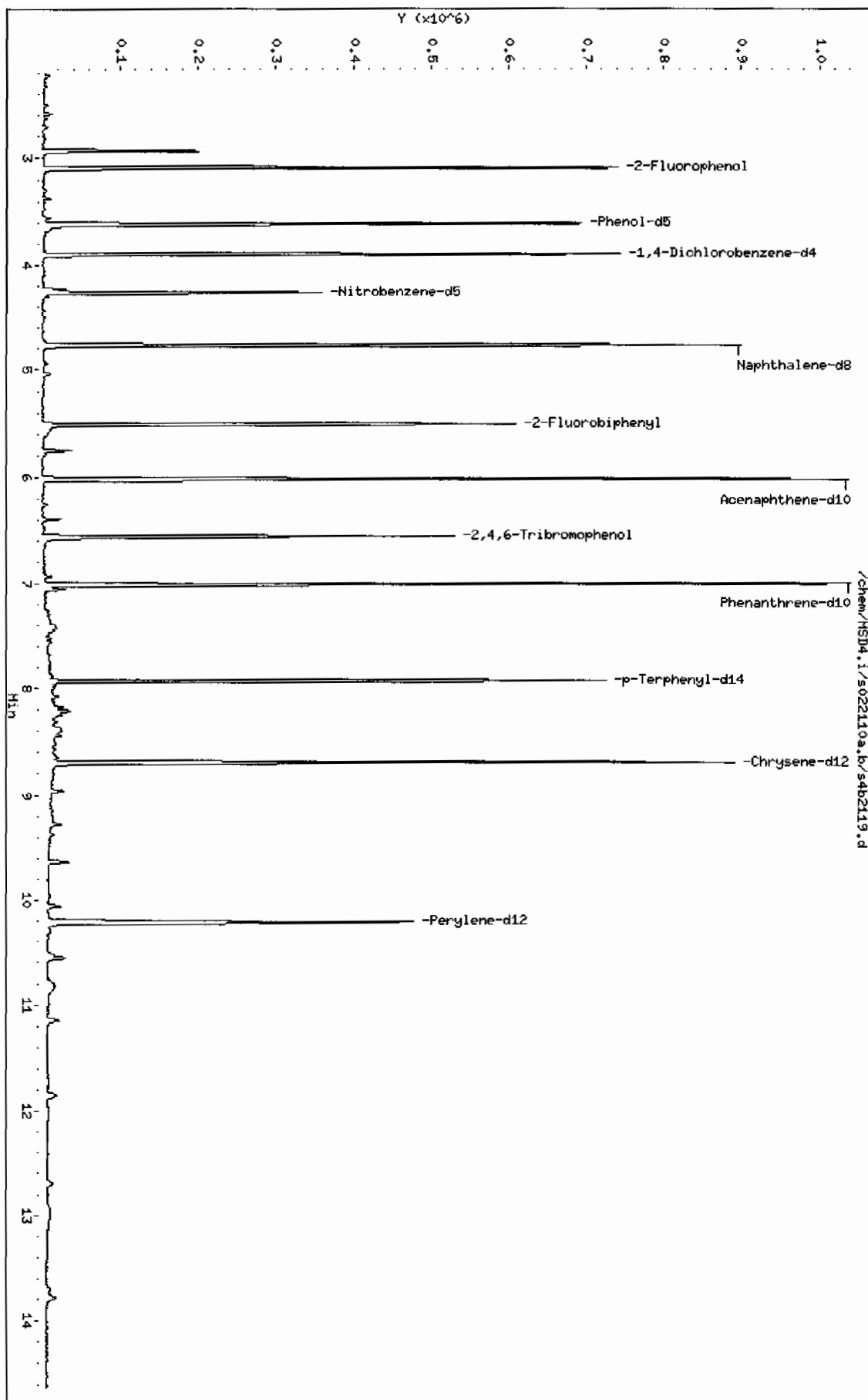
Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.898	807325	40.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
----	----	-----	-----	----	-----	-----	-----
Unknown Aldol Condensate					CAS #:		
2.935	237890	11.7865480	488	0		0	10

Data File: /chem/HSD4.i/s022110a.b/s4b2119.d
Date: 21-FEB-2010 16:33
Client ID: RE15-10-8375
Sample Info: 12464340141951989111SNH11LNL
Volume Injected (uL): 0.5
Column Phase: J&M DB-SHS

Instrument: MSD4.i
Operator: JHB3
Column diameter: 0.20



Date : 21-FEB-2010 16:33

Client ID: RE15-10-8375

Instrument: HSD4.i

Sample Info: 12464340141951989111SVM111LANL

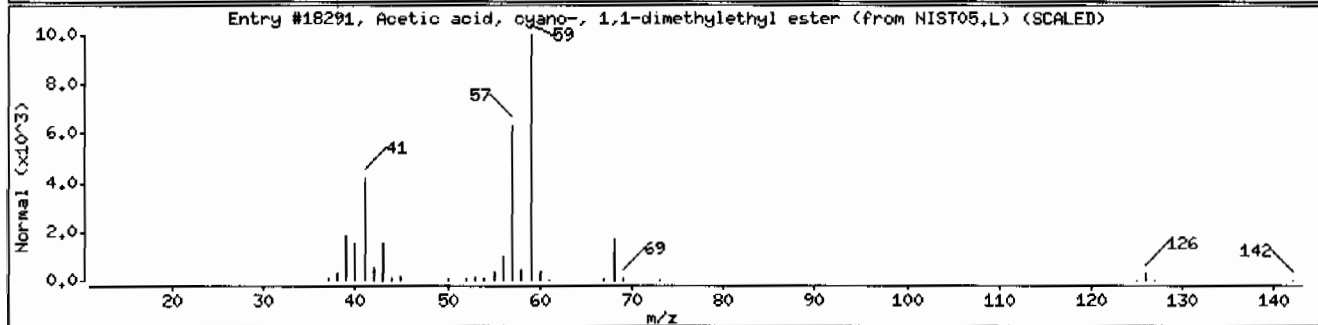
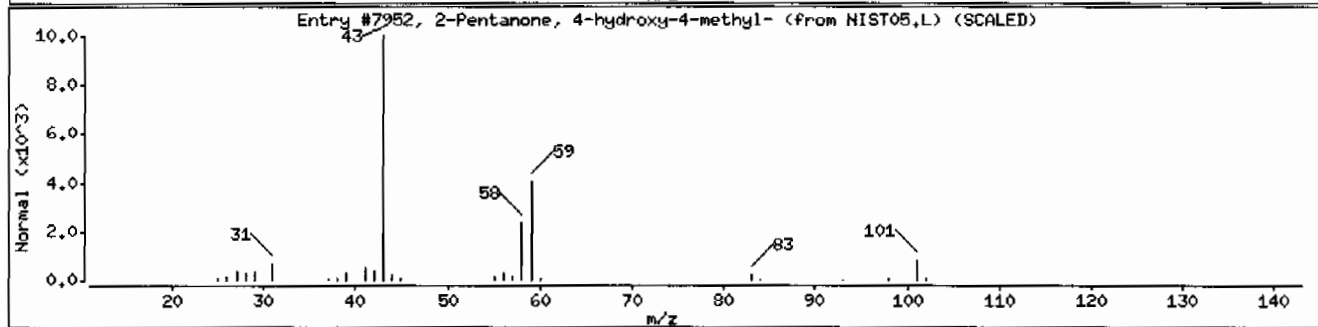
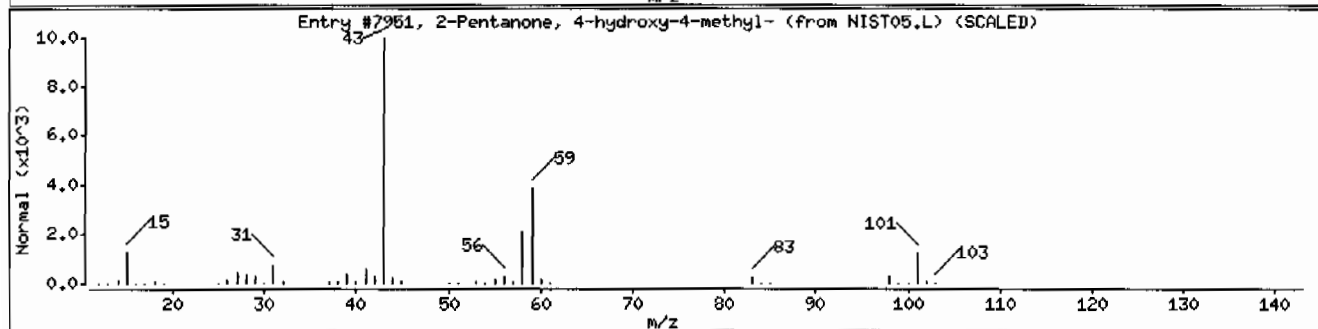
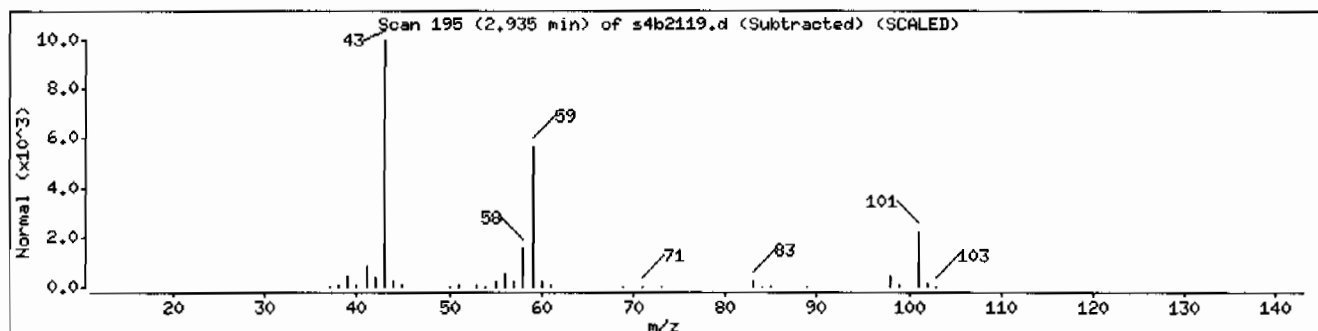
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	50	C6H12O2	116
Acetic acid, cyano-, 1,1-dimethylethyl e	1116-98-9	NIST05.L	18291	17	C7H11NO2	141



Standard Data

SW846 8270/EPA 625								
Calibration Standard Concentration Levels*								
MEGA MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
1,4-Dichlorobenzene-d4 (INTERNAL STANDARD)								
Naphthalene-d8 (INTERNAL STANDARD)								
Acenaphthene-d10 (INTERNAL STANDARD)								
Phenanthrene-d10 (INTERNAL STANDARD)								
Chrysene-d12 (INTERNAL STANDARD)								
Perylene-d12 (INTERNAL STANDARD)								
2-Fluorophenol (SURROGATE)		10	20	40	50	80	100	120
Phenol-d5 (SURROGATE)		10	20	40	50	80	100	120
2-Chlorophenol-d4 (CLP SURROGATE)		10	20	40	50	80	100	120
1,2-Dichlorobenzene-d4 (CLP SURROGATE)		10	20	40	50	80	100	120
Nitrobenzene-d5 (SURROGATE)		10	20	40	50	80	100	120
2-Fluorobiphenyl (SURROGATE)		10	20	40	50	80	100	120
2,4,6-Tribromophenol (SURROGATE)		10	20	40	50	80	100	120
p-Terphenyl-d14 (SURROGATE)		10	20	40	50	80	100	120
N-Nitrosodimethylamine	1**	10	20	40	50	80	100	120
Pyridine		10	20	40	50	80	100	120
Aniline		10	20	40	50	80	100	120
Phenol		10	20	40	50	80	100	120
bis(2-Chloroethyl)ether		10	20	40	50	80	100	120
2-Chlorophenol		10	20	40	50	80	100	120
n-Decane		10	20	40	50	80	100	120
1,3-Dichlorobenzene		10	20	40	50	80	100	120
1,4-Dichlorobenzene		10	20	40	50	80	100	120
Benzyl Alcohol		10	20	40	50	80	100	120
1,2-Dichlorobenzene		10	20	40	50	80	100	120
bis(2-Chloroisopropyl)ether		10	20	40	50	80	100	120
o-Cresol (2-Methylphenol)		10	20	40	50	80	100	120
N-Nitrosodipropylamine	1**	10	20	40	50	80	100	120
m,p-Cresols (3-Methylphenol & 4-Methylphenol)		10	20	40	50	80	100	120
Hexachloroethane		10	20	40	50	80	100	120
Nitrobenzene		10	20	40	50	80	100	120
Isophorone		10	20	40	50	80	100	120
2-Nitrophenol		10	20	40	50	80	100	120
2,4-Dimethylphenol		10	20	40	50	80	100	120
bis(2-Chloroethoxy)methane		10	20	40	50	80	100	120
2,4-Dichlorophenol		10	20	40	50	80	100	120
Benzoic Acid			20	40	50	80	100	120
1,2,4-Trichlorobenzene		10	20	40	50	80	100	120
Naphthalene	1	10	20	40	50	80	100	120
alpha-Terpineol		10	20	40	50	80	100	120
4-Chloroaniline		10	20	40	50	80	100	120

SW846 8270/EPA 625								
Calibration Standard Concentration Levels*								
MEGA MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
Hexachlorobutadiene		10	20	40	50	80	100	120
4-Chloro-3-methylphenol		10	20	40	50	80	100	120
2-Methylnaphthalene	1	10	20	40	50	80	100	120

1-Methylnaphthalene	1	10	20	40	50	80	100	120
Hexachlorocyclopentadiene		10	20	40	50	80	100	120
2,3-Dichloroaniline		10	20	40	50	80	100	120
2,4,6-Trichlorophenol		10	20	40	50	80	100	120
2,4,5-Trichlorophenol		10	20	40	50	80	100	120
2-Chloronaphthalene	1	10	20	40	50	80	100	120
o-Nitroaniline		10	20	40	50	80	100	120
m-Nitroaniline		10	20	40	50	80	100	120
Dimethylphthalate	1**	10	20	40	50	80	100	120
2,6-Dinitrotoluene		10	20	40	50	80	100	120
Acenaphthylene	1	10	20	40	50	80	100	120
Acenaphthene	1	10	20	40	50	80	100	120
2,4-Dinitrophenol			20	40	50	80	100	120
Dibenzofuran		10	20	40	50	80	100	120
2,4-Dinitrotoluene		10	20	40	50	80	100	120
Diethylphthalate	1**	10	20	40	50	80	100	120
4-Nitrophenol		10	20	40	50	80	100	120
Fluorene	1	10	20	40	50	80	100	120
4-Chlorophenyl phenyl ether		10	20	40	50	80	100	120
2-Methyl-4,6-dinitrophenol		10	20	40	50	80	100	120
p-Nitroaniline		10	20	40	50	80	100	120
Diphenylamine		10	20	40	50	80	100	120
1,2-Diphenylhydrazine		10	20	40	50	80	100	120
4-Bromophenyl phenylether		10	20	40	50	80	100	120
Hexachlorobenzene		10	20	40	50	80	100	120
Pentachlorophenol		10	20	40	50	80	100	120
n-Octadecane		10	20	40	50	80	100	120
Phenanthrene	1	10	20	40	50	80	100	120
Anthracene	1	10	20	40	50	80	100	120
Di-n-butylphthalate	1**	10	20	40	50	80	100	120
Fluoranthene	1	10	20	40	50	80	100	120
Pyrene	1	10	20	40	50	80	100	120
Butylbenzylphthalate	1**	10	20	40	50	80	100	120
Benzo(a)anthracene	1	10	20	40	50	80	100	120
Chrysene	1	10	20	40	50	80	100	120
bis (2-Ethylhexyl) phthalate	1	10	20	40	50	80	100	120
Di-n-octylphthalate	1**	10	20	40	50	80	100	120

SW846 8270/EPA 625								
Calibration Standard Concentration Levels*								
MEGA MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
Benzo(b)fluoranthene	1	10	20	40	50	80	100	120
Benzo(k)fluoranthene	1	10	20	40	50	80	100	120
Benzo(a)pyrene	1	10	20	40	50	80	100	120
Indeno-(1,2,3-cd)pyrene	1	10	20	40	50	80	100	120
Dibenzo(a,h)anthracene	1	10	20	40	50	80	100	120
Benzo(ghi)perylene	1	10	20	40	50	80	100	120
m-Dinitrobenzene		10	20	40	50	80	100	120
2,3,4,6-Tetrachlorophenol		10	20	40	50	80	100	120
Dinoseb		10	20	40	50	80	100	120
Carbazole	1	10	20	40	50	80	100	120

p-Benzoquinone		10	20	40	50	80	100	120
Methoxychlor	1**	10	20	40	50	80	100	120
p-Toluidine		10	20	40	50	80	100	120
m-Toluidine		10	20	40	50	80	10	120
1,4-Dinitrobenzene		10	20	40	50	80	100	120
2-Ethoxyethanol		10	20	40	50	80	100	120
Phthalic anhydride		10	20	40	50	80	100	120
Methylenebis(2-chloroaniline)		10	20	40	50	80	100	120
Dibenzo(a,e)pyrene		10	20	40	50	80	100	120

SW846 8270/EPA 625								
Calibration Standard Concentration Levels*								
AP MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
Benzaldehyde		10	20	40	50	80	100	120
Acetophenone		10	20	40	50	80	100	120
Caprolactam		10	20	40	50	80	100	120
1,1'-Biphenyl		10	20	40	50	80	100	120
Atrazine		10	20	40	50	80	100	120
Benzidine		10	20	40	50	80	100	120
3,3'-Dichlorobenzidine		10	20	40	50	80	100	120
1,4-Dioxane		10	20	40	50	80	100	120
Methyl methacrylate		10	20	40	50	80	100	120
Ethyl methacrylate		10	20	40	50	80	100	120
2-Picoline		10	20	40	50	80	100	120
N-Nitrosomethylethylamine		10	20	40	50	80	100	120
Methyl methanesulfonate		10	20	40	50	80	100	120
N-Nitrosodiethylamine		10	20	40	50	80	100	120
Ethyl methanesulfonate		10	20	40	50	80	100	120
Pentachloroethane		10	20	40	50	80	100	120
N-Nitrosopyrrolidine		10	20	40	50	80	100	120
N-Nitrosomorpholine		10	20	40	50	80	100	120
o-Toluidine		10	20	40	50	80	100	120
N-Nitrosopiperidine		10	20	40	50	80	100	120
a,a-Dimethylphenethylamine		10	20	40	50	80	100	120
2,6-Dichlorophenol		10	20	40	50	80	100	120

SW846 8270/EPA 625								
Calibration Standard Concentration Levels*								
AP MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
Hexachloropropene		10	20	40	50	80	100	120
p-Phenylenediamine		10	20	40	50	80	100	120
N-Nitrosodi-n-butylamine		10	20	40	50	80	100	120
Safrole		10	20	40	50	80	100	120
1,2,4,5-Tetrachlorobenzene		10	20	40	50	80	100	120
Isosafrole		10	20	40	50	80	100	120
1,4-Naphthoquinone		10	20	40	50	80	100	120
Pentachlorobenzene		10	20	40	50	80	100	120
1-Naphthylamine		10	20	40	50	80	100	120
2-Naphthylamine		10	20	40	50	80	100	120
5-Nitro-o-toluidine		10	20	40	50	80	100	120
1,3,5-Trinitrobenzene		10	20	40	50	80	100	120
Phenacetin		10	20	40	50	80	100	120
Diallate		10	20	40	50	80	100	120
cis-Diallate		1.5	3	6	7.5	12	15	18
trans-Diallate		8.5	17	34	42	68	85	102
4-Aminobiphenyl		10	20	40	50	80	100	120

Pentachloronitrobenzene		10	20	40	50	80	100	120
Pronamide		10	20	40	50	80	100	120
4-Nitroquinoline oxide		10	20	40	50	80	100	120
Methapyrilene	1**	10	20	40	50	80	100	120
Isodrin	1**	10	20	40	50	80	100	120
Aramite		10	20	40	50	80	100	120
Kepone	1**	10	20	40	50	80	100	120
p-(Dimethylamino)azobenzene		10	20	40	50	80	100	120
Chlorobenzilate		10	20	40	50	80	100	120
3,3'-Dimethylbenzidine		10	20	40	50	80	100	120
2-Acetylaminofluorene		10	20	40	50	80	100	120
7,12-Dimethylbenz(a)anthracene		10	20	40	50	80	100	120
3-Methylcholanthrene		10	20	40	50	80	100	120

SW846 8270/EPA 625								
Calibration Standard Concentration Levels*								
	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
Hexachlorophene		500	1000	1250	1500	1750	2000	

SW846 8270/EPA 625								
Calibration Standard Concentration Levels*								
PEST MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
Tributylphosphate		10	20	40	50	80	100	120
Triethylphosphorothioate		10	20	40	50	80	100	120
Thionazin		10	20	40	50	80	100	120
Sulfotepp		10	20	40	50	80	100	120
Phorate		10	20	40	50	80	100	120
Dimethoate		10	20	40	50	80	100	120
Disulfoton		10	20	40	50	80	100	120
Methyl parathion		10	20	40	50	80	100	120
Famphur		10	20	40	50	80	100	120
Parathion		10	20	40	50	80	100	120

SW846 8270/EPA 625								
Calibration Standard Concentration Levels*								
NEVADA MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
bis(Chloromethyl)ether		10	20	40	50	80	100	120
4-Chlorothiophenol		10	20	40	50	80	100	120
4-Chlorothioanisole		10	20	40	50	80	100	120
Phthalic acid		10	20	40	50	80	100	120
Hydroxymethyl phthalimide		10	20	40	50	80	100	120
Diphenyl sulfide		10	20	40	50	80	100	120
Diphenyl disulfide		10	20	40	50	80	100	120
Phenyl sulfone		10	20	40	50	80	100	120
Octachlorostyrene		10	20	40	50	80	100	120
Thiophenol		10	20	40	50	80	100	120
2,2'-Dichlorobenzil		10	20	40	50	80	100	120
bis(p-Chlorophenyl)disulfide		10	20	40	50	80	100	120

bis(p-Chlorophenyl)sulfone		10	20	40	50	80	100	120
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SW846 8270C/8270D/EPA 625								
Calibration Standard Concentration Levels*								
BJCO MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
1-Hexanol		10	20	40	50	80	100	120
Quinoline		10	20	40	50	80	100	120
2,4-Toluene diisocyanate		10	20	40	50	80	100	120
1-Nitropyrene		10	20	40	50	80	100	120
5-Methylchrysene		10	20	40	50	80	100	120
Benzo(j)fluoranthene		10	20	40	50	80	100	120
Dibenzo(a,h)pyrene		10	20	40	50	80	100	120
Dibenzo(a,h)acridine		10	20	40	50	80	100	120
Dibenzo(a,i)acridine		10	20	40	50	80	100	120
Dibenzo(a,l)pyrene		10	20	40	50	80	100	120
Dibenzo(a,l)pyrene		10	20	40	50	80	100	120
7H-Dibenzo(c,g)carbazole		10	20	40	50	80	10	120

All values are mg/L without the prep factor.

Indicates the calibration verification concentration level used

* Usual calibration levels using SCAN methodology

** This analyte included in this level at special client request.

(0210/Full list)

Report Date: 21-Feb-2010 08:47

Calibration History

Method : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
Start Cal Date: 16-FEB-2010 10:08
End Cal Date : 17-FEB-2010 20:54

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
17-FEB-2010 17:46	MEGA	/chem/MSD4.i/s021710.b/s4b1704.d
Cal Level: 2 , Cal Amount: 10.00000		
17-FEB-2010 18:13	MEGA	/chem/MSD4.i/s021710.b/s4b1705.d
16-FEB-2010 22:41	BJCO	/chem/MSD4.i/s021610.b/s4b1639.d
16-FEB-2010 20:07	NEV	/chem/MSD4.i/s021610.b/s4b1632.d
16-FEB-2010 15:19	HEX	/chem/MSD4.i/s021610.b/s4b1619.d
16-FEB-2010 12:43	PEST	/chem/MSD4.i/s021610.b/s4b1612.d
16-FEB-2010 10:08	AP12	/chem/MSD4.i/s021610.b/s4b1605.d
Cal Level: 3 , Cal Amount: 20.00000		
17-FEB-2010 18:40	MEGA	/chem/MSD4.i/s021710.b/s4b1706.d
16-FEB-2010 23:09	BJCO	/chem/MSD4.i/s021610.b/s4b1640.d
16-FEB-2010 20:29	NEV	/chem/MSD4.i/s021610.b/s4b1633.d
16-FEB-2010 15:41	HEX	/chem/MSD4.i/s021610.b/s4b1620.d
16-FEB-2010 13:05	PEST	/chem/MSD4.i/s021610.b/s4b1613.d
16-FEB-2010 10:30	AP12	/chem/MSD4.i/s021610.b/s4b1606.d
Cal Level: 4 , Cal Amount: 40.00000		
17-FEB-2010 19:07	MEGA	/chem/MSD4.i/s021710.b/s4b1707.d
16-FEB-2010 23:37	BJCO	/chem/MSD4.i/s021610.b/s4b1641.d
16-FEB-2010 20:51	NEV	/chem/MSD4.i/s021610.b/s4b1634.d
16-FEB-2010 16:03	HEX	/chem/MSD4.i/s021610.b/s4b1621.d
16-FEB-2010 13:27	PEST	/chem/MSD4.i/s021610.b/s4b1614.d
16-FEB-2010 10:52	AP12	/chem/MSD4.i/s021610.b/s4b1607.d
Cal Level: 5 , Cal Amount: 50.00000		
17-FEB-2010 19:34	MEGA	/chem/MSD4.i/s021710.b/s4b1708.d
17-FEB-2010 00:06	BJCO	/chem/MSD4.i/s021610.b/s4b1642.d
16-FEB-2010 21:13	NEV	/chem/MSD4.i/s021610.b/s4b1635.d
16-FEB-2010 16:26	HEX	/chem/MSD4.i/s021610.b/s4b1622.d
16-FEB-2010 13:50	PEST	/chem/MSD4.i/s021610.b/s4b1615.d
16-FEB-2010 11:14	AP12	/chem/MSD4.i/s021610.b/s4b1608.d
Cal Level: 6 , Cal Amount: 80.00000		
17-FEB-2010 20:00	MEGA	/chem/MSD4.i/s021710.b/s4b1709.d
17-FEB-2010 00:34	BJCO	/chem/MSD4.i/s021610.b/s4b1643.d
16-FEB-2010 21:35	NEV	/chem/MSD4.i/s021610.b/s4b1636.d
16-FEB-2010 17:33	PEST	/chem/MSD4.i/s021610.b/s4b1625.d
16-FEB-2010 16:48	HEX	/chem/MSD4.i/s021610.b/s4b1623.d
16-FEB-2010 11:36	AP12	/chem/MSD4.i/s021610.b/s4b1609.d

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| Cal Level: 7 , Cal Amount: 100.00000 |
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17-FEB-2010 20:27	MEGA	/chem/MSD4.i/s021710.b/s4b1710.d
17-FEB-2010 01:03	BJCO	/chem/MSD4.i/s021610.b/s4b1644.d
| 16-FEB-2010 21:57	| NEV	| /chem/MSD4.i/s021610.b/s4b1637.d
| 16-FEB-2010 17:55	| PEST	| /chem/MSD4.i/s021610.b/s4b1626.d
16-FEB-2010 17:11	HEX	/chem/MSD4.i/s021610.b/s4b1624.d
16-FEB-2010 11:59	AP12	/chem/MSD4.i/s021610.b/s4b1610.d

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+-----+
| Cal Level: 8 , Cal Amount: 120.00000 |
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17-FEB-2010 20:54	MEGA	/chem/MSD4.i/s021710.b/s4b1711.d
17-FEB-2010 01:31	BJCO	/chem/MSD4.i/s021610.b/s4b1645.d
| 16-FEB-2010 22:19	| NEV	| /chem/MSD4.i/s021610.b/s4b1638.d
16-FEB-2010 14:56	PEST	/chem/MSD4.i/s021610.b/s4b1618.d
16-FEB-2010 12:21	AP12	/chem/MSD4.i/s021610.b/s4b1611.d

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Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

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+-----+
| Ccal Level: 4 , Ccal Amount: 40.0 |
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20-FEB-2010 15:00	MEGA	/chem/MSD4.i/s022010.b/s4b2013.d
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| Ccal Level: 4 , Ccal Amount: 40.0 |
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20-FEB-2010 15:27	AP12	/chem/MSD4.i/s022010.b/s4b2014.d
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| Ccal Level: 4 , Ccal Amount: 40.0 |
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20-FEB-2010 14:32	MEGA	/chem/MSD4.i/s022010.b/s4b2012.d
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| Ccal Level: 4 , Ccal Amount: 40.0 |
+-----+

20-FEB-2010 13:50	MEGA	/chem/MSD4.i/s022010.b/s4b2010.d
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| Ccal Level: 4 , Ccal Amount: 40.0 |
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20-FEB-2010 13:00	MEGA	/chem/MSD4.i/s022010.b/s4b2008.d
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| Ccal Level: 4 , Ccal Amount: 40.0 |
+-----+

20-FEB-2010 13:27	AP12	/chem/MSD4.i/s022010.b/s4b2009.d
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GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 16-FEB-2010 10:08
 End Cal Date : 17-FEB-2010 20:54
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
 Cal Date : 21-Feb-2010 08:46 jos00786

Calibration File Names:

Level 1: /chem/MSD4.i/s021710.b/s4b1704.d
 Level 2: /chem/MSD4.i/s021710.b/s4b1705.d
 Level 3: /chem/MSD4.i/s021710.b/s4b1706.d
 Level 4: /chem/MSD4.i/s021710.b/s4b1707.d
 Level 5: /chem/MSD4.i/s021710.b/s4b1708.d
 Level 6: /chem/MSD4.i/s021710.b/s4b1709.d
 Level 7: /chem/MSD4.i/s021710.b/s4b1710.d
 Level 8: /chem/MSD4.i/s021710.b/s4b1711.d

Compound	i	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	Coeficients	m1	m2	%RSD or R^2
1 N-Methyl-N-nitrosomethylamine	+++ 0.81877	0.80418 0.77310	0.85785 0.77310	0.83980 0.82368	0.82845 0.82845	AVRG	AVRG	0.82083	3.28243				
2 Pyridine	+++ 1.16851	1.09400 1.11137	1.16757 1.11137	1.17533 1.15784	1.17410 1.17410	AVRG	AVRG	1.14982	2.87629				
4 Aniline	+++ 0.55684	0.56430 0.52778	0.58641 0.52778	0.58402 0.56152	0.57033 0.57033	AVRG	AVRG	0.56446	3.47645				
209 Benzaldehyde	+++ 0.75183	0.94179 0.69451	0.94566 0.69451	0.91462 1.54422	0.89926 1.47668	+++ 1.43163	AVRG	0.85795	12.51172				
6 Phenol	+++ 1.39841	1.48396 1.27213	1.59185 1.27213	1.54422 1.47668	1.43163 1.43163	AVRG	AVRG	1.45555	7.0445				

GEL Laboratories LLC

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 Cal Date : 21-Feb-2010 08:46 jos00786

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	ml	m2	%RSD or R^2
7 bis (2-Chloroethy-) ether	0.93473 0.77707	0.90382 0.69920	0.95402 0.69920	0.90084 0.87022	0.87022 0.82025	0.82025	AVRG		0.85752		10.08779
8 2-Chlorophenol	++++ 1.16785	1.16562 1.09920	1.26471 1.09920	1.25653 1.20113	1.20113 1.19776	1.19776	AVRG		1.19326		4.71116
203 n-Decane	++++ ++++	1.29375 ++++	1.27793 ++++	1.16954 1.07037	1.07037 0.91611	0.91611	AVRG		1.14554		13.68872
9 1,3-Dichlorobenzene	++++ 1.08388	1.27869 0.98449	1.32765 0.98449	1.29245 1.22850	1.22850 1.12921	1.12921	AVRG		1.18927		10.63494
11 1,4-Dichlorobenzene	++++ 1.05734	1.30910 0.96758	1.36807 0.96758	1.31235 0.69804	1.23037 0.68487	1.09872	AVRG		1.19193		12.71750
12 Benzyl alcohol	++++ 0.72229	0.47129 0.65983	0.64378 0.65983	0.69804 1.10205	0.68487 1.01061	0.74780	AVRG		0.66113		13.74141
13 1,2-Dichlorobenzene	++++ ++++	1.21731 ++++	1.23554 ++++	1.10205 1.72522	1.01061 1.62425	0.86196	AVRG		1.08549		14.25255
14 bis (2-Chloroisopropyl) ether	++++ 1.43930	1.77530 1.31379	1.83342 1.31379	1.72522 0.90903	1.62425 0.80709	1.51854	AVRG		1.60426		11.81975
15 o-Cresol	++++ 0.73014	1.01362 ++++	1.03371 ++++	0.90903 0.87618	0.80709 0.87618	0.76350	AVRG		0.87618		14.75629

GEL Laboratories LLC

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 Cal Date : 21-Feb-2010 08:46 jos00786

Compound	1	10	20	40	50	80	Curve	b	Coefficients ml	m2	3RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
16 Acetophenone	++++ 1.11721	1.27742 1.03412	1.29571 1.26933	1.26933	1.27539	++++ 1.21136	AVRG		1.21136		8.97525
17 N-Nitrosodipropylamine	0.72496 0.81921	0.82527 0.73684	0.88410 0.73684	0.86015	0.83602	0.83763	AVRG		0.81552		6.89055
18 m,p-Cresols	++++ 1.21648	1.12604 1.13757	1.24220 1.13757	1.22722	1.18662	1.21213	AVRG		1.19261		3.76620
19 Hexachloroethane	++++ 0.41075	0.47152 0.38331	0.49032 0.38331	0.48179	0.45923	0.43586	AVRG		0.44754		8.81052
21 Nitrobenzene	++++ 0.29019	0.30897 0.27268	0.31314	0.29994	0.29402	0.30056	AVRG		0.29707		4.49909
22 Isophorone	++++ 0.61955	0.62344 0.59276	0.65493	0.60696	0.60549	0.63323	AVRG		0.61948		3.31332
23 2-Nitrophenol	++++ 0.13758	0.20191 ++++	0.16796	0.15767	0.15514	0.14588	AVRG		0.16102		14.01066
24 2,4-Dimethylphenol	++++ 0.22457	0.27305 0.24762	0.28506	0.24690	0.22220	0.33328	AVRG		0.26181		14.91862
25 bis(2-Chloroethoxy)methane	++++ 0.34104	0.41155 0.32400	0.41756	0.37838	0.36379	0.35926	AVRG		0.37080		9.31829

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 16-FEB-2010 10:08
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Quant Method : ISTD
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Integrator : HP RTE
Method file : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
Cal Date : 21-Feb-2010 08:46 jos00786

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
26 2,4-Dichlorophenol	++++ 0.23366	0.23723 0.22120	0.23055	0.22906	0.22944	0.24021	AVRG		0.22734		4.63274
27 Benzoic acid	++++ 283629	++++ 318420	31319	84119	121130	243867	LINR	0.32516	0.24917		0.99486
28 2,4-Trichlorobenzene	++++ 0.20919	0.25902 0.19569	0.26255	0.23942	0.23042	0.22573	AVRG		0.23172		10.56957
30 Naphthalene	1.06631 ++++	0.98051 ++++	0.98310	0.88186	0.82227	0.76240	AVRG		0.91608		2.42718
204 alpha-Terpineol	++++ 0.17224	0.22196 0.16167	0.22750	0.20447	0.19403	0.18096	AVRG		0.19469		12.75386
31 4-Chloroaniline	++++ 0.40373	0.36469 0.37987	0.43602	0.44386	0.42563	0.42485	AVRG		0.41124		7.21212
189 Caprolactan	++++ 0.09330	0.08357 0.08176	0.09284	0.09719	0.09770	++++	AVRG		0.09106		7.49038
32 Hexachlorobutadiene	++++ 0.0904	0.12040 0.10156	0.12555	0.11981	0.11624	0.11342	AVRG		0.11515		6.94622
33 4-Chloro-3-methylphenol	++++ 0.24034	0.21139 0.22997	0.22419	0.23112	0.23100	0.24555	AVRG		0.23051		4.78253

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 16-FEB-2010 10:08
 End Cal Date : 17-FEB-2010 20:54
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
 Cal Date : 21-Feb-2010 08:46 jos00786

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	MSD or R ²
34 2-Methylnaphthalene	0.605391 0.465871	0.602571 0.435681	0.613071 0.435681	0.551521 0.435681	0.523355 0.435681	0.497881 0.435681	AVRG AVRG		0.536941 0.536941		12.594391 12.594391
35 1-Methylnaphthalene	0.614041 0.447901	0.581811 0.412121	0.596421 0.412121	0.534461 0.412121	0.506941 0.412121	0.483161 0.412121	AVRG AVRG		0.522111 0.522111		13.932721 13.932721
36 Hexachlorocyclopentadiene	0.176591 0.161491	0.180051 0.161491	0.203671 0.161491	0.203031 0.161491	0.189861 0.161491	0.196781 0.161491	AVRG AVRG		0.187351 0.187351		8.282761 8.282761
208 1,1'-Bi(phenyl)	0.940011 0.940011	1.240241 0.940011	1.304471 0.940011	1.206091 0.940011	1.180321 0.940011	0.940011 0.940011	AVRG AVRG		1.131591 1.131591		14.345161 14.345161
205 2,3-Dichloroaniline	0.416241 0.416241	0.574651 0.416241	0.595771 0.416241	0.564691 0.416241	0.531141 0.416241	0.460181 0.416241	AVRG AVRG		0.523781 0.523781		13.529651 13.529651
37 2,4,6-Trichlorophenol	0.203211 0.203211	0.276131 0.276131	0.287161 0.276131	0.286731 0.276131	0.261801 0.276131	0.239121 0.276131	AVRG AVRG		0.259031 0.259031		12.653061 12.653061
38 2,4,5-Trichlorophenol	0.269211 1.083371	0.297831 1.092481	0.336071 1.071621	0.335401 0.984981	0.324191 0.925391	0.302421 0.811871	AVRG AVRG		0.299551 0.299551		12.749681 12.749681
40 2-Chloronaphthalene	0.752341 0.752341	0.266331 0.266331	0.279391 0.279391	0.277441 0.277441	0.267551 0.267551	0.268371 0.268371	AVRG AVRG		0.960291 0.960291		14.234861 14.234861
42 o-Nitroaniline	0.256791 0.256791	0.245131 0.245131	0.245131 0.245131	0.245131 0.245131	0.245131 0.245131	0.245131 0.245131	AVRG AVRG		0.265861 0.265861		4.446581 4.446581

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 16-FEB-2010 10:08
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 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
 Cal Date : 21-Feb-2010 08:46 jos00786

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m.	m2	%RSD or R^2
41 m-Nitroaniline	++++ 192315	11654 209888	24521	75686	97644	173047	LINR	0.07505	0.27104		0.99095
43 Dimethylphthalate	++++ 0.94992	1.18528 0.89258	1.19281	1.11730	1.07497	1.00754	AVRG		1.05863		10.71284
44 2,6-Dinitrotoluene	++++ 0.22203	0.27554 0.20846	0.23243	0.27380	0.26529	0.23986	AVRG		0.25249		11.51558
45 Acenaphthylene	1.60642 1.24237	1.68525 1.13960	1.66961	1.54331	1.46739	1.33676	AVRG		1.46134		13.88756
47 Acenaphthene	1.7310 ++++	1.06472 ++++	1.05409	0.94017	0.86426	++++	AVRG		1.01927		11.73516
48 2,4-Dinitrophenol	++++ 0.09024	++++ 0.08706	0.09699	0.10522	0.10011	0.09547	AVRG		0.09585		6.86084
49 Dibenzofuran	++++ 1.03074	1.44329 ++++	1.42238	1.31607	1.23465	1.11457	AVRG		1.26028		13.15635
50 2,4-Dinitrotoluene	++++ 0.31039	0.34085 0.29290	0.35253	0.34791	0.33556	0.32666	AVRG		0.32954		6.49309
51 Diethylphthalate	++++ 0.82293	1.11688 ++++	1.13783	1.03943	0.98429	0.87732	AVRG		0.99645		12.75674

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 Integrator : HP RTE
 Method file : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
 Cal Date : 21-Feb-2010 08:46 jos00786

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	RSD or R^2
52 4-Nitrophenol	++++ 151829	8634 180675	22919	5530	66218	141247	LINEAR	0.16462	0.22976		0.99262
53 Fluorene	++++ 1.21543	1.26077 ++++	1.23255	1.07905	0.98406	0.88892	AVRG		1.11013		13.63493
54 4-Chlorophenylphenylether	++++ ++++	0.54200 ++++	0.53277	0.47774	0.44237	0.37858	AVRG		0.47469		14.20786
55 2-Methyl-4,6-dinitrophenol	++++ 0.10876	0.08970 0.10072	0.11021	0.11787	0.11534	0.11595	AVRG		0.10836		9.28036
56 p-Nitroaniline	++++ 0.21242	0.19074 0.20920	0.14248	0.19133	0.18079	0.22623	AVRG				
133 Diphenylamine	++++ 0.46362	0.63294 0.42647	0.58718	0.55648	0.53812	0.50056	AVRG		0.19331		14.09219
58 1,2-Diphenylhydrazine	++++ 0.60070	0.79439 0.58386	0.79164	0.72139	0.70540	0.63411	AVRG		0.52934		13.49611
59 Tributylphosphate	++++ 1.00083	1.41887 ++++	1.33083	1.23480	1.19530	1.09018	AVRG		0.69021		12.52148
61 4-Bromophenylphenylether	++++ 0.14157	0.19605 ++++	0.20149	0.18140	0.17572	0.15358	AVRG		0.21180		12.63123
							AVRG		0.17497		13.43356

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients ml	m2	1RSD or R ²
63 Hexachlorobenzene	++++ 0.15108	0.21893 ++++	0.21620 ++++	0.19320 ++++	0.18788 ++++	0.16547 ++++	AVRG		0.18879		14.30344
207 Atrazine	++++ 0.03578	0.04799 ++++	0.05161 ++++	0.05043 ++++	0.04680 ++++	++++	AVRG		0.04652		13.53806
65 Pentachlorophenol	++++ 0.10052	0.07342 0.09343	0.09198 0.09198	0.09193 0.09193	0.09481 0.09481	0.10084 0.10084	AVRG		0.09256		10.08063
206 n-Octadecane	++++ 0.27543	0.50573 0.26020	0.48522 0.48522	0.39213 0.39213	0.35974 0.35974	0.29152 0.29152	AVRG		0.36714		27.10026
68 Phenanthrene	1.16307 ++++	1.06026 ++++	1.06504 ++++	0.94403 0.94403	0.89351 0.89351	0.79560 0.79560	AVRG		0.98692		13.56996
69 Anthracene	1.09158 ++++	1.10892 ++++	1.11777 ++++	0.96353 0.96353	0.93487 0.93487	0.78797 0.78797	AVRG		1.00244		12.65560
72 Di-n-butylphthalate	++++ 1.21045	1.24319 ++++	1.24319 ++++	1.07041 1.07041	1.00179 1.00179	0.88540 0.88540	AVRG		1.08225		13.68205
76 Fluoranthene	0.96471 ++++	1.03816 ++++	1.03945 ++++	0.91347 0.91347	0.84058 0.84058	0.74892 0.74892	AVRG		0.92422		12.40687
77 Benzidine	++++ 0.34303	0.31152 ++++	0.27769 ++++	0.24474 0.24474	0.34891 0.34891	++++	AVRG		0.30518		14.46426

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
79 Pyrene	1.18417 0.94179	1.19596 0.90396	1.19763 0.90396	1.13694 0.90396	1.18091 0.90396	0.98010 0.90396	AVRG AVRG	1.09018	11.54062		
85 Butylbenzylphthalate	++++ ++++	0.52625 ++++	0.52238 ++++	0.45271 ++++	0.45022 ++++	0.36271 ++++	AVRG AVRG	0.46266	14.52117		
89 Benzo(a)anthracene	0.97321 0.89529	0.99775 0.85221	0.99995 0.85221	0.97301 0.85221	0.90521 0.85221	0.90551 0.85221	AVRG AVRG	0.93727	5.90712		
90 3,3'-Dichlorobenzidine	++++ 0.26751	0.24562 0.25830	0.25334 0.25830	0.29621 0.25830	0.29123 0.25830	++++ 0.25830	AVRG AVRG	0.26873	7.70295		
92 Chrysene	1.12659 0.82431	0.98604 0.78838	1.01758 0.78838	0.94487 0.78838	0.95184 0.78838	0.90419 0.78838	AVRG AVRG	0.94297	11.38665		
93 bis(2-Ethylhexyl)phthalate	0.55319 0.54547	0.71676 ++++	0.77387 ++++	0.73808 ++++	0.73538 ++++	0.57922 ++++	AVRG AVRG	0.66314	14.94756		
94 Di-n-octylphthalate	++++ 1.19415	1.06000 1.07883	1.20352 1.07883	1.30505 1.07883	1.36606 1.07883	1.16652 1.07883	AVRG AVRG	1.19630	9.28091		
95 Benzo(b)fluoranthene	0.83193 0.99580	0.94367 0.91907	0.94819 0.91907	1.01941 0.91907	0.96345 0.91907	0.92745 0.91907	AVRG AVRG	0.94362	5.97092		
96 Benzo(k)fluoranthene	0.95209 0.90744	0.94814 0.89094	1.00798 0.89094	0.95552 0.89094	1.01516 0.89094	0.96096 0.89094	AVRG AVRG	0.95478	4.49317		

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	RSD or R^2
	100	120									
	Level 7	Level 8									
97 Benzo(a)pyrene	0.69771	0.80448	0.83988	0.84051	0.82813	0.83137	AVRG		0.80648		5.86182
	0.81974	0.79004									
99 Indeno(1,2,3-cd)pyrene	0.67344	0.77380	0.77700	0.76133	0.69140	0.74080	AVRG		0.72396		6.03300
	0.68357	0.69031									
100 Dibenzo(a,h)anthracene	0.51729	0.63864	0.63820	0.62774	0.57478	0.61755	AVRG		0.59590		7.08921
	0.57370	0.57932									
101 Benzo(ghi)perylene	0.59457	0.64715	0.63510	0.62324	0.56676	0.60200	AVRG		0.59674		6.22258
	0.54542	0.55969									
102 1,4-Dioxane	++++	0.43701	0.44852	0.42721	0.43169	++++	AVRG		0.41759		7.63695
	0.39943	0.36164									
103 Methyl methacrylate	++++	0.21383	0.22321	0.21645	0.21988	++++	AVRG		0.20750		9.18882
	0.19919	0.17245									
104 Ethyl methacrylate	++++	0.91879	0.93126	0.88754	0.88037	++++	AVRG		0.85622		9.49222
	0.80021	0.71918									
105 2-Picoline	++++	1.47733	1.50862	1.43210	1.41825	++++	AVRG		1.37151		10.71368
	1.26976	1.12301									
106 N-Nitrosomethylethylamine	++++	0.57675	0.59802	0.59212	0.61345	++++	AVRG		0.59363		2.12418
	0.59701	0.58444									

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Coefficients b	m2	%RSD or R^2
107 Methyl methanesulfonate	++++ 0.41704	0.44808 0.41778	0.44707	0.44147	0.45530	++++ AVRG	0.43779		3.74385
108 N-Nitrosodiethylamine	++++ 0.57594	0.58251 0.55399	0.60714	0.58911	0.61705	++++ AVRG	0.58762		3.83799
109 Ethyl Methanesulfonate	++++ 0.67520	0.70032 0.66380	0.71032	0.70848	0.72117	++++ AVRG	0.69655		3.19791
110 Pentachloroethane	++++ 0.28637	0.28931 0.26717	0.29897	0.29784	0.30591	++++ AVRG	0.29093		4.67504
111 N-Nitrosopyrrolidine	++++ 0.54119	0.58623 0.50935	0.62383	0.60989	0.63161	++++ AVRG	0.58368		8.36977
113 N-Nitrosomorpholine	++++ 0.44347	0.50465 0.40193	0.52297	0.49959	0.51498	++++ AVRG	0.48127		9.95690
114 o-Toluidine	++++ 1.65860	2.00344 1.47087	2.00343	1.95423	1.93613	++++ AVRG	1.83778		12.04112
115 N-Nitrosopiperidine	++++ 0.15258	0.15854 0.14926	0.16315	0.16343	0.16587	++++ AVRG	0.15881		4.17892
116 a,a-Dimethylphenethylamine	++++ 0.75299	0.61186 0.72331	0.67471	0.72021	0.74909	++++ AVRG	0.70536		7.60986

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
117 Triethylphosphorothioate	++++ 0.10388	0.13138 0.09438	0.13619 0.09438	0.12493 0.09438	0.12070 0.09438	0.10932 0.09438	AVRG		0.11725		12.9991
118 2,6-Dichlorophenol	++++ 0.19860	0.19487 0.18992	0.20729 0.18992	0.20698 0.18992	0.21343 0.18992	++++ 0.18992	AVRG		0.20017		5.53353
119 Hexachloropropene	++++ 76809	6213 108614	14277 108614	25557 108614	44121 108614	++++ 108614	LINR	0.05706	0.08815		0.99928
120 p-Phenylenediamine	++++ 0.21308	0.22424 0.20135	0.27453 0.20135	0.23048 0.20135	0.25311 0.20135	++++ 0.20135	AVRG		0.23280		11.54278
121 N-Nitrosodi-n-butylamine	++++ 0.18654	0.23924 0.18056	0.21944 0.18056	0.21484 0.18056	0.21061 0.18056	++++ 0.18056	AVRG		0.20854		10.44422
122 Safrrole	++++ 0.16895	0.19035 0.15881	0.19915 0.15881	0.19251 0.15881	0.19174 0.15881	++++ 0.15881	AVRG		0.18358		8.65460
123 1,2,4,5-Tetrachlorobenzene	++++ 0.29674	0.38887 0.29674	0.40514 0.29674	0.38043 0.29674	0.37090 0.29674	++++ 0.29674	AVRG		0.36842		11.39903
124 Isosafrole	++++ 0.33882	0.34486 0.32937	0.37235 0.32937	0.35699 0.32937	0.36921 0.32937	++++ 0.32937	AVRG		0.35193		4.87519
125 1,4-Naphthoquinone	++++ 0.26182	0.33075 0.25760	0.35799 0.25760	0.35631 0.25760	0.32421 0.25760	++++ 0.25760	AVRG		0.31478		14.21466

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Compound	1	10	20	40	50	80	Curve	b	Coefficients m1	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
126 m-Dinitrobenzene	++++	0.20126	0.21212	0.21006	0.20086	0.19834	AVRG		0.19719		6.99490
	0.19376	0.17393									
127 Pentachlorobenzene	++++	0.36147	0.36584	0.35110	0.33904	++++	AVRG		0.32751		13.16915
	0.28436	0.26326									
128 1-Naphthylamine	++++	0.91435	0.97977	0.91657	0.92502	++++	AVRG		0.88383		9.40234
	0.81151	0.75579									
129 2-Naphthylamine	++++	1.00383	1.07201	0.93930	0.94511	++++	AVRG		0.93409		10.77629
	0.85020	0.79412									
130 2,3,4,6-Tetrachlorophenol	++++	0.19124	0.21128	0.22902	0.23318	0.22215	AVRG		0.21610		6.46391
	0.21552	0.21028									
131 5-Nitro-o-toluidine	++++	0.23112	0.27932	0.27248	0.29398	++++	AVRG		0.27364		8.02960
	0.28148	0.28347									
132 Thionazin	++++	0.18285	0.18834	0.17846	0.17300	0.15904	AVRG		0.16800		10.16661
	0.15116	0.14315									
134 Sulfotepp	++++	0.13177	0.13059	0.11764	0.11040	0.09449	AVRG		0.11698		13.19952
	++++	++++									
135 Phorate	++++	0.51786	0.51840	0.48373	0.44687	0.39200	AVRG		0.45381		14.31736
	0.36398	++++									

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Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
	100	120									
	Level 7	Level 8									
136 1,3,5-Trinitrobenzene	++++	4852	13462	26997	43144	++++					
	86566	113806					LINEAR	0.11919	0.12296		0.99947
137 Phenacetin	++++	0.24364	0.28017	0.28177	0.30123	++++					
	0.27930	0.27370					AVRG		0.27663		6.75939
138 Dillate	++++	0.34231	0.35600	0.33087	0.31611	++++					
	0.25464	++++					AVRG		0.31999		12.30262
139 Dimerhoate	++++	0.32025	0.33190	0.33278	0.32579	0.31322					
	0.30234	0.28390					AVRG		0.31574		5.59483
140 4-Aminobiphenyl	++++	0.58357	0.58918	0.49357	0.55675	++++					
	0.39500	0.35668					AVRG		0.49579		20.10074
141 Pentachloronitrobenzene	++++	0.05346	0.05690	0.05795	0.05582	++++					
	0.04084	++++					AVRG		0.05299		13.19738
142 Pronamide	++++	0.27573	0.28559	0.26119	0.22116	++++					
	0.15026	0.13287					AVRG		0.22113		29.69110
143 Dinoseb	++++	0.12009	0.15073	0.15298	0.15310	0.14635					
	0.13858	0.12686					AVRG		0.14124		9.39270
144 Disulfoton	++++	0.42976	0.42840	0.39630	0.36664	0.31890					
	++++	++++					AVRG		0.38800		12.00353

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
145 Methyl parathion	+++ 0.20924	0.21331 0.19247	0.23151	0.23535	0.22589	0.22988	AVRG		0.21961		6.97965
146 4-Nitroquinoline-1-oxide	+++ 0.01079	0.01030 0.01052	0.01280	0.01596	0.01689	++++	AVRG		0.01286		22.67654
147 Methapyrilene	+++ 0.28364	0.34603 0.25466	0.35642	0.37341	0.35320	++++	AVRG		0.32789		14.41932
148 Isodrin	+++ 0.07616	0.10394 ++++	0.10549	0.10192	0.09675	++++	AVRG		0.09685		12.41887
149 Aramite	+++ 0.04781	0.04726 0.04427	0.05217	0.05593	0.05837	++++	AVRG		0.05097		10.72346
150 Kepone	+++ 0.07109	0.07177 0.06648	0.07418	0.08361	0.07814	++++	AVRG		0.07421		8.06993
151 p-(Dimethylamino)azobenzene	+++ 0.26452	0.30382 ++++	0.37529	0.33102	0.32856	++++	AVRG		0.32064		12.65817
152 Chlorobenzilate	+++ 0.22811	0.29477 ++++	0.34954	0.31392	0.29606	++++	AVRG		0.29648		14.89095
153 3,3'-Dimethylbenzidine	+++ 0.43589	0.48872 0.43928	0.44056	0.45254	0.47761	++++	AVRG		0.45577		4.87841

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
154 Famphur	++++ 0.2987	0.32477 0.26841	0.33787	0.33991	0.30795	0.31812	AVRG		0.31368		7.94057
155 2-Acetylaminofluorene	++++ 0.29521	0.22005 0.29946	0.22331	0.29381	0.29224	++++	AVRG		0.27068		14.05582
157 7,12Dimethylbenz(a)anthracene	++++ 0.41903	0.40311 0.39435	0.45332	0.44530	0.45829	++++	AVRG		0.42890		6.33054
158 3-Methylcholanthrene	++++ 0.38490	0.34581 0.37939	0.36525	0.38823	0.39426	++++	AVRG		0.37631		4.75402
26 Phthalic anhydride	++++ 0.08617	0.03243 0.08295	0.03910	0.06399	0.06930	0.08256	AVRG		0.06521		33.30166
173 Carbazole	9199 756314	0.03126 ++++	125703	296392	404339	672443	AVRG				0.99415
174 Hexachlorophene	++++ 0.03930	0.03174 ++++	0.04319	0.03971	0.04046	0.03942	AVRG	-0.01291	0.69109		9.81378
179 Dibenzo(a,e)pyrene	++++ 0.24280	0.29736 0.27708	0.25325	0.31477	0.26273	0.29083	AVRG		0.27697		9.28655
185 (2,3-Dibromopropyl)phosphate	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.008e+03		0.00e+00

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Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	Coefficients m	n2	%RSD or R^2
100	Level 7	Level 8									
184 p-Benzoinone	++++	705	2799	8892	14980	23399	LINEAR	0.28674	0.10317		0.99336
191 Parathion	++++	0.07421	0.07950	0.08071	0.07544	0.07054	AVRG		0.0729		8.80466
192 Methoxychlor	++++	0.44454	0.50851	0.49917	0.47118	0.42407	AVRG		0.44246		12.55033
210 m-Toluidine	++++	1.73695	1.55746	1.58094	1.66589	1.70837	AVRG		1.67187		4.58370
211 p-Toluidine	++++	1.01239	1.35463	1.58657	1.43895	1.52710	AVRG		1.35079		14.84253
212 Cis Diolate	++++	0.34462	0.36403	0.36133	0.37192	++++	AVRG		0.35497		3.49571
213 Trans Diolate	++++	0.40272	0.41883	0.38926	0.37189	++++	AVRG		0.37646		12.30262
214 1,4-Dinitrobenzene	++++	0.19649	0.21008	0.21335	0.20967	0.21262	AVRG		0.20553		3.78486
215 2-Ethoxyethanol	++++	0.54819	0.62615	0.62879	0.60257	0.60909	AVRG		0.59723		4.87528

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 16-FEB-2010 10:08
 End Cal Date : 17-FEB-2010 20:54
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
 Cal Date : 21-Feb-2010 08:46 jos00786

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m	m2	%RSD or R^2
216 Methylenebis(2-chloroaniline)	++++ 12922	6144 132787	15434	38735	45971	113009	LNIR	0.25577	0.15818		0.99125
226 2,2'-Dichlorobenzil	++++ 0.58808	0.73391 0.57246	0.77755	0.74844	0.71106	0.65210	AVRG		0.68337		11.76513
227 4-Chlorothiobanisole	++++ 0.20051	0.24561 0.19154	0.23783	0.23733	0.24554	0.21820	AVRG		0.22522		9.80844
228 4-Chlorothiophenol	++++ 0.19258	0.15037 0.18665	0.17527	0.19833	0.21396	0.20296	AVRG		0.18859		11.04491
229 bis(p-Chlorophenyl) sulfone	++++ 0.31929	0.40444 0.30796	0.41025	0.38864	0.38040	0.35088	AVRG		0.36598		11.11858
230 bis(p-Chlorophenyl) disulfide	++++ 0.12406	0.11666 0.12371	0.11749	0.12579	0.12271	0.12904	AVRG		0.12278		3.58442
231 Diphenyl disulfide	++++ 0.19997	0.22472 0.19140	0.22035	0.22400	0.22324	0.21028	AVRG		0.21342		6.22636
232 Diphenyl sulfide	++++ 0.53152	0.76128 ++++	0.71567	0.69045	0.67419	0.55521	AVRG		0.65472		13.96615
233 Phenyl sulfone	++++ 0.43866	0.55733 0.41074	0.53385	0.51171	0.50602	0.45558	AVRG		0.48770		10.99473

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 16-FEB-2010 10:08
 End Cal Date : 17-FEB-2010 20:54
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
 Cal Date : 21-Feb-2010 08:46 jos00786

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
234 Hydroxymethyl phthalimide	++++ 0.07582	0.10740 ++++	0.13136	0.09874	0.09826	0.07684	AVRG		0.09302		14.33633
235 Phthalic acid	++++ 0.08975	0.01621 0.11118	0.03767	0.05009	0.06595	0.07782	AVRG			3.06410	50.37110<
236 Thiophenol	++++ 1.12687	1.03067 1.06642	1.11649	1.22885	1.26443	1.18301	AVRG		1.14525		7.40274
237 bis (Chloromethyl) ether	++++ 0.79484	0.89985 0.75999	0.82019	0.86064	0.86684	0.81882	AVRG		0.83160		5.70733
238 Octachlorostyrene	++++ 0.05421	0.07975 ++++	0.07412	0.07078	0.06803	0.05854	AVRG		0.06757		14.22227
239 Dibenzo(a,h)pyrene	++++ 0.31926	0.27824 0.36821	0.28119	0.28194	++++	0.30474	AVRG		0.30563		11.34606
240 Benzo(j)fluoranthene	++++ 0.75685	0.78026 0.74190	0.80293	0.79275	++++	0.79934	AVRG		0.77901		3.16722
241 Dibenzo(a,j)acridine	++++ 0.56144	0.55533 0.56852	0.55827	0.55757	++++	0.53278	AVRG		0.55565		2.17858
242 Dibenz(a,h)acridine	++++ 0.56140	0.55365 0.56303	0.54501	0.54815	++++	0.53368	AVRG		0.55082		1.99452

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 16-FEB-2010 10:08
 End Cal Date : 17-FEB-2010 20:54
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
 Cal Date : 21-Feb-2010 08:46 jos00786

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
	100	120									
	Level 7	Level 8									
243 Quinoline	++++	0.55484	0.58415	0.54458	++++	0.49996	AVRG		0.51616		10.41924
	0.46695	0.44650									
244 2,4-Toluene Diisocyanate	++++	0.37009	0.39254	0.36282	++++	0.34089	AVRG		0.34719		10.08701
	0.31981	0.29701									
245 Dibenzo(a,i)pyrene	++++	0.16820	0.15467	0.17408	++++	0.18899	AVRG		0.17929		11.91220
	0.21050	++++									
246 1-Nitropyrene	++++	5444	16162	41252	++++	64074	LINR	0.19997	0.17350		0.99020
	136367	128837									
247 5-Methylchrysene	++++	0.60386	0.58519	0.56613	++++	0.51437	AVRG		0.52948		12.47937
	0.46177	0.44559									
248 Dibenzo(a,l)pyrene	++++	0.28921	0.28347	0.27383	++++	0.28368	AVRG		0.29144		6.31538
	0.29157	0.32686									
249 7H-Dibenzo(c,g)carbazole	++++	0.37231	0.38819	0.39189	++++	0.37956	AVRG		0.39488		5.02538
	0.41424	0.42310									
250 1-Hexanol	++++	0.24321	0.87889	0.85379	++++	0.91367	AVRG		0.71016		33.33973
	0.75944	0.71193									
251 Propylene glycol	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
	++++	++++									

GEL Laboratories LLC

INITIAL CALIBRATION DATA

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 End Cal Date : 17-FEB-2010 20:54
 Quant Method : ISTD
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 Integrator : HP RTE
 Method file : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
 Cal Date : 21-Feb-2010 08:46 jos00786

Compound	1	10	20	40	50	80	Curve	b	Coefficients	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
M 222 Trichlorophenols	++++	0.28698	0.31161	0.31106	0.29300	0.27077					
	0.23621	0.20896				AVRG		0.27408			14.1204
M 223 Tetrachlorophenols	++++	0.19124	0.21128	0.22902	0.23318	0.22215					
	0.21552	0.21028				AVRG		0.21610			6.46391
M 224 Benzo (b,k) fluoranthene	0.89201	0.94590	0.97808	0.98746	0.98931	0.94420					
	0.95162	0.90501				AVRG		0.94920			3.81360
M 225 TTO Sum Semivolatiles	++++	++++	++++	++++	++++	++++					
	++++	++++				AVRG		0.000e+00			0.000e+00
\$ 3 2-Fluorophenol	++++	1.11949	1.20487	1.20751	1.16020	1.13727					
	1.10132	1.04464				AVRG		1.13979			5.14574
\$ 5 Phenol-d5	++++	1.41206	1.54055	1.49175	1.43963	1.43622					
	1.40127	1.30188				AVRG		1.43191			5.23406
\$ 187 2-Chlorophenol-d4	++++	++++	++++	++++	++++	++++					
	++++	++++				AVRG		0.000e+00			0.000e+00
\$ 188 1,2-Dichlorobenzene-d4	++++	++++	++++	++++	++++	++++					
	++++	++++				AVRG		0.000e+00			0.000e+00
\$ 20 Nitrobenzene-d5	++++	0.30671	0.31936	0.30528	0.30281	0.31459					
	0.30734	0.29410				AVRG		0.30717			2.64953

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 16-FEB-2010 10:08
 End Cal Date : 17-FEB-2010 20:54
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
 Cal Date : 21-Feb-2010 08:46 jos00786

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
	100	120									
	Level 7	Level 8									
\$ 39 2-Fluorobiphenyl	++++ 0.81588	1.18516 ++++	1.18170	1.09032	1.03055	0.89228	AVRG		1.03281		14.68837
\$ 60 2,4,6-Tribromophenol	++++ 0.12318	0.12007 0.11595	0.12799	0.13293	0.12909	0.12647	AVRG		0.12510		4.61597
\$ 81 p-Terphenyl-d-4	++++ 0.55063	0.70671 0.51942	0.70628	0.66800	0.67922	0.54676	AVRG		0.62529		13.19917

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 16-FEB-2010 10:08
End Cal Date : 17-FEB-2010 20:54
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
Cal Date : 21-Feb-2010 08:46 jos00786

Curve	Formula	Units
Averaged	Ant = Rsp/ml	Response
Linear	Ant = b + Rsp/ml	Response

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 16-FEB-2010 18:17
Lab File ID: s4b1627.d Init. Cal. Date(s): 16-FEB-2010 17-FEB-2010
Analysis Type: Init. Cal. Times: 10:08 01:31
Lab Sample ID: WBN100120-08.1 Quant Type: ISTD
Method: /chem/MSD4.i/s021610.b/MSD4-M8270C-AQA-021610a.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
209 Benzaldehyde	0.85795	0.76907	0.76907	0.000	-10.35927	60.00000	Averaged
16 Acetophenone	1.21136	1.24515	1.24515	0.000	2.78936	60.00000	Averaged
189 Caprolactam	0.09106	0.10021	0.10021	0.000	10.04671	60.00000	Averaged
208 1,1'-Biphenyl	1.13159	1.25246	1.25246	0.000	10.68111	60.00000	Averaged
207 Atrazine	0.04652	0.04998	0.04998	0.000	7.42614	60.00000	Averaged
77 Benzidine	0.30518	0.36606	0.36606	0.000	19.95179	60.00000	Averaged
90 3,3'-Dichlorobenzidine	0.26870	0.31267	0.31267	0.000	16.36283	60.00000	Averaged
102 1,4-Dioxane	0.41759	0.51403	0.51403	0.000	23.09704	60.00000	Averaged
103 Methyl methacrylate	0.20750	0.25772	0.25772	0.000	24.20033	60.00000	Averaged
104 Ethyl methacrylate	0.85622	1.03970	1.03970	0.000	21.42859	60.00000	Averaged
105 2-Picoline	1.37151	1.38665	1.38665	0.000	1.10401	60.00000	Averaged
106 N-Nitrosomethylethylamine	0.59363	0.61028	0.61028	0.000	2.80414	60.00000	Averaged
107 Methyl methanesulfonate	0.43779	0.47803	0.47803	0.000	9.19146	60.00000	Averaged
108 N-Nitrosodiethylamine	0.58762	0.59724	0.59724	0.000	1.63735	60.00000	Averaged
109 Ethyl Methanesulfonate	0.69655	0.86294	0.86294	0.000	23.88866	60.00000	Averaged
110 Pentachloroethane	0.29093	0.40525	0.40525	0.000	39.29786	60.00000	Averaged
111 N-Nitrosopyrrolidine	0.58368	0.62178	0.62178	0.000	6.52641	60.00000	Averaged
113 N-Nitrosomorpholine	0.48127	0.50335	0.50335	0.000	4.58865	60.00000	Averaged
114 o-Toluidine	1.83778	1.94019	1.94019	0.000	5.57261	60.00000	Averaged
115 N-Nitrosopiperidine	0.15881	0.15985	0.15985	0.000	0.65646	60.00000	Averaged
116 a,a-Dimethylphenethylamine	0.70536	0.69658	0.69658	0.000	-1.24498	60.00000	Averaged
118 2,6-Dichlorophenol	0.20017	0.21915	0.21915	0.000	9.48481	60.00000	Averaged
119 Hexachloropropene	61.35798	40.00000	0.13019	0.000	53.39495	60.00000	Linear
120 p-Phenylenediamine	0.23280	0.28787	0.28787	0.000	23.65760	60.00000	Averaged
121 N-Nitrosodi-n-butylamine	0.20854	0.21345	0.21345	0.000	2.35523	60.00000	Averaged
122 Safrrole	0.18358	0.22158	0.22158	0.000	20.69892	60.00000	Averaged
123 1,2,4,5-Tetrachlorobenzene	0.36842	0.40661	0.40661	0.000	10.36783	60.00000	Averaged
124 Isosafrole	0.35193	0.48553	0.48553	0.000	37.96055	60.00000	Averaged
125 1,4-Naphthoquinone	0.31478	0.34821	0.34821	0.000	10.62148	60.00000	Averaged
127 Pentachlorobenzene	0.32751	0.35416	0.35416	0.000	8.13618	60.00000	Averaged
128 1-Naphthylamine	0.88383	1.01889	1.01889	0.000	15.28099	60.00000	Averaged
129 2-Naphthylamine	0.93409	1.08794	1.08794	0.000	16.47002	60.00000	Averaged
131 5-Nitro-o-toluidine	0.27364	0.30859	0.30859	0.000	12.76973	60.00000	Averaged
136 1,3,5-Trinitrobenzene	53.76497	40.00000	0.15062	0.000	34.41243	60.00000	Linear
137 Phenacetin	0.27663	0.31639	0.31639	0.000	14.37247	60.00000	Averaged
138 Diallate	0.31999	0.29740	0.29740	0.000	-7.05885	60.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 16-FEB-2010 18:17
 Lab File ID: s4b1627.d Init. Cal. Date(s): 16-FEB-2010 17-FEB-2010
 Analysis Type: Init. Cal. Times: 10:08 01:31
 Lab Sample ID: WBN100120-08.1 Quant Type: ISTD
 Method: /chem/MSD4.i/s021610.b/MSD4-M8270C-AQA-021610a.m

COMPOUND	RRF / AMOUNT	RF40	CCAL	MIN	MAX	CURVE TYPE
RRF	%D	%DRIFT	%D	%DRIFT		
212 Cis Diallate	0.35497	0.44709	0.44709	0.000	25.95414	60.00000 Averaged
213 Trans Diallate	0.37646	0.34988	0.34988	0.000	-7.05885	60.00000 Averaged
140 4-Aminobiphenyl	0.49579	0.60632	0.60632	0.000	22.29253	60.00000 Averaged
141 Pentachloronitrobenzene	0.05299	0.05789	0.05789	0.000	9.24498	60.00000 Averaged
142 Pronamide	0.22113	0.23704	0.23704	0.000	7.19212	60.00000 Averaged
146 4-Nitroquinoline-1-oxide	0.01286	0.01618	0.01618	0.000	25.80205	60.00000 Averaged
147 Methapyrilene	0.32789	0.36710	0.36710	0.000	11.95792	60.00000 Averaged
148 Isodrin	0.09685	0.08628	0.08628	0.000	-10.91289	60.00000 Averaged
149 Aramite	0.05097	0.05422	0.05422	0.000	6.38207	60.00000 Averaged
150 Kepone	0.07421	0.07345	0.07345	0.000	-1.02400	60.00000 Averaged
151 p-(Dimethylamino)azobenzene	0.32064	0.31068	0.31068	0.000	-3.10568	60.00000 Averaged
152 Chlorobenzilate	0.29648	0.27475	0.27475	0.000	-7.33102	60.00000 Averaged
153 3,3'-Dimethylbenzidine	0.45577	0.50557	0.50557	0.000	10.92634	60.00000 Averaged
155 2-Acetylaminofluorene	0.27068	0.31597	0.31597	0.000	16.73267	60.00000 Averaged
157 7,12Dimethylbenz(a)anthracene	0.42890	0.41257	0.41257	0.000	-3.80710	60.00000 Averaged
158 3-Methylcholanthrene	0.37631	0.39843	0.39843	0.000	5.87919	60.00000 Averaged

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Data file : /chem/MSD4.i/s021610.b/s4b1627.d
Lab Smp Id: WBN100120-08.1 Client Smp ID: APICV
Inj Date : 16-FEB-2010 18:17
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |WBN100120-08.1|ICV|1|SVMF|1|APICV
Misc Info : |MSD8270|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s021610.b/MSD4-M8270C-AQA-021610a.m
Meth Date : 18-Feb-2010 11:14 jos00786 Quant Type: ISTD
Cal Date : 16-FEB-2010 12:21 Cal File: s4b1611.d
Als bottle: 23 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AP12.sub
Target Version: 3.50

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
* 10 1,4-Dichlorobenzene-d4	152	3.935	3.930	(1.000)	106876	40.0000	
* 29 Naphthalene-d8	136	4.807	4.802	(1.000)	411053	40.0000	
* 46 Acenaphthene-d10	164	6.059	6.059	(1.000)	216114	40.0000	
* 67 Phenanthrene-d10	188	7.054	7.048	(1.000)	329774	40.0000	
* 91 Chrysene-d12	240	8.755	8.754	(1.000)	299160	40.0000	
* 98 Perylene-d12	264	10.300	10.300	(1.000)	271759	40.0000	
209 Benzaldehyde	77	3.663	3.663	(0.931)	82195	40.0000	35.8
16 Acetophenone	105	4.187	4.187	(1.064)	133077	40.0000	41.1
189 Caprolactam	113	5.085	5.085	(1.058)	41192	40.0000	44.0
208 1,1'-Biphenyl	154	5.631	5.631	(0.929)	270674	40.0000	44.3
207 Atrazine	173	6.818	6.818	(0.967)	16481	40.0000	43.0
77 Benzidine	184	7.835	7.835	(0.895)	109512	40.0000	48.0
90 3,3'-Dichlorobenzidine	252	8.680	8.680	(0.991)	93538	40.0000	46.5
102 1,4-Dioxane	88	2.277	2.277	(0.579)	54938	40.0000	49.2
103 Methyl methacrylate	100	2.267	2.267	(0.576)	27544	40.0000	49.7
104 Ethyl methacrylate	69	2.636	2.636	(0.670)	111119	40.0000	48.6
105 2-Picoline	93	2.834	2.834	(0.720)	148200	40.0000	40.4
106 N-Nitrosomethylethylamine	88	2.876	2.876	(0.731)	65224	40.0000	41.1
107 Methyl methanesulfonate	80	3.032	3.032	(0.770)	51090	40.0000	43.7
108 N-Nitrosodiethylamine	102	3.267	3.267	(0.830)	63831	40.0000	40.6
109 Ethyl Methanesulfonate	79	3.422	3.422	(0.870)	92228	40.0000	49.6
110 Pentachloroethane	167	3.759	3.759	(0.955)	43312	40.0000	55.7
111 N-Nitrosopyrrolidine	100	4.181	4.181	(1.063)	66453	40.0000	42.6
113 N-Nitrosomorpholine	56	4.203	4.203	(1.068)	53796	40.0000	41.8
114 o-Toluidine	106	4.214	4.214	(1.071)	207360	40.0000	42.2
115 N-Nitrosopiperidine	114	4.417	4.417	(0.919)	65706	40.0000	40.3
116 a,a-Dimethylphenethylamine	58	4.674	4.674	(0.972)	286332	40.0000	39.5

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
118 2,6-Dichlorophenol	162	4.850	4.850	(1.009)	90083	40.0000	43.8
119 Hexachloropropene	213	4.877	4.877	(1.014)	53516	40.0000	61.4
120 p-Phenylenediamine	108	5.091	5.091	(1.059)	118330	40.0000	49.5
121 N-Nitrosodi-n-butylamine	84	5.048	5.048	(1.050)	87739	40.0000	40.9
122 Safrole	162	5.219	5.219	(1.086)	91083	40.0000	48.3
123 1,2,4,5-Tetrachlorobenzene	216	5.422	5.422	(0.895)	87875	40.0000	44.1
124 Isosafrole	162	5.588	5.588	(0.922)	104930	40.0000	55.2
125 1,4-Naphthoquinone	158	5.781	5.781	(0.954)	75254	40.0000	44.2
127 Pentachlorobenzene	250	6.166	6.166	(1.018)	76539	40.0000	43.2
128 1-Naphthylamine	143	6.251	6.251	(1.032)	220197	40.0000	46.1
129 2-Naphthylamine	143	6.305	6.305	(1.041)	235119	40.0000	46.6
131 5-Nitro-o-toluidine	152	6.428	6.428	(1.061)	66690	40.0000	45.1
136 1,3,5-Trinitrobenzene	75	6.642	6.642	(0.942)	49669	40.0000	53.8
137 Phenacetin	108	6.679	6.679	(0.947)	104338	40.0000	45.7(Q)
138 Diallate	86	6.663	6.663	(0.945)	98075	40.0000	37.2
212 Cis Diallate	86	6.727	6.727	(0.954)	22116	6.00000	7.6
213 Trans Diallate	86	6.663	6.663	(0.945)	98075	34.0000	31.6
140 4-Aminobiphenyl	169	6.909	6.909	(0.980)	199947	40.0000	48.9
141 Pentachloronitrobenzene	237	6.925	6.925	(0.982)	19092	40.0000	43.7(Q)
142 Pronamide	173	6.915	6.915	(0.980)	78169	40.0000	42.9
146 4-Nitroquinoline-1-oxide	101	7.524	7.524	(1.067)	5336	40.0000	50.3
147 Methapyrilene	58	7.535	7.535	(1.068)	121061	40.0000	44.8
148 Isodrin	193	7.696	7.696	(1.091)	28454	40.0000	35.6
149 Aramite	185	7.926	7.926	(1.124)	17881	40.0000	42.6
150 Kepone	272	8.364	8.364	(1.186)	24223	40.0000	39.6
151 p-(Dimethylamino)azobenzene	120	8.054	8.054	(0.920)	92944	40.0000	38.8
152 Chlorobenzilate	251	8.070	8.070	(0.922)	82193	40.0000	37.1
153 3,3'-Dimethylbenzidine	212	8.273	8.273	(0.945)	151245	40.0000	44.4
155 2-Acetylaminofluorene	181	8.460	8.460	(0.966)	94526	40.0000	46.7
157 7,12Dimethylbenz(a)anthracene	256	9.771	9.771	(0.949)	112120	40.0000	38.5
158 3-Methylcholanthrene	268	10.685	10.685	(1.037)	108277	40.0000	42.4

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/HSD4.i/s021610.b/s4b1627.d

Date: 16-FEB-2010 18:17

Client ID: APICV

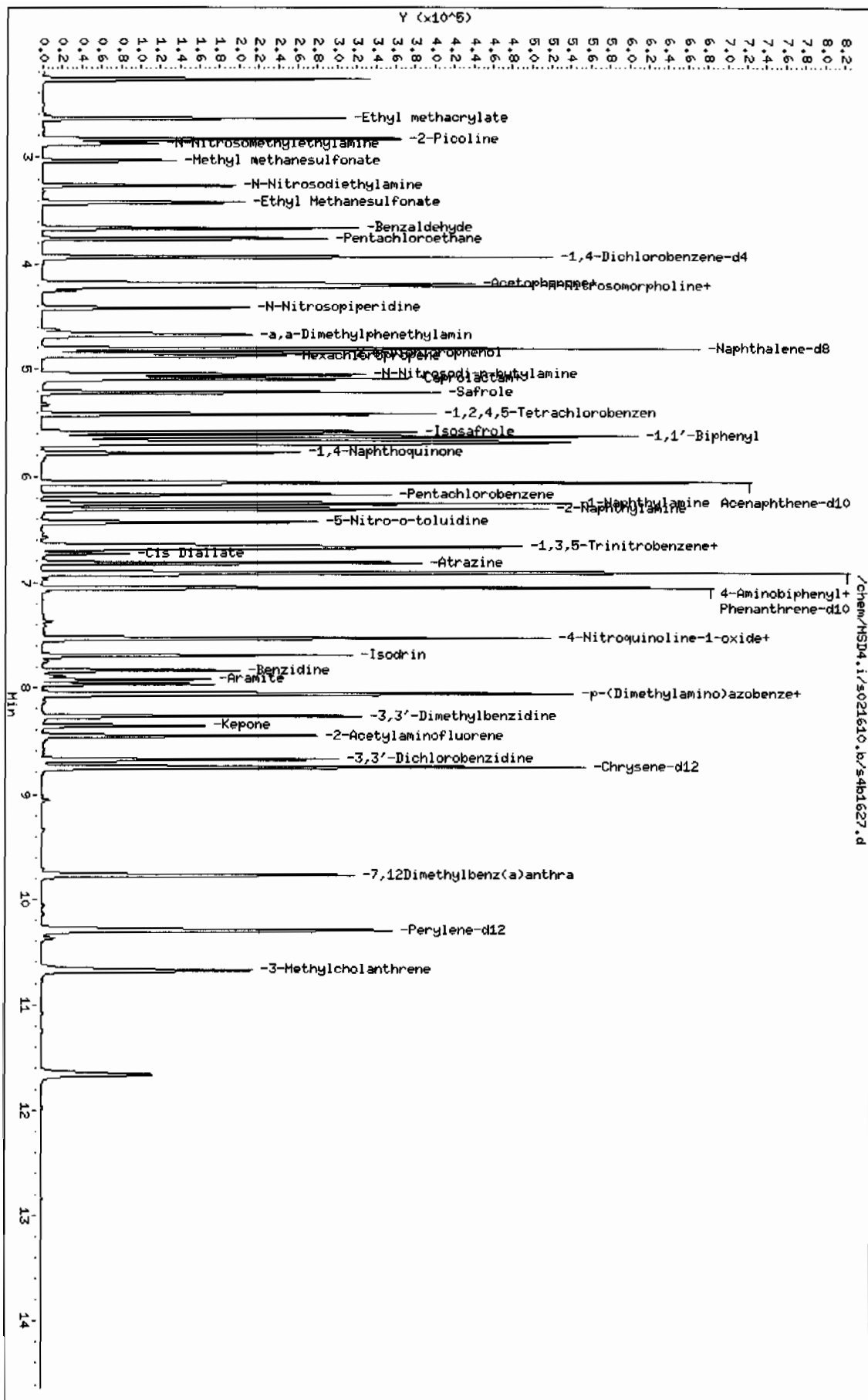
Sample Info: IMBN100120-08.11ICV111SHF11APICV

Column phase: J&W DB-SHS

Instrument: HSD4.i

Operator: JMB3

Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 17-FEB-2010 21:48
Lab File ID: s4b1713.d Init. Cal. Date(s): 16-FEB-2010 17-FEB-2010
Analysis Type: Init. Cal. Times: 10:08 20:54
Lab Sample ID: WBN100215-09.1 Quant Type: ISTD
Method: /chem/MSD4.i/s021710.b/MSD4-M8270C-AQA-021710.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
3 2-Fluorophenol	1.13979	1.16354	1.16354	0.000	2.08315	60.00000	Averaged
5 Phenol-d5	1.43191	1.43803	1.43803	0.000	0.42772	60.00000	Averaged
20 Nitrobenzene-d5	0.30717	0.30277	0.30277	0.000	-1.43237	60.00000	Averaged
39 2-Fluorobiphenyl	1.03281	1.12873	1.12873	0.000	9.28673	60.00000	Averaged
60 2,4,6-Tribromophenol	0.12510	0.14597	0.14597	0.000	16.68646	60.00000	Averaged
81 p-Terphenyl-d14	0.62529	0.72892	0.72892	0.000	16.57366	60.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.82083	0.78881	0.78881	0.000	-3.90123	60.00000	Averaged
2 Pyridine	1.14982	0.88430	0.88430	0.000	-23.09199	60.00000	Averaged
4 Aniline	0.56446	0.52873	0.52873	0.000	-6.32860	60.00000	Averaged
6 Phenol	1.45555	1.52658	1.52658	0.001	4.87942	20.00000	Averaged|ccc
7 bis(2-Chloroethyl) ether	0.85752	0.81241	0.81241	0.000	-5.26035	60.00000	Averaged
8 2-Chlorophenol	1.19326	1.21932	1.21932	0.000	2.18439	60.00000	Averaged
203 n-Decane	1.14554	1.08611	1.08611	0.000	-5.18836	60.00000	Averaged
9 1,3-Dichlorobenzene	1.18927	1.28282	1.28282	0.000	7.86610	60.00000	Averaged
11 1,4-Dichlorobenzene	1.19193	1.26323	1.26323	0.001	5.98137	20.00000	Averaged|ccc
13 1,2-Dichlorobenzene	1.08549	1.03731	1.03731	0.000	-4.43915	60.00000	Averaged
14 bis(2-Chloroisopropyl)ether	1.60426	1.59012	1.59012	0.000	-0.88110	60.00000	Averaged
12 Benzyl alcohol	0.66113	0.73587	0.73587	0.000	11.30573	60.00000	Averaged
15 o-Cresol	0.87618	0.81118	0.81118	0.000	-7.41868	60.00000	Averaged
18 m,p-Cresols	1.19261	1.23954	1.23954	0.000	3.93551	60.00000	Averaged
17 N-Nitrosodipropylamine	0.81552	0.83536	0.83536	0.050	2.43285	60.00000	Averaged|spcc
19 Hexachloroethane	0.44754	0.46214	0.46214	0.000	3.26215	60.00000	Averaged
21 Nitrobenzene	0.29707	0.28641	0.28641	0.000	-3.58877	60.00000	Averaged
22 Isophorone	0.61948	0.56001	0.56001	0.000	-9.59934	60.00000	Averaged
23 2-Nitrophenol	0.16102	0.15701	0.15701	0.001	-2.48964	20.00000	Averaged|ccc
24 2,4-Dimethylphenol	0.26181	0.25204	0.25204	0.000	-3.73203	60.00000	Averaged
25 bis(2-Chloroethoxy)methane	0.37080	0.34715	0.34715	0.000	-6.37678	60.00000	Averaged
26 2,4-Dichlorophenol	0.22734	0.22713	0.22713	0.001	-0.09007	20.00000	Averaged|ccc
27 Benzoic acid	37.94583	40.00000	0.15535	0.000	-5.13541	60.00000	Linear
28 1,2,4-Trichlorobenzene	0.23172	0.22972	0.22972	0.000	-0.86168	60.00000	Averaged
30 Naphthalene	0.91608	0.82397	0.82397	0.000	-10.05428	60.00000	Averaged
204 alpha-Terpineol	0.19469	0.17119	0.17119	0.000	-12.07093	60.00000	Averaged
31 4-Chloroaniline	0.41124	0.39701	0.39701	0.000	-3.45985	60.00000	Averaged
32 Hexachlorobutadiene	0.11515	0.11711	0.11711	0.001	1.70874	20.00000	Averaged|ccc
33 4-Chloro-3-methylphenol	0.23051	0.22779	0.22779	0.001	-1.17662	20.00000	Averaged|ccc
34 2-Methylnaphthalene	0.53694	0.54406	0.54406	0.000	1.32538	60.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 17-FEB-2010 21:48
Lab File ID: s4b1713.d Init. Cal. Date(s): 16-FEB-2010 17-FEB-2010
Analysis Type: Init. Cal. Times: 10:08 20:54
Lab Sample ID: WBN100215-09.1 Quant Type: ISTD
Method: /chem/MSD4.i/s021710.b/MSD4-M8270C-AQA-021710.m

COMPOUND	RRF / AMOUNT	RF40	CCAL	MIN	MAX	CURVE TYPE
RRF	%D	%DRIFT	%D	%DRIFT		
35 1-Methylnaphthalene	0.52211	0.51488	0.51488|0.000	-1.38407	60.00000	Averaged
36 Hexachlorocyclopentadiene	0.18735	0.16290	0.16290|0.050	-13.05095	60.00000	Averaged|spcc
205 2,3-Dichloroaniline	0.52378	0.54850	0.54850|0.000	4.72021	60.00000	Averaged
37 2,4,6-Trichlorophenol	0.25903	0.28741	0.28741|0.001	10.96003	20.00000	Averaged|ccc
38 2,4,5-Trichlorophenol	0.29955	0.33654	0.33654|0.000	12.34581	60.00000	Averaged
40 2-Chloronaphthalene	0.96029	0.98817	0.98817|0.000	2.90300	60.00000	Averaged
42 o-Nitroaniline	0.26586	0.26863	0.26863|0.000	1.04202	60.00000	Averaged
41 m-Nitroaniline	41.64852	40.00000	0.26187|0.000	4.12129	60.00000	Linear
43 Dimethylphthalate	1.05863	1.09564	1.09564|0.000	3.49663	60.00000	Averaged
44 2,6-Dinitrotoluene	0.25249	0.26596	0.26596|0.000	5.33622	60.00000	Averaged
50 2,4-Dinitrotoluene	0.32954	0.33987	0.33987|0.000	3.13482	60.00000	Averaged
45 Acenaphthylene	1.46134	1.55694	1.55694|0.000	6.54197	60.00000	Averaged
47 Acenaphthene	1.01927	0.89714	0.89714|0.001	-11.98212	20.00000	Averaged|ccc
48 2,4-Dinitrophenol	0.09585	0.10845	0.10845|0.050	13.14781	60.00000	Averaged|spcc
49 Dibenzofuran	1.26028	1.30864	1.30864|0.000	3.83724	60.00000	Averaged
51 Diethylphthalate	0.99645	1.02316	1.02316|0.000	2.68098	60.00000	Averaged
52 4-Nitrophenol	40.74265	40.00000	0.19621|0.050	1.85662	60.00000	Linear|spcc
53 Fluorene	1.11013	1.04079	1.04079|0.000	-6.24648	60.00000	Averaged
54 4-Chlorophenylphenylether	0.47469	0.46349	0.46349|0.000	-2.36087	60.00000	Averaged
55 2-Methyl-4,6-dinitrophenol	0.10836	0.14871	0.14871|0.000	37.23639	60.00000	Averaged
56 p-Nitroaniline	0.19331	0.21283	0.21283|0.000	10.09570	60.00000	Averaged
133 Diphenylamine	0.52934	0.58081	0.58081|0.001	9.72371	20.00000	Averaged|ccc
58 1,2-Diphenylhydrazine	0.69021	0.74431	0.74431|0.000	7.83834	60.00000	Averaged
61 4-Bromophenylphenylether	0.17497	0.17863	0.17863|0.000	2.09074	60.00000	Averaged
63 Hexachlorobenzene	0.18879	0.20071	0.20071|0.000	6.31523	60.00000	Averaged
65 Pentachlorophenol	0.09256	0.10369	0.10369|0.001	12.02595	20.00000	Averaged|ccc
206 n-Octadecane	0.36714	0.41235	0.41235|0.000	12.31510	60.00000	Averaged
68 Phenanthrene	0.98692	0.95378	0.95378|0.000	-3.35791	60.00000	Averaged
69 Anthracene	1.00244	0.93251	0.93251|0.000	-6.97608	60.00000	Averaged
72 Di-n-butylphthalate	1.08225	1.11169	1.11169|0.000	2.72014	60.00000	Averaged
76 Fluoranthene	0.92422	0.90886	0.90886|0.001	-1.66128	20.00000	Averaged|ccc
79 Pyrene	1.09018	1.08436	1.08436|0.000	-0.53368	60.00000	Averaged
85 Butylbenzylphthalate	0.46266	0.54102	0.54102|0.000	16.93870	60.00000	Averaged
89 Benzo(a)anthracene	0.93727	0.91509	0.91509|0.000	-2.36696	60.00000	Averaged
92 Chrysene	0.94297	0.91305	0.91305|0.000	-3.17305	60.00000	Averaged
93 bis(2-Ethylhexyl)phthalate	0.66314	0.72632	0.72632 0.000	9.52784	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 17-FEB-2010 21:48
Lab File ID: s4b1713.d Init. Cal. Date(s): 16-FEB-2010 17-FEB-2010
Analysis Type: Init. Cal. Times: 10:08 20:54
Lab Sample ID: WBN100215-09.1 Quant Type: ISTD
Method: /chem/MSD4.i/s021710.b/MSD4-M8270C-AQA-021710.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Di-n-octylphthalate	1.19630	1.25643	1.25643	0.001	5.02632	20.00000	Averaged|ccc
95 Benzo(b)fluoranthene	0.94362	0.96796	0.96796	0.000	2.57881	60.00000	Averaged|
96 Benzo(k)fluoranthene	0.95478	0.90606	0.90606	0.000	-5.10258	60.00000	Averaged|
97 Benzo(a)pyrene	0.80648	0.80179	0.80179	0.001	-0.58245	20.00000	Averaged|ccc
99 Indeno(1,2,3-cd)pyrene	0.72396	0.72051	0.72051	0.000	-0.47613	60.00000	Averaged|
100 Dibenzo(a,h)anthracene	0.59590	0.59910	0.59910	0.000	0.53658	60.00000	Averaged|
101 Benzo(ghi)perylene	0.59674	0.59204	0.59204	0.000	-0.78734	60.00000	Averaged|
126 m-Dinitrobenzene	0.19719	0.20810	0.20810	0.000	5.53237	60.00000	Averaged|
130 2,3,4,6-Tetrachlorophenol	0.21610	0.22761	0.22761	0.000	5.32889	60.00000	Averaged|
143 Dinoseb	0.14124	0.15542	0.15542	0.000	10.03842	60.00000	Averaged|
173 Carbazole	47.10001	40.00000	0.82268	0.000	17.75002	60.00000	Linear|
184 p-Benzoquinone	29.47202	40.00000	0.04643	0.000	-26.31994	60.00000	Linear|
192 Methoxychlor	0.44246	0.48849	0.48849	0.000	10.40415	60.00000	Averaged|
211 p-Toluidine	1.35079	1.08032	1.08032	0.000	-20.02280	60.00000	Averaged|
210 m-Toluidine	1.67187	1.73869	1.73869	0.000	3.99633	60.00000	Averaged|
215 2-Ethoxyethanol	0.59723	0.63389	0.63389	0.000	6.13775	60.00000	Averaged|
179 Dibenzo(a,e)pyrene	0.27697	0.19438	0.19438	0.000	-29.82184	60.00000	Averaged|
26 Phthalic anhydride	0.06521	0.10039	0.10039	0.000	53.94488	60.00000	Averaged|
214 1,4-Dinitrobenzene	0.20553	0.20806	0.20806	0.000	1.23100	60.00000	Averaged|
216 Methylenebis(2-chloroanilin	46.03313	40.00000	0.14158	0.000	15.08283	60.00000	Linear|
M 222 Trichlorophenols	0.27408	0.31198	0.31198	0.000	13.82468	60.00000	Averaged|
M 223 Tetrachlorophenols	0.21610	0.22761	0.22761	0.000	5.32889	60.00000	Averaged|
M 224 Benzo(b,k)fluoranthene	0.94920	0.93701	0.93701	0.000	-1.28446	60.00000	Averaged

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Data file : /chem/MSD4.i/s021710.b/s4b1713.d
Lab Smp Id: WBN100215-09.1 Client Smp ID: MEGAICV
Inj Date : 17-FEB-2010 21:48
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |WBN100215-09.1|ICV|1|SVMF|1|MEGAICV
Misc Info : |MSD8270|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s021710.b/MSD4-M8270C-AQA-021710.m
Meth Date : 18-Feb-2010 11:03 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 19:07 Cal File: s4b1707.d
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: MEGA.sub
Target Version: 3.50

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
							(ng/ul)	(ng/ul)
* 10 1,4-Dichlorobenzene-d4		152	3.935	3.935	(1.000)	132577	40.0000	
* 29 Naphthalene-d8		136	4.807	4.802	(1.000)	535262	40.0000	
* 46 Acenaphthene-d10		164	6.059	6.059	(1.000)	269635	40.0000	
* 67 Phenanthrene-d10		188	7.054	7.048	(1.000)	408520	40.0000	
* 91 Chrysene-d12		240	8.755	8.749	(1.000)	356607	40.0000	
* 98 Perylene-d12		264	10.300	10.295	(1.000)	333947	40.0000	
\$ 3 2-Fluorophenol		112	3.117	3.117	(0.792)	154258	40.0000	40.8
\$ 5 Phenol-d5		99	3.647	3.647	(0.927)	190650	40.0000	40.2
\$ 20 Nitrobenzene-d5		82	4.304	4.304	(0.895)	162061	40.0000	39.4
\$ 39 2-Fluorobiphenyl		172	5.551	5.551	(0.916)	304345	40.0000	43.7
\$ 60 2,4,6-Tribromophenol		329	6.599	6.599	(1.089)	39359	40.0000	46.7
\$ 81 p-Terphenyl-d14		244	7.974	7.974	(0.911)	259938	40.0000	46.6
1 N-Methyl-N-nitrosomethylamine		74	2.427	2.427	(0.617)	104578	40.0000	38.4
2 Pyridine		79	2.454	2.454	(0.624)	117238	40.0000	30.8
4 Aniline		66	3.721	3.721	(0.946)	70098	40.0000	37.5
6 Phenol		94	3.657	3.657	(0.929)	202389	40.0000	42.0
7 bis(2-Chloroethyl) ether		63	3.737	3.737	(0.950)	107707	40.0000	37.9
8 2-Chlorophenol		128	3.802	3.802	(0.966)	161654	40.0000	40.9
203 n-Decane		43	3.780	3.780	(0.961)	143993	40.0000	37.9
9 1,3-Dichlorobenzene		146	3.903	3.903	(0.992)	170072	40.0000	43.1
11 1,4-Dichlorobenzene		146	3.946	3.946	(1.003)	167475	40.0000	42.4
13 1,2-Dichlorobenzene		146	4.053	4.053	(1.030)	137523	40.0000	38.2
14 bis(2-Chloroisopropyl) ether		45	4.080	4.080	(1.037)	210814	40.0000	39.6
12 Benzyl alcohol		108	4.005	4.005	(1.018)	97560	40.0000	44.5
15 o-Cresol		107	4.053	4.053	(1.030)	107544	40.0000	37.0
18 m,p-Cresols		107	4.155	4.155	(1.056)	164335	40.0000	41.6
17 N-Nitrosodipropylamine		70	4.176	4.176	(1.061)	110750	40.0000	41.0

Compounds	QUANT SIG			RESPONSE	AMOUNTS	
	MASS	RT	EXP RT REL RT		CAL-AMT (ng/ul)	ON-COL (ng/ul)
19 Hexachloroethane	117	4.283	4.283 (1.088)	61269	40.0000	41.3
21 Nitrobenzene	77	4.315	4.315 (0.898)	153303	40.0000	38.6
22 Isophorone	82	4.470	4.470 (0.930)	299754	40.0000	36.2
23 2-Nitrophenol	139	4.529	4.529 (0.942)	84044	40.0000	39.0
24 2,4-Dimethylphenol	122	4.518	4.518 (0.940)	134908	40.0000	38.5
25 bis(2-Chloroethoxy)methane	93	4.588	4.588 (0.954)	185817	40.0000	37.4
26 2,4-Dichlorophenol	162	4.695	4.695 (0.977)	121575	40.0000	40.0
27 Benzoic acid	105	4.583	4.583 (0.953)	83153	40.0000	37.9
28 1,2,4-Trichlorobenzene	180	4.754	4.754 (0.989)	122961	40.0000	39.6
30 Naphthalene	128	4.823	4.823 (1.003)	441040	40.0000	36.0
204 alpha-Terpinol	59	4.802	4.802 (0.999)	91631	40.0000	35.2
31 4-Chloroaniline	127	4.839	4.839 (1.007)	212503	40.0000	38.6
32 Hexachlorobutadiene	225	4.882	4.882 (1.016)	62686	40.0000	40.7
33 4-Chloro-3-methylphenol	107	5.150	5.150 (1.071)	121930	40.0000	39.5
34 2-Methylnaphthalene	142	5.305	5.305 (1.103)	291214	40.0000	40.5
35 1-Methylnaphthalene	142	5.380	5.380 (1.119)	275596	40.0000	39.4
36 Hexachlorocyclopentadiene	237	5.406	5.406 (0.892)	43924	40.0000	34.8
205 2,3-Dichloroaniline	161	5.503	5.503 (0.908)	147895	40.0000	41.9
37 2,4,6-Trichlorophenol	196	5.492	5.492 (0.906)	77497	40.0000	44.4
38 2,4,5-Trichlorophenol	196	5.519	5.519 (0.911)	90742	40.0000	44.9
40 2-Chloronaphthalene	162	5.658	5.658 (0.934)	266445	40.0000	41.2
42 o-Nitroaniline	65	5.716	5.716 (0.944)	72432	40.0000	40.4
41 m-Nitroaniline	138	6.011	6.011 (0.992)	70610	40.0000	41.6
43 Dimethylphthalate	163	5.829	5.829 (0.962)	295424	40.0000	41.4
44 2,6-Dinitrotoluene	165	5.882	5.882 (0.971)	71712	40.0000	42.1
50 2,4-Dinitrotoluene	165	6.171	6.171 (1.019)	91642	40.0000	41.2
45 Acenaphthylene	152	5.968	5.968 (0.985)	419805	40.0000	42.6
47 Acenaphthene	154	6.086	6.086 (1.004)	241900	40.0000	35.2
48 2,4-Dinitrophenol	184	6.080	6.080 (1.004)	29242	40.0000	45.2
49 Dibenzofuran	168	6.203	6.203 (1.024)	352856	40.0000	41.5
51 Diethylphthalate	149	6.310	6.310 (1.041)	275880	40.0000	41.1
52 4-Nitrophenol	139	6.096	6.096 (1.006)	52904	40.0000	40.7
53 Fluorene	166	6.439	6.439 (1.063)	280633	40.0000	37.5
54 4-Chlorophenylphenylether	204	6.412	6.412 (1.058)	124972	40.0000	39.0
55 2-Methyl-4,6-dinitrophenol	198	6.449	6.449 (0.914)	60752	40.0000	54.9
56 p-Nitroaniline	138	6.439	6.439 (1.063)	57386	40.0000	44.0
133 Diphenylamine	169	6.492	6.492 (0.920)	237272	40.0000	43.9
58 1,2-Diphenylhydrazine	77	6.524	6.524 (0.925)	304067	40.0000	43.1
61 4-Bromophenylphenylether	248	6.743	6.743 (0.956)	72972	40.0000	40.8
63 Hexachlorobenzene	284	6.797	6.797 (0.964)	81996	40.0000	42.5
65 Pentachlorophenol	266	6.915	6.915 (0.980)	42358	40.0000	44.8
206 n-Octadecane	57	6.893	6.893 (0.977)	168454	40.0000	44.9
68 Phenanthrene	178	7.070	7.070 (1.002)	389638	40.0000	38.6
69 Anthracene	178	7.102	7.102 (1.007)	380949	40.0000	37.2
72 Di-n-butylphthalate	149	7.337	7.337 (1.040)	454146	40.0000	41.1
76 Fluoranthene	202	7.786	7.786 (1.104)	371288	40.0000	39.3
79 Pyrene	202	7.925	7.925 (0.905)	386692	40.0000	39.8

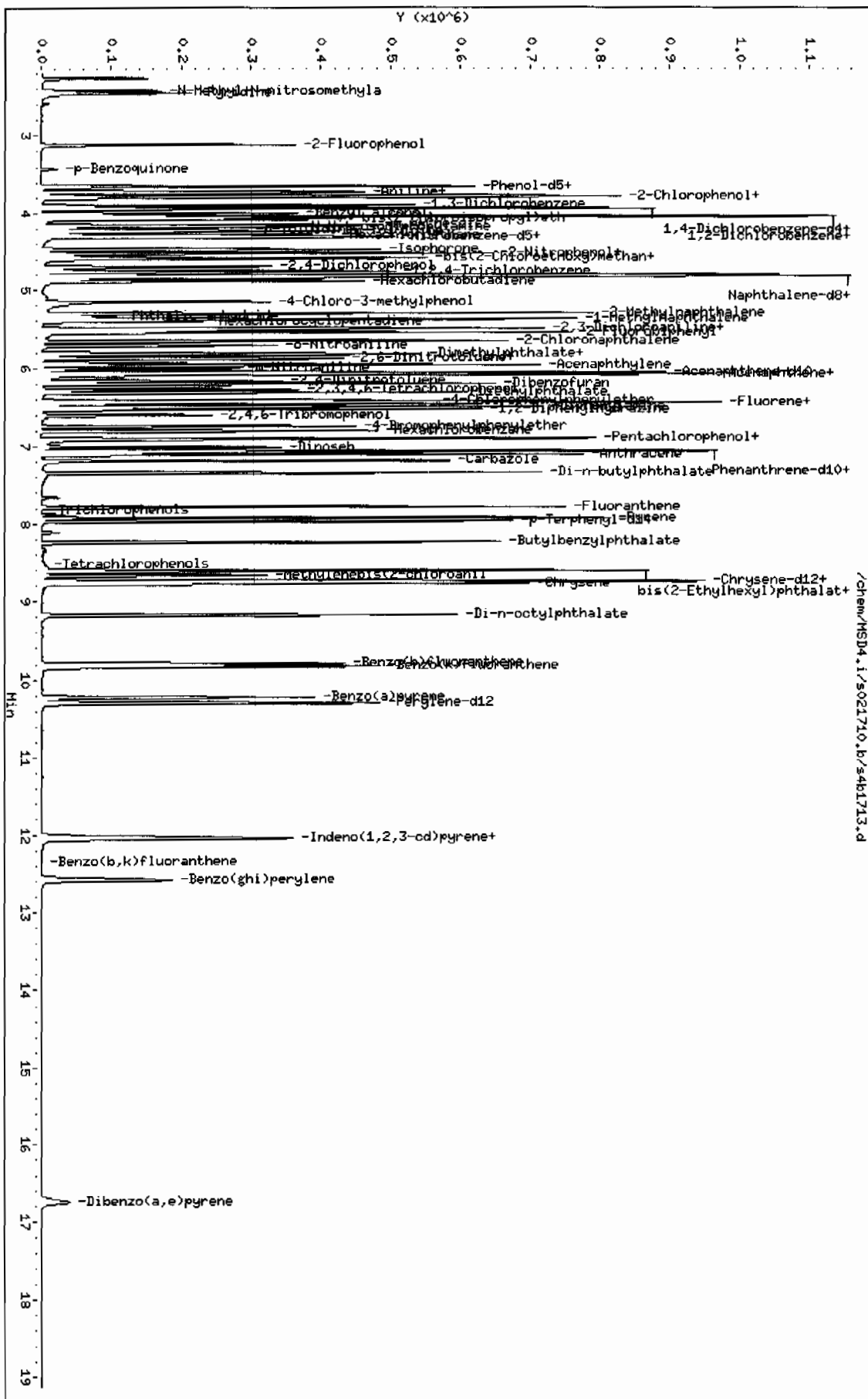
Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====			=====	=====	=====	=====	=====
85 Butylbenzylphthalate	149	8.246	8.246	(0.942)	192933	40.0000	46.8	
89 Benzo (a)anthracene	228	8.744	8.744	(0.999)	326327	40.0000	39.0	
92 Chrysene	228	8.776	8.776	(1.002)	325601	40.0000	38.7	
93 bis (2-Ethylhexyl)phthalate	149	8.615	8.615	(0.984)	259011	40.0000	43.8	
94 Di-n-octylphthalate	149	9.177	9.177	(0.891)	419582	40.0000	42.0	
95 Benzo (b) fluoranthene	252	9.803	9.803	(0.952)	323246	40.0000	41.0 (H)	
96 Benzo (k) fluoranthene	252	9.835	9.835	(0.955)	302576	40.0000	38.0	
97 Benzo (a)pyrene	252	10.225	10.225	(0.993)	267754	40.0000	39.8	
99 Indeno (1,2,3-cd)pyrene	276	12.044	12.044	(1.169)	240612	40.0000	39.8	
100 Dibenzo (a,h)anthracene	278	12.055	12.055	(1.170)	200068	40.0000	40.2	
101 Benzo (ghi)perylene	276	12.584	12.584	(1.222)	197711	40.0000	39.7	
126 m-Dinitrobenzene	168	5.872	5.872	(0.969)	56111	40.0000	42.2	
130 2,3,4,6-Tetrachlorophenol	232	6.273	6.273	(1.035)	61372	40.0000	42.1	
143 Dinoseb	211	7.005	7.005	(0.993)	63492	40.0000	44.0	
173 Carbazole	167	7.187	7.187	(1.019)	336080	40.0000	47.1	
184 p-Benzoquinone	54	3.427	3.427	(0.871)	6156	40.0000	29.5	
192 Methoxychlor	227	8.605	8.605	(0.983)	174200	40.0000	44.2	
211 p-Toluidine	106	4.214	4.214	(1.071)	143226	40.0000	32.0	
210 m-Toluidine	106	4.235	4.235	(1.076)	230510	40.0000	41.6	
215 2-Ethoxyethanol	59	2.267	2.267	(0.576)	84039	40.0000	42.4	
179 Dibenzo (a,e)pyrene	302	16.751	16.751	(1.626)	64911	40.0000	28.1	
26 Phthalic anhydride	104	5.342	5.342	(1.111)	53737	40.0000	61.6	
214 1,4-Dinitrobenzene	75	5.813	5.813	(0.959)	56101	40.0000	40.5	
216 Methylenebis (2-chloroaniline)	231	8.674	8.674	(0.991)	50490	40.0000	46.0	
M 222 Trichlorophenols	196				168239	80.0000	91.0	
M 223 Tetrachlorophenols	232				61372	40.0000	42.1	
M 224 Benzo (b,k) fluoranthene	252				625822	80.0000	79.0	

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: /chem/MSD4.i/s021710.b/s4b1713.d
 Date : 17-FEB-2010 21:48
 Client ID: MEGACIV
 Sample Info: IABN100215-09.11.CIV.11.SVNF.11.MEGACIV
 Column phase: 3M DB-SMS

Instrument: MSD4.i
 Operator: JHB3
 Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 20-FEB-2010 15:00
Lab File ID: s4b2013.d Init. Cal. Date(s): 16-FEB-2010 17-FEB-2010
Analysis Type: Init. Cal. Times: 10:08 20:54
Lab Sample ID: WBN100215-09.4 Quant Type: ISTD
Method: /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m

COMPOUND	RRF / AMOUNT	REF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
3 2-Fluorophenol	1.13979	1.11922	1.11922	0.000	-1.80475	60.00000	Averaged
5 Phenol-d5	1.43191	1.46493	1.46493	0.000	2.30615	60.00000	Averaged
20 Nitrobenzene-d5	0.30717	0.30363	0.30363	0.000	-1.15106	60.00000	Averaged
39 2-Fluorobiphenyl	1.03281	1.02985	1.02985	0.000	-0.28686	60.00000	Averaged
60 2,4,6-Tribromophenol	0.12510	0.12859	0.12859	0.000	2.79375	60.00000	Averaged
81 p-Terphenyl-d14	0.62529	0.62986	0.62986	0.000	0.73131	60.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.82083	0.80730	0.80730	0.000	-1.64801	60.00000	Averaged
2 Pyridine	1.14982	1.11331	1.11331	0.000	-3.17496	60.00000	Averaged
4 Aniline	0.56446	0.58121	0.58121	0.000	2.96779	60.00000	Averaged
6 Phenol	1.45555	1.51915	1.51915	0.001	4.36911	20.00000	Averaged|ccc
7 bis(2-Chloroethyl) ether	0.85752	0.90630	0.90630	0.000	5.68906	60.00000	Averaged
8 2-Chlorophenol	1.19326	1.20235	1.20235	0.000	0.76218	60.00000	Averaged
203 n-Decane	1.14554	1.18029	1.18029	0.000	3.03344	60.00000	Averaged
9 1,3-Dichlorobenzene	1.18927	1.23014	1.23014	0.000	3.43673	60.00000	Averaged
11 1,4-Dichlorobenzene	1.19193	1.25233	1.25233	0.001	5.06675	20.00000	Averaged|ccc
13 1,2-Dichlorobenzene	1.08549	1.10694	1.10694	0.000	1.97548	60.00000	Averaged
14 bis(2-Chloroisopropyl) ether	1.60426	1.72288	1.72288	0.000	7.39429	60.00000	Averaged
12 Benzyl alcohol	0.66113	0.76651	0.76651	0.000	15.93903	60.00000	Averaged
15 o-Cresol	0.87618	0.85725	0.85725	0.000	-2.16028	60.00000	Averaged
18 m,p-Cresols	1.19261	1.22596	1.22596	0.000	2.79630	60.00000	Averaged
17 N-Nitrosodipropylamine	0.81552	0.89960	0.89960	0.050	10.30972	60.00000	Averaged|spcc
19 Hexachloroethane	0.44754	0.48120	0.48120	0.000	7.52136	60.00000	Averaged
21 Nitrobenzene	0.29707	0.29742	0.29742	0.000	0.11966	60.00000	Averaged
22 Isophorone	0.61948	0.58823	0.58823	0.000	-5.04446	60.00000	Averaged
23 2-Nitrophenol	0.16102	0.14298	0.14298	0.001	-11.20803	20.00000	Averaged|ccc
24 2,4-Dimethylphenol	0.26181	0.27746	0.27746	0.000	5.97643	60.00000	Averaged
25 bis(2-Chloroethoxy)methane	0.37080	0.35924	0.35924	0.000	-3.11624	60.00000	Averaged
26 2,4-Dichlorophenol	0.22734	0.21287	0.21287	0.001	-6.36301	20.00000	Averaged|ccc
27 Benzoic acid	41.43355	40.00000	0.17708	0.000	3.58387	60.00000	Linear
28 1,2,4-Trichlorobenzene	0.23172	0.22347	0.22347	0.000	-3.56065	60.00000	Averaged
30 Naphthalene	0.91608	0.84703	0.84703	0.000	-7.53732	60.00000	Averaged
204 alpha-Terpineol	0.19469	0.19343	0.19343	0.000	-0.64622	60.00000	Averaged
31 4-Chloroaniline	0.41124	0.42059	0.42059	0.000	2.27472	60.00000	Averaged
32 Hexachlorobutadiene	0.11515	0.11287	0.11287	0.001	-1.97450	20.00000	Averaged|ccc
33 4-Chloro-3-methylphenol	0.23051	0.23044	0.23044	0.001	-0.03076	20.00000	Averaged|ccc
34 2-Methylnaphthalene	0.53694	0.51350	0.51350	0.000	-4.36581	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 20-FEB-2010 15:00
Lab File ID: s4b2013.d Init. Cal. Date(s): 16-FEB-2010 17-FEB-2010
Analysis Type: Init. Cal. Times: 10:08 20:54
Lab Sample ID: WBN100215-09.4 Quant Type: ISTD
Method: /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
35 1-Methylnaphthalene	0.52211	0.50582	0.50582	0.000	-3.11873	60.00000	Averaged
36 Hexachlorocyclopentadiene	0.18735	0.16485	0.16485	0.050	-12.00942	60.00000	Averaged|spcc
205 2,3-Dichloroaniline	0.52378	0.51688	0.51688	0.000	-1.31695	60.00000	Averaged
37 2,4,6-Trichlorophenol	0.25903	0.29169	0.29169	0.001	12.61008	20.00000	Averaged|ccc
38 2,4,5-Trichlorophenol	0.29955	0.29916	0.29916	0.000	-0.13087	60.00000	Averaged
40 2-Chloronaphthalene	0.96029	0.92618	0.92618	0.000	-3.55269	60.00000	Averaged
42 o-Nitroaniline	0.26586	0.28050	0.28050	0.000	5.50743	60.00000	Averaged
41 m-Nitroaniline	39.78663	40.00000	0.24926	0.000	-0.53342	60.00000	Linear
43 Dimethylphthalate	1.05863	1.07070	1.07070	0.000	1.14082	60.00000	Averaged
44 2,6-Dinitrotoluene	0.25249	0.25899	0.25899	0.000	2.57660	60.00000	Averaged
50 2,4-Dinitrotoluene	0.32954	0.32025	0.32025	0.000	-2.82016	60.00000	Averaged
45 Acenaphthylene	1.46134	1.46084	1.46084	0.000	-0.03409	60.00000	Averaged
47 Acenaphthene	1.01927	0.91833	0.91833	0.001	-9.90265	20.00000	Averaged|ccc
48 2,4-Dinitrophenol	0.09585	0.10223	0.10223	0.050	6.65533	60.00000	Averaged|spcc
49 Dibenzofuran	1.26028	1.24523	1.24523	0.000	-1.19455	60.00000	Averaged
51 Diethylphthalate	0.99645	1.01800	1.01800	0.000	2.16270	60.00000	Averaged
52 4-Nitrophenol	42.72379	40.00000	0.20759	0.050	6.80948	60.00000	Linear|spcc
53 Fluorene	1.11013	1.06254	1.06254	0.000	-4.28674	60.00000	Averaged
54 4-Chlorophenylphenylether	0.47469	0.45383	0.45383	0.000	-4.39601	60.00000	Averaged
55 2-Methyl-4,6-dinitrophenol	0.10836	0.10645	0.10645	0.000	-1.76795	60.00000	Averaged
56 p-Nitroaniline	0.19331	0.19302	0.19302	0.000	-0.15315	60.00000	Averaged
133 Diphenylamine	0.52934	0.54204	0.54204	0.001	2.40042	20.00000	Averaged|ccc
58 1,2-Diphenylhydrazine	0.69021	0.74580	0.74580	0.000	8.05380	60.00000	Averaged
61 4-Bromophenylphenylether	0.17497	0.17005	0.17005	0.000	-2.80887	60.00000	Averaged
63 Hexachlorobenzene	0.18879	0.19024	0.19024	0.000	0.76585	60.00000	Averaged
65 Pentachlorophenol	0.09256	0.10142	0.10142	0.001	9.57528	20.00000	Averaged|ccc
206 n-Octadecane	0.36714	0.39285	0.39285	0.000	7.00386	60.00000	Averaged
68 Phenanthrene	0.98692	0.95730	0.95730	0.000	-3.00117	60.00000	Averaged
69 Anthracene	1.00244	0.96144	0.96144	0.000	-4.09000	60.00000	Averaged
72 Di-n-butylphthalate	1.08225	1.07918	1.07918	0.000	-0.28339	60.00000	Averaged
76 Fluoranthene	0.92422	0.90224	0.90224	0.001	-2.37811	20.00000	Averaged|ccc
79 Pyrene	1.09018	1.09112	1.09112	0.000	0.08608	60.00000	Averaged
85 Butylbenzylphthalate	0.46266	0.46375	0.46375	0.000	0.23534	60.00000	Averaged
89 Benzo(a)anthracene	0.93727	0.92906	0.92906	0.000	-0.87581	60.00000	Averaged
92 Chrysene	0.94297	0.90221	0.90221	0.000	-4.32293	60.00000	Averaged
93 bis(2-Ethylhexyl)phthalate	0.66314	0.74339	0.74339	0.000	12.10188	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 20-FEB-2010 15:00
Lab File ID: s4b2013.d Init. Cal. Date(s): 16-FEB-2010 17-FEB-2010
Analysis Type: Init. Cal. Times: 10:08 20:54
Lab Sample ID: WBN100215-09.4 Quant Type: ISTD
Method: /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Di-n-octylphthalate	1.19630	1.39995	1.39995	0.001	17.02272	20.00000	Averaged
95 Benzo(b)fluoranthene	0.94362	0.95284	0.95284	0.000	0.97645	60.00000	Averaged
96 Benzo(k)fluoranthene	0.95478	0.97898	0.97898	0.000	2.53438	60.00000	Averaged
97 Benzo(a)pyrene	0.80648	0.83392	0.83392	0.001	3.40263	20.00000	Averaged
99 Indeno(1,2,3-cd)pyrene	0.72396	0.78345	0.78345	0.000	8.21813	60.00000	Averaged
100 Dibenzo(a,h)anthracene	0.59590	0.66178	0.66178	0.000	11.05462	60.00000	Averaged
101 Benzo(ghi)perylene	0.59674	0.63872	0.63872	0.000	7.03389	60.00000	Averaged
126 m-Dinitrobenzene	0.19719	0.18768	0.18768	0.000	-4.82355	60.00000	Averaged
130 2,3,4,6-Tetrachlorophenol	0.21610	0.25119	0.25119	0.000	16.24216	60.00000	Averaged
143 Dinoseb	0.14124	0.14312	0.14312	0.000	1.33061	60.00000	Averaged
173 Carbazole	40.59117	40.00000	0.71022	0.000	1.47793	60.00000	Linear
184 p-Benzoquinone	39.46511	40.00000	0.07221	0.000	-1.33722	60.00000	Linear
192 Methoxychlor	0.44246	0.46919	0.46919	0.000	6.04215	60.00000	Averaged
211 p-Toluidine	1.35079	1.48043	1.48043	0.000	9.59775	60.00000	Averaged
210 m-Toluidine	1.67187	1.66669	1.66669	0.000	-0.31014	60.00000	Averaged
215 2-Ethoxyethanol	0.59723	0.60637	0.60637	0.000	1.52987	60.00000	Averaged
179 Dibenzo(a,c)pyrene	0.27697	0.31724	0.31724	0.000	14.53762	60.00000	Averaged
26 Phthalic anhydride	0.06521	0.07143	0.07143	0.000	9.53869	60.00000	Averaged
214 1,4-Dinitrobenzene	0.20553	0.21680	0.21680	0.000	5.48409	60.00000	Averaged
216 Methylenebis(2-chloroanilin	36.45407	40.00000	0.10370	0.000	-8.86482	60.00000	Linear
M 222 Trichlorophenols	0.27408	0.29543	0.29543	0.000	7.78633	60.00000	Averaged
M 223 Tetrachlorophenols	0.21610	0.25119	0.25119	0.000	16.24216	60.00000	Averaged
M 224 Benzo(b,k)fluoranthene	0.94920	0.96591	0.96591	0.000	1.76000	60.00000	Averaged

Data File: /chem/MSD4.i/s022010.b/s4b2013.d
Report Date: 21-Feb-2010 08:46

Page 1

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Data file : /chem/MSD4.i/s022010.b/s4b2013.d
Lab Smp Id: WBN100215-09.4 Client Smp ID: MEGACVS
Inj Date : 20-FEB-2010 15:00
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |WBN100215-09.4|CVS|1|SVMF|1|MEGACVS
Misc Info : |MSD8270|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 08:46 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: MEGA.sub
Target Version: 3.50
Processing Host: kilroy

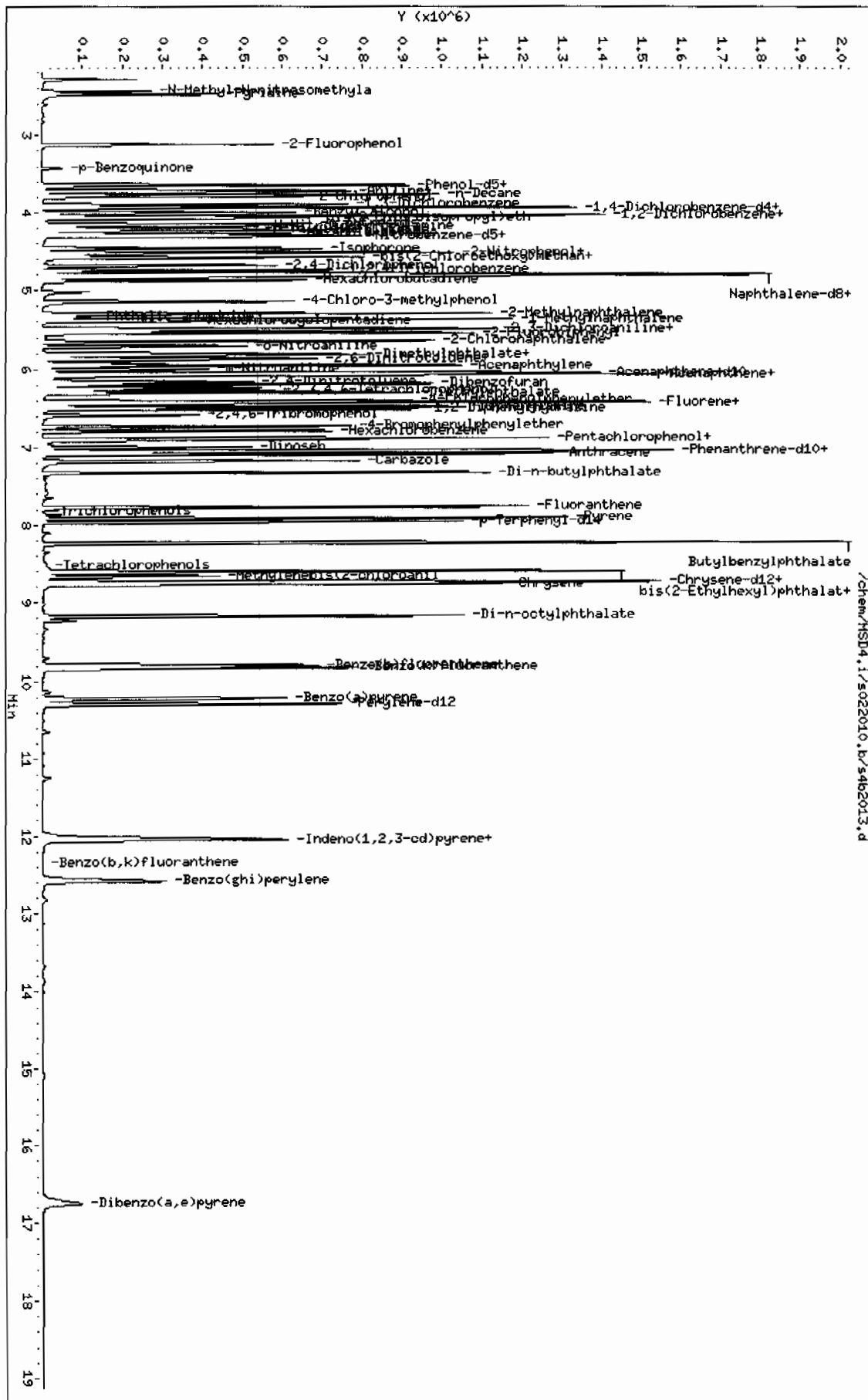
Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
							(ng/ul)	(ng/ul)
* 10 1,4-Dichlorobenzene-d4		152	3.935	3.935	(1.000)	194395	40.0000	
* 29 Naphthalene-d8		136	4.802	4.802	(1.000)	825495	40.0000	
* 46 Acenaphthene-d10		164	6.053	6.053	(1.000)	429249	40.0000	
* 67 Phenanthrene-d10		188	7.043	7.043	(1.000)	661666	40.0000	
* 91 Chrysene-d12		240	8.754	8.754	(1.000)	582982	40.0000	
* 98 Perylene-d12		264	10.300	10.300	(1.000)	527731	40.0000	
\$ 3 2-Fluorophenol		112	3.117	3.117	(0.792)	217571	40.0000	39.3
\$ 5 Phenol-d5		99	3.646	3.646	(0.927)	284775	40.0000	40.9
\$ 20 Nitrobenzene-d5		82	4.299	4.299	(0.895)	250648	40.0000	39.5
\$ 39 2-Fluorobiphenyl		172	5.545	5.545	(0.916)	442063	40.0000	39.9
\$ 60 2,4,6-Tribromophenol		329	6.588	6.588	(1.088)	55198	40.0000	41.1
\$ 81 p-Terphenyl-d14		244	7.968	7.968	(0.910)	367197	40.0000	40.3
1 N-Methyl-N-nitrosomethylamine		74	2.443	2.443	(0.621)	156936	40.0000	39.3
2 Pyridine		79	2.475	2.475	(0.629)	216422	40.0000	38.7
4 Aniline		66	3.721	3.721	(0.946)	112984	40.0000	41.2
6 Phenol		94	3.652	3.652	(0.928)	295315	40.0000	41.7
7 bis(2-Chloroethyl) ether		63	3.732	3.732	(0.948)	176181	40.0000	42.3
8 2-Chlorophenol		128	3.796	3.796	(0.965)	233731	40.0000	40.3
203 n-Decane		43	3.775	3.775	(0.959)	229443	40.0000	41.2
9 1,3-Dichlorobenzene		146	3.898	3.898	(0.990)	239133	40.0000	41.4
11 1,4-Dichlorobenzene		146	3.946	3.946	(1.003)	243446	40.0000	42.0
13 1,2-Dichlorobenzene		146	4.048	4.048	(1.029)	215183	40.0000	40.8
14 bis(2-Chloroisopropyl) ether		45	4.074	4.074	(1.035)	334920	40.0000	43.0
12 Benzyl alcohol		108	3.999	3.999	(1.016)	149005	40.0000	46.4
15 o-Cresol		107	4.048	4.048	(1.029)	166646	40.0000	39.1
18 m,p-Cresols		107	4.149	4.149	(1.054)	238320	40.0000	41.1

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
17 N-Nitrosodipropylamine	70	4.176	4.176	(1.061)	174878	40.0000	44.1
19 Hexachloroethane	117	4.278	4.278	(1.087)	93543	40.0000	43.0
21 Nitrobenzene	77	4.315	4.315	(0.899)	245522	40.0000	40.0
22 Isophorone	82	4.470	4.470	(0.931)	485581	40.0000	38.0
23 2-Nitrophenol	139	4.524	4.524	(0.942)	118026	40.0000	35.5
24 2,4-Dimethylphenol	122	4.518	4.518	(0.941)	229041	40.0000	42.4
25 bis(2-Chloroethoxy)methane	93	4.582	4.582	(0.954)	296552	40.0000	38.8
26 2,4-Dichlorophenol	162	4.684	4.684	(0.975)	175724	40.0000	37.4
27 Benzoic acid	105	4.577	4.577	(0.953)	146175	40.0000	41.4
28 1,2,4-Trichlorobenzene	180	4.754	4.754	(0.990)	184471	40.0000	38.6
30 Naphthalene	128	4.818	4.818	(1.003)	699217	40.0000	37.0
204 alpha-Terpineol	59	4.791	4.791	(0.998)	159677	40.0000	39.7
31 4-Chloroaniline	127	4.834	4.834	(1.007)	347195	40.0000	40.9
32 Hexachlorobutadiene	225	4.877	4.877	(1.016)	93175	40.0000	39.2
33 4-Chloro-3-methylphenol	107	5.144	5.144	(1.071)	190224	40.0000	40.0
34 2-Methylnaphthalene	142	5.299	5.299	(1.104)	423892	40.0000	38.2
35 1-Methylnaphthalene	142	5.374	5.374	(1.119)	417555	40.0000	38.8
36 Hexachlorocyclopentadiene	237	5.401	5.401	(0.892)	70763	40.0000	35.2
205 2,3-Dichloroaniline	161	5.497	5.497	(0.908)	221870	40.0000	39.5
37 2,4,6-Trichlorophenol	196	5.486	5.486	(0.906)	125207	40.0000	45.0
38 2,4,5-Trichlorophenol	196	5.513	5.513	(0.911)	128415	40.0000	39.9
40 2-Chloronaphthalene	162	5.652	5.652	(0.934)	397560	40.0000	38.6
42 o-Nitroaniline	65	5.711	5.711	(0.943)	120405	40.0000	42.2
41 m-Nitroaniline	138	6.011	6.011	(0.993)	106993	40.0000	39.8
43 Dimethylphthalate	163	5.823	5.823	(0.962)	459599	40.0000	40.4
44 2,6-Dinitrotoluene	165	5.877	5.877	(0.971)	111172	40.0000	41.0
50 2,4-Dinitrotoluene	165	6.166	6.166	(1.019)	137467	40.0000	38.9
45 Acenaphthylene	152	5.962	5.962	(0.985)	627064	40.0000	40.0
47 Acenaphthene	154	6.080	6.080	(1.004)	394194	40.0000	36.0
48 2,4-Dinitrophenol	184	6.075	6.075	(1.004)	43881	40.0000	42.7
49 Dibenzofuran	168	6.198	6.198	(1.024)	534513	40.0000	39.5
51 Diethylphthalate	149	6.305	6.305	(1.042)	436974	40.0000	40.9
52 4-Nitrophenol	139	6.091	6.091	(1.006)	89106	40.0000	42.7
53 Fluorene	166	6.428	6.428	(1.062)	456096	40.0000	38.3
54 4-Chlorophenylphenylether	204	6.406	6.406	(1.058)	194804	40.0000	38.2
55 2-Methyl-4,6-dinitrophenol	198	6.444	6.444	(0.915)	70432	40.0000	39.3
56 p-Nitroaniline	138	6.433	6.433	(1.063)	82852	40.0000	39.9
133 Diphenylamine	169	6.487	6.487	(0.921)	358652	40.0000	41.0
58 1,2-Diphenylhydrazine	77	6.513	6.513	(0.925)	493471	40.0000	43.2
61 4-Bromophenylphenylether	248	6.733	6.733	(0.956)	112518	40.0000	38.9
63 Hexachlorobenzene	284	6.791	6.791	(0.964)	125874	40.0000	40.3
65 Pentachlorophenol	266	6.909	6.909	(0.981)	67105	40.0000	43.8
206 n-Octadecane	57	6.888	6.888	(0.978)	259937	40.0000	42.8
68 Phenanthrene	178	7.059	7.059	(1.002)	633413	40.0000	38.8
69 Anthracene	178	7.091	7.091	(1.007)	636153	40.0000	38.4
72 Di-n-butylphthalate	149	7.332	7.332	(1.041)	714057	40.0000	39.9
76 Fluoranthene	202	7.776	7.776	(1.104)	596979	40.0000	39.0

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
79 Pyrene		202	7.920	7.920	(0.905)	636104	40.0000	40.0
85 Butylbenzylphthalate		149	8.241	8.241	(0.941)	270355	40.0000	40.1
89 Benzo(a)anthracene		228	8.738	8.738	(0.998)	541628	40.0000	39.6
92 Chrysene		228	8.776	8.776	(1.002)	525972	40.0000	38.3
93 bis(2-Ethylhexyl)phthalate		149	8.615	8.615	(0.984)	433383	40.0000	44.8
94 Di-n-octylphthalate		149	9.182	9.182	(0.891)	738795	40.0000	46.8
95 Benzo(b)fluoranthene		252	9.803	9.803	(0.952)	502841	40.0000	40.4
96 Benzo(k)fluoranthene		252	9.835	9.835	(0.955)	516636	40.0000	41.0
97 Benzo(a)pyrene		252	10.231	10.231	(0.993)	440088	40.0000	41.4
99 Indeno(1,2,3-cd)pyrene		276	12.055	12.055	(1.170)	413452	40.0000	43.3
100 Dibenzo(a,h)anthracene		278	12.055	12.055	(1.170)	349241	40.0000	44.4
101 Benzo(ghi)perylene		276	12.589	12.589	(1.222)	337070	40.0000	42.8
126 m-Dinitrobenzene		168	5.866	5.866	(0.969)	80561	40.0000	38.1
130 2,3,4,6-Tetrachlorophenol		232	6.267	6.267	(1.035)	107825	40.0000	46.5
143 Dinoseb		211	6.995	6.995	(0.993)	94698	40.0000	40.5
173 Carbazole		167	7.177	7.177	(1.019)	469930	40.0000	40.6
184 p-Benzoquinone		54	3.422	3.422	(0.870)	14037	40.0000	39.5
192 Methoxychlor		227	8.605	8.605	(0.983)	273531	40.0000	42.4
211 p-Toluidine		106	4.213	4.213	(1.071)	287789	40.0000	43.8
210 m-Toluidine		106	4.235	4.235	(1.076)	323996	40.0000	39.9
215 2-Ethoxyethanol		59	2.288	2.288	(0.581)	117875	40.0000	40.6
179 Dibenzo(a,e)pyrene		302	16.756	16.756	(1.627)	167417	40.0000	45.8
26 Phthalic anhydride		104	5.342	5.342	(1.113)	58969	40.0000	43.8
214 1,4-Dinitrobenzene		75	5.807	5.807	(0.959)	93063	40.0000	42.2
216 Methylenebis(2-chloroaniline)		231	8.669	8.669	(0.990)	60457	40.0000	36.4
M 222 Trichlorophenols		196				253622	80.0000	86.2
M 223 Tetrachlorophenols		232				107825	40.0000	46.5
M 224 Benzo(b,k)fluoranthene		252				1019477	80.0000	81.4

Data File: /chem/HSD4.1/s022010.b/s4b2013.d
 Date : 20-FEB-2010 15:00
 Client ID: MEGACVS
 Sample Info: IBBN00215-09.41CVS111SMF111MEGACVS
 Column phase: J&W DB-5MS

Instrument: HSD4.1
 Operator: JMB3
 Column diameter: 0.20



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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 20-FEB-2010 15:27
Lab File ID: s4b2014.d Init. Cal. Date(s): 16-FEB-2010 17-FEB-2010
Analysis Type: Init. Cal. Times: 10:08 20:54
Lab Sample ID: WBN100218-05.3 Quant Type: ISTD
Method: /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
209 Benzaldehyde	0.85795	1.00226	1.00226	0.000	16.82087	60.00000	Averaged
16 Acetophenone	1.21136	1.35749	1.35749	0.000	12.06310	60.00000	Averaged
189 Caprolactam	0.09106	0.09812	0.09812	0.000	7.75268	60.00000	Averaged
208 1,1'-Biphenyl	1.13159	1.25730	1.25730	0.000	11.10910	60.00000	Averaged
207 Atrazine	0.04652	0.04526	0.04526	0.000	-2.70605	60.00000	Averaged
77 Benzidine	0.30518	0.25456	0.25456	0.000	-16.58658	60.00000	Averaged
90 3,3'-Dichlorobenzidine	0.26870	0.28982	0.28982	0.000	7.85958	60.00000	Averaged
102 1,4-Dioxane	0.41759	0.45280	0.45280	0.000	8.43334	60.00000	Averaged
103 Methyl methacrylate	0.20750	0.21947	0.21947	0.000	5.76809	60.00000	Averaged
104 Ethyl methacrylate	0.85622	0.95063	0.95063	0.000	11.02544	60.00000	Averaged
105 2-Picoline	1.37151	1.47573	1.47573	0.000	7.59846	60.00000	Averaged
106 N-Nitrosomethylethylamine	0.59363	0.59249	0.59249	0.000	-0.19221	60.00000	Averaged
107 Methyl methanesulfonate	0.43779	0.49563	0.49563	0.000	13.21054	60.00000	Averaged
108 N-Nitrosodiethylamine	0.58762	0.60014	0.60014	0.000	2.13083	60.00000	Averaged
109 Ethyl Methanesulfonate	0.69655	0.71529	0.71529	0.000	2.69021	60.00000	Averaged
110 Pentachloroethane	0.29093	0.32741	0.32741	0.000	12.54086	60.00000	Averaged
111 N-Nitrosopyrrolidine	0.58368	0.63826	0.63826	0.000	9.35127	60.00000	Averaged
113 N-Nitrosomorpholine	0.48127	0.56852	0.56852	0.000	18.13043	60.00000	Averaged
114 o-Toluidine	1.83778	2.03891	2.03891	0.000	10.94394	60.00000	Averaged
115 N-Nitrosopiperidine	0.15881	0.15894	0.15894	0.000	0.08541	60.00000	Averaged
116 a,a-Dimethylphenethylamine	0.70536	0.73795	0.73795	0.000	4.62033	60.00000	Averaged
118 2,6-Dichlorophenol	0.20017	0.21099	0.21099	0.000	5.40501	60.00000	Averaged
119 Hexachloropropene	40.66999	40.00000	0.08460	0.000	1.67497	60.00000	Linear
120 p-Phenylenediamine	0.23280	0.25446	0.25446	0.000	9.30421	60.00000	Averaged
121 N-Nitrosodi-n-butylamine	0.20854	0.21865	0.21865	0.000	4.85122	60.00000	Averaged
122 Safrole	0.18358	0.19355	0.19355	0.000	5.42620	60.00000	Averaged
123 1,2,4,5-Tetrachlorobenzene	0.36842	0.39318	0.39318	0.000	6.72264	60.00000	Averaged
124 Isosafrole	0.35193	0.36624	0.36624	0.000	4.06622	60.00000	Averaged
125 1,4-Naphthoquinone	0.31478	0.32013	0.32013	0.000	1.70058	60.00000	Averaged
127 Pentachlorobenzene	0.32751	0.35311	0.35311	0.000	7.81676	60.00000	Averaged
128 1-Naphthylamine	0.88383	0.91605	0.91605	0.000	3.64518	60.00000	Averaged
129 2-Naphthylamine	0.93409	1.00639	1.00639	0.000	7.74011	60.00000	Averaged
131 5-Nitro-o-toluidine	0.27364	0.27116	0.27116	0.000	-0.90789	60.00000	Averaged
136 1,3,5-Trinitrobenzene	42.73899	40.00000	0.11672	0.000	6.84747	60.00000	Linear
137 Phenacetin	0.27663	0.30803	0.30803	0.000	11.35097	60.00000	Averaged
138 Diallate	0.31999	0.33920	0.33920	0.000	6.00475	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 20-FEB-2010 15:27
 Lab File ID: s4b2014.d Init. Cal. Date(s): 16-FEB-2010 17-FEB-2010
 Analysis Type: Init. Cal. Times: 10:08 20:54
 Lab Sample ID: WBN100218-05.3 Quant Type: ISTD
 Method: /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m

COMPOUND	RRE / AMOUNT	REF40	CCAL	MIN	MAX	CURVE TYPE
			RRE40	RRE %D / %DRIFT	%D / %DRIFT	
212 Cis Diallate	0.35497	0.35581	0.35581	0.000	0.23656	Averaged
213 Trans Diallate	0.37646	0.39906	0.39906	0.000	6.00475	Averaged
140 4-Aminobiphenyl	0.49579	0.57919	0.57919	0.000	16.82061	Averaged
141 Pentachloronitrobenzene	0.05299	0.06780	0.06780	0.000	27.92819	Averaged
142 Pronamide	0.22113	0.26888	0.26888	0.000	21.58943	Averaged
146 4-Nitroquinoline-1-oxide	0.01286	0.00661	0.00661	0.000	-48.59818	Averaged
147 Methapyrilene	0.32789	0.31906	0.31906	0.000	-2.69352	Averaged
148 Isodrin	0.09685	0.09566	0.09566	0.000	-1.22702	Averaged
149 Aramite	0.05097	0.04610	0.04610	0.000	-9.55622	Averaged
150 Kepone	0.07421	0.06882	0.06882	0.000	-7.26219	Averaged
151 p-(Dimethylamino)azobenzene	0.32064	0.33890	0.33890	0.000	5.69308	Averaged
152 Chlorobenzilate	0.29648	0.27401	0.27401	0.000	-7.57817	Averaged
153 3,3'-Dimethylbenzidine	0.45577	0.47785	0.47785	0.000	4.84619	Averaged
155 2-Acetylaminofluorene	0.27068	0.31646	0.31646	0.000	16.91480	Averaged
157 7,12Dimethylbenz(a)anthracene	0.42890	0.51139	0.51139	0.000	19.23251	Averaged
158 3-Methylcholanthrene	0.37631	0.39414	0.39414	0.000	4.73864	Averaged

Data File: /chem/MSD4.i/s022010.b/s4b2014.d
Report Date: 20-Feb-2010 15:57

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Data file : /chem/MSD4.i/s022010.b/s4b2014.d
Lab Smp Id: WBN100218-05.3 Client Smp ID: APCVS
Inj Date : 20-FEB-2010 15:27
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |WBN100218-05.3|CVS|1|SVMF|1|APCVS
Misc Info : |MSD8270|WBN100217-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
Meth Date : 20-Feb-2010 15:57 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AP12.sub
Target Version: 3.50
Processing Host: kilroy

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	=====	==	=====	=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	152	3.930	3.930	(1.000)	175572	40.0000		
* 29 Naphthalene-d8	136	4.802	4.802	(1.000)	671400	40.0000		
* 46 Acenaphthene-d10	164	6.053	6.053	(1.000)	351682	40.0000		
* 67 Phenanthrene-d10	188	7.043	7.043	(1.000)	504090	40.0000		
* 91 Chrysene-d12	240	8.733	8.733	(1.000)	393866	40.0000		
* 98 Perylene-d12	264	10.273	10.273	(1.000)	329897	40.0000		
209 Benzaldehyde	77	3.657	3.657	(0.931)	175968	40.0000		46.7
16 Acetophenone	105	4.187	4.187	(1.065)	238337	40.0000		44.8
189 Caprolactam	113	5.080	5.080	(1.058)	65879	40.0000		43.1
208 1,1'-Biphenyl	154	5.625	5.625	(0.929)	442171	40.0000		44.4
207 Atrazine	173	6.808	6.808	(0.967)	22816	40.0000		38.9
77 Benzidine	184	7.824	7.824	(0.896)	100261	40.0000		33.4
90 3,3'-Dichlorobenzidine	252	8.658	8.658	(0.991)	114150	40.0000		43.1
102 1,4-Dioxane	88	2.293	2.293	(0.584)	79499	40.0000		43.4
103 Methyl methacrylate	100	2.288	2.288	(0.582)	38533	40.0000		42.3
104 Ethyl methacrylate	69	2.646	2.646	(0.673)	166903	40.0000		44.4
105 2-Picoline	93	2.839	2.839	(0.722)	259096	40.0000		43.0
106 N-Nitrosomethylethylamine	88	2.876	2.876	(0.732)	104024	40.0000		39.9
107 Methyl methanesulfonate	80	3.031	3.031	(0.771)	87018	40.0000		45.3
108 N-Nitrosodiethylamine	102	3.261	3.261	(0.830)	105368	40.0000		40.8
109 Ethyl Methanesulfonate	79	3.417	3.417	(0.869)	125584	40.0000		41.1
110 Pentachloroethane	167	3.759	3.759	(0.956)	57484	40.0000		45.0
111 N-Nitrosopyrrolidine	100	4.176	4.176	(1.063)	112061	40.0000		43.7
113 N-Nitrosomorpholine	56	4.197	4.197	(1.068)	99816	40.0000		47.2
114 o-Toluidine	106	4.208	4.208	(1.071)	357975	40.0000		44.4
115 N-Nitrosopiperidine	114	4.411	4.411	(0.919)	106713	40.0000		40.0

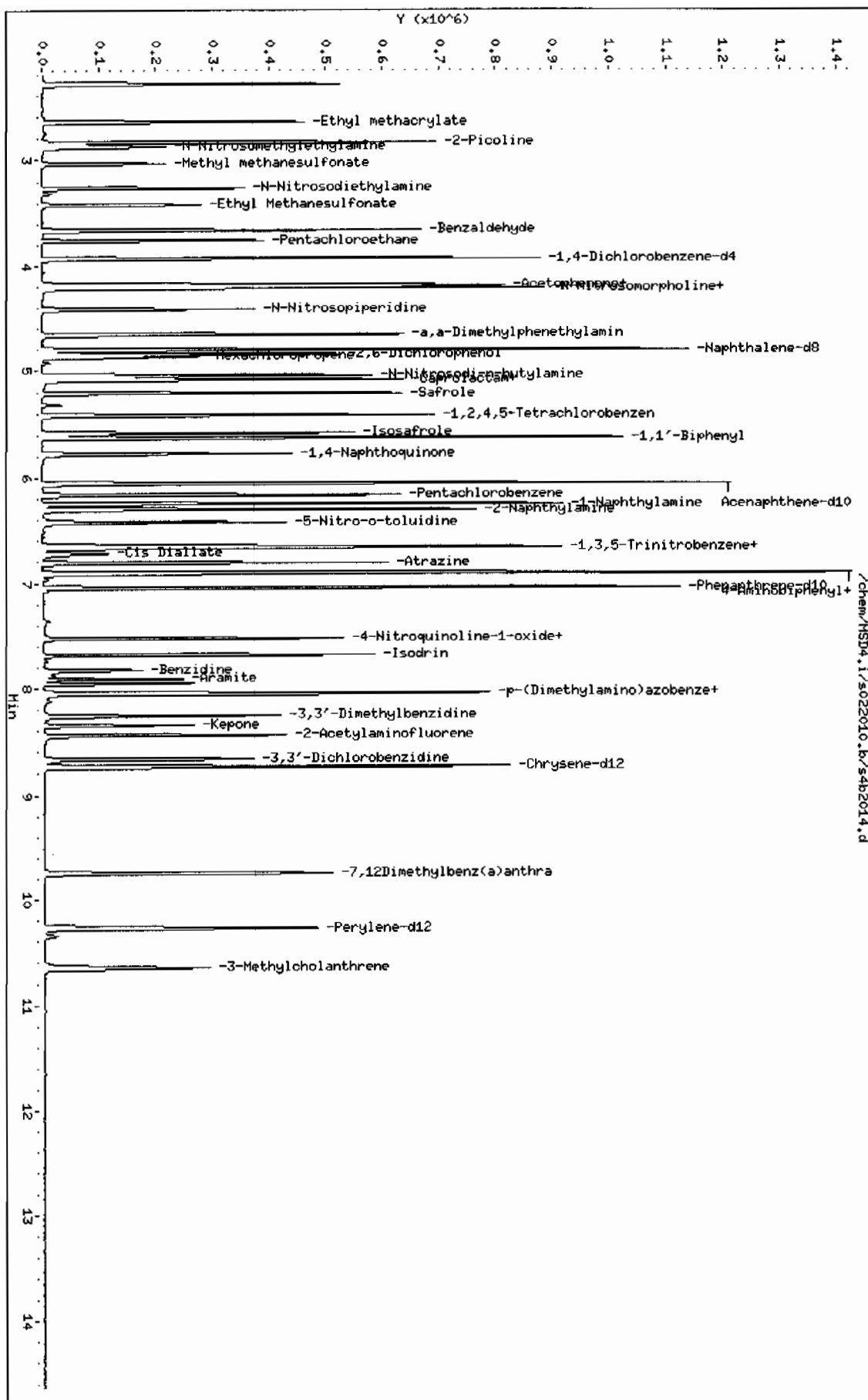
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	----	==	=====	=====	=====	=====	=====
116 a,a-Dimethylphenethylamine	58	4.652	4.652	(0.969)	495462	40.0000	41.8
118 2,6-Dichlorophenol	162	4.845	4.845	(1.009)	141655	40.0000	42.2
119 Hexachloropropene	213	4.871	4.871	(1.014)	56800	40.0000	40.7
120 p-Phenylenediamine	108	5.085	5.085	(1.059)	170842	40.0000	43.7
121 N-Nitrosodi-n-butylamine	84	5.042	5.042	(1.050)	146804	40.0000	41.9
122 Safrole	162	5.214	5.214	(1.086)	129947	40.0000	42.2
123 1,2,4,5-Tetrachlorobenzene	216	5.417	5.417	(0.895)	138276	40.0000	42.7
124 Isosafrole	162	5.583	5.583	(0.922)	128801	40.0000	41.6
125 1,4-Naphthoquinone	158	5.775	5.775	(0.954)	112585	40.0000	40.7
127 Pentachlorobenzene	250	6.160	6.160	(1.018)	124184	40.0000	43.1
128 1-Naphthylamine	143	6.246	6.246	(1.032)	322159	40.0000	41.4
129 2-Naphthylamine	143	6.299	6.299	(1.041)	353931	40.0000	43.1
131 5-Nitro-o-toluidine	152	6.422	6.422	(1.061)	95361	40.0000	39.6
136 1,3,5-Trinitrobenzene	75	6.636	6.636	(0.942)	58838	40.0000	42.7
137 Phenacetin	108	6.668	6.668	(0.947)	155277	40.0000	44.5 (Q)
138 Diallate	86	6.652	6.652	(0.945)	170988	40.0000	42.4
212 Cis Diallate	86	6.717	6.717	(0.954)	26903	6.00000	6.0
213 Trans Diallate	86	6.652	6.652	(0.945)	170988	34.0000	36.0
140 4-Aminobiphenyl	169	6.898	6.898	(0.979)	291962	40.0000	46.7
141 Pentachloronitrobenzene	237	6.915	6.915	(0.982)	34174	40.0000	51.2 (Q)
142 Pronamide	173	6.904	6.904	(0.980)	135537	40.0000	48.6
146 4-Nitroquinoline-1-oxide	101	7.514	7.514	(1.067)	3332	40.0000	20.6
147 Methapyrilene	58	7.524	7.524	(1.068)	160836	40.0000	38.9
148 Isodrin	193	7.685	7.685	(1.091)	48223	40.0000	39.5
149 Aramite	185	7.915	7.915	(1.124)	23237	40.0000	36.2
150 Kepone	272	8.343	8.343	(1.185)	34693	40.0000	37.1
151 p-(Dimethylamino)azobenzene	120	8.038	8.038	(0.920)	133479	40.0000	42.3
152 Chlorobenzilate	251	8.054	8.054	(0.922)	107924	40.0000	37.0
153 3,3'-Dimethylbenzidine	212	8.257	8.257	(0.945)	188210	40.0000	41.9
155 2-Acetylaminofluorene	181	8.439	8.439	(0.966)	124644	40.0000	46.8
157 7,12Dimethylbenz(a)anthracene	256	9.744	9.744	(0.948)	168705	40.0000	47.7
158 3-Methylcholanthrene	268	10.653	10.653	(1.037)	130025	40.0000	41.9

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/MSD4.i/s022010.b/s4b2014.d
 Date : 20-FEB-2010 15:27
 Client ID: APCVS
 Sample Info: IJBN100218-05.31CVS11.SWFF11.APCVS
 Column phase: J&W DB-5MS

Instrument: MSD4.1
 Operator: JHB3
 Column diameter: 0.20



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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 21-FEB-2010 11:34
Lab File ID: s4b2106.d Init. Cal. Date(s): 16-FEB-2010 17-FEB-2010
Analysis Type: Init. Cal. Times: 10:08 20:54
Lab Sample ID: WBN100215-09.4 Quant Type: ISTD
Method: /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
3 2-Fluorophenol	1.13979	1.11758	1.11758	0.000	-1.94905	60.00000	Averaged
5 Phenol-d5	1.43191	1.48338	1.48338	0.000	3.59494	60.00000	Averaged
20 Nitrobenzene-d5	0.30717	0.33918	0.33918	0.000	10.41970	60.00000	Averaged
39 2-Fluorobiphenyl	1.03281	1.00435	1.00435	0.000	-2.75614	60.00000	Averaged
60 2,4,6-Tribromophenol	0.12510	0.14593	0.14593	0.000	16.65686	60.00000	Averaged
81 p-Terphenyl-d14	0.62529	0.67088	0.67088	0.000	7.29157	60.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.82083	0.90367	0.90367	0.000	10.09219	60.00000	Averaged
2 Pyridine	1.14982	1.24052	1.24052	0.000	7.88847	60.00000	Averaged
4 Aniline	0.56446	0.65903	0.65903	0.000	16.75450	60.00000	Averaged
6 Phenol	1.45555	1.56649	1.56649	0.001	7.62122	20.00000	Averaged|ccc
7 bis(2-Chloroethyl) ether	0.85752	1.03993	1.03993	0.000	21.27232	60.00000	Averaged
8 2-Chlorophenol	1.19326	1.13676	1.13676	0.000	-4.73497	60.00000	Averaged
203 n-Decane	1.14554	1.42597	1.42597	0.000	24.47942	60.00000	Averaged
9 1,3-Dichlorobenzene	1.18927	1.20950	1.20950	0.000	1.70166	60.00000	Averaged
11 1,4-Dichlorobenzene	1.19193	1.24717	1.24717	0.001	4.63429	20.00000	Averaged|ccc
13 1,2-Dichlorobenzene	1.08549	1.09764	1.09764	0.000	1.11914	60.00000	Averaged
14 bis(2-Chloroisopropyl)ether	1.60426	1.96423	1.96423	0.000	22.43810	60.00000	Averaged
12 Benzyl alcohol	0.66113	0.79597	0.79597	0.000	20.39634	60.00000	Averaged
15 o-Cresol	0.87618	0.93749	0.93749	0.000	6.99714	60.00000	Averaged
18 m,p-Cresols	1.19261	1.24541	1.24541	0.000	4.42709	60.00000	Averaged
17 N-Nitrosodipropylamine	0.81552	1.01166	1.01166	0.050	24.05028	60.00000	Averaged|spcc
19 Hexachloroethane	0.44754	0.49811	0.49811	0.000	11.30067	60.00000	Averaged
21 Nitrobenzene	0.29707	0.34812	0.34812	0.000	17.18589	60.00000	Averaged
22 Isophorone	0.61948	0.65492	0.65492	0.000	5.72139	60.00000	Averaged
23 2-Nitrophenol	0.16102	0.13471	0.13471	0.001	-16.33888	20.00000	Averaged|ccc
24 2,4-Dimethylphenol	0.26181	0.26235	0.26235	0.000	0.20592	60.00000	Averaged
25 bis(2-Chloroethoxy)methane	0.37080	0.38822	0.38822	0.000	4.69864	60.00000	Averaged
26 2,4-Dichlorophenol	0.22734	0.20805	0.20805	0.001	-8.48178	20.00000	Averaged|ccc
27 Benzoic acid	40.24405	40.00000	0.16967	0.000	0.61013	60.00000	Linear
28 1,2,4-Trichlorobenzene	0.23172	0.23142	0.23142	0.000	-0.12790	60.00000	Averaged
30 Naphthalene	0.91608	0.81583	0.81583	0.000	-10.94284	60.00000	Averaged
204 alpha-Terpineol	0.19469	0.24322	0.24322	0.000	24.92899	60.00000	Averaged
31 4-Chloroaniline	0.41124	0.38907	0.38907	0.000	-5.38913	60.00000	Averaged
32 Hexachlorobutadiene	0.11515	0.12786	0.12786	0.001	11.03945	20.00000	Averaged|ccc
33 4-Chloro-3-methylphenol	0.23051	0.23780	0.23780	0.001	3.16476	20.00000	Averaged|ccc
34 2-Methylnaphthalene	0.53694	0.48202	0.48202	0.000	-10.22823	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 21-FEB-2010 11:34
Lab File ID: s4b2106.d Init. Cal. Date(s): 16-FEB-2010 17-FEB-2010
Analysis Type: Init. Cal. Times: 10:08 20:54
Lab Sample ID: WBN100215-09.4 Quant Type: ISTD
Method: /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
35 1-Methylnaphthalene	0.52211	0.47330	0.47330	0.000	-9.34865	60.00000	Averaged
36 Hexachlorocyclopentadiene	0.18735	0.18308	0.18308	0.050	-2.28037	60.00000	Averaged|spcc
205 2,3-Dichloroaniline	0.52378	0.51622	0.51622	0.000	-1.44337	60.00000	Averaged
37 2,4,6-Trichlorophenol	0.25903	0.29454	0.29454	0.001	13.71201	20.00000	Averaged|ccc
38 2,4,5-Trichlorophenol	0.29955	0.31676	0.31676	0.000	5.74255	60.00000	Averaged
40 2-Chloronaphthalene	0.96029	0.90324	0.90324	0.000	-5.94108	60.00000	Averaged
42 o-Nitroaniline	0.26586	0.31540	0.31540	0.000	18.63568	60.00000	Averaged
41 m-Nitroaniline	35.45974	40.00000	0.21994	0.000	-11.35066	60.00000	Linear
43 Dimethylphthalate	1.05863	1.02434	1.02434	0.000	-3.23858	60.00000	Averaged
44 2,6-Dinitrotoluene	0.25249	0.24216	0.24216	0.000	-4.09113	60.00000	Averaged
50 2,4-Dinitrotoluene	0.32954	0.30139	0.30139	0.000	-8.54290	60.00000	Averaged
45 Acenaphthylene	1.46134	1.40921	1.40921	0.000	-3.56692	60.00000	Averaged
47 Acenaphthene	1.01927	0.90370	0.90370	0.001	-11.33887	20.00000	Averaged|ccc
48 2,4-Dinitrophenol	0.09585	0.09476	0.09476	0.050	-1.13713	60.00000	Averaged|spcc
49 Dibenzofuran	1.26028	1.18744	1.18744	0.000	-5.77967	60.00000	Averaged
51 Diethylphthalate	0.99645	1.01212	1.01212	0.000	1.57333	60.00000	Averaged
52 4-Nitrophenol	39.28996	40.00000	0.18786	0.050	-1.77510	60.00000	Linear|spcc
53 Fluorene	1.11013	1.04188	1.04188	0.000	-6.14835	60.00000	Averaged
54 4-Chlorophenylphenylether	0.47469	0.47581	0.47581	0.000	0.23469	60.00000	Averaged
55 2-Methyl-4,6-dinitrophenol	0.10836	0.09261	0.09261	0.000	-14.53832	60.00000	Averaged
56 p-Nitroaniline	0.19331	0.15896	0.15896	0.000	-17.77119	60.00000	Averaged
133 Diphenylamine	0.52934	0.48448	0.48448	0.001	-8.47409	20.00000	Averaged|ccc
58 1,2-Diphenylhydrazine	0.69021	0.80387	0.80387	0.000	16.46653	60.00000	Averaged
61 4-Bromophenylphenylether	0.17497	0.17504	0.17504	0.000	0.03947	60.00000	Averaged
63 Hexachlorobenzene	0.18879	0.19426	0.19426	0.000	2.89571	60.00000	Averaged
65 Pentachlorophenol	0.09256	0.10491	0.10491	0.001	13.34414	20.00000	Averaged|ccc
206 n-Octadecane	0.36714	0.44571	0.44571	0.000	21.40089	60.00000	Averaged
68 Phenanthrene	0.98692	0.93059	0.93059	0.000	-5.70772	60.00000	Averaged
69 Anthracene	1.00244	0.91565	0.91565	0.000	-8.65799	60.00000	Averaged
72 Di-n-butylphthalate	1.08225	1.03340	1.03340	0.000	-4.51335	60.00000	Averaged
76 Fluoranthene	0.92422	0.84517	0.84517	0.001	-8.55275	20.00000	Averaged|ccc
79 Pyrene	1.09018	1.06146	1.06146	0.000	-2.63506	60.00000	Averaged
85 Butylbenzylphthalate	0.46266	0.47313	0.47313	0.000	2.26284	60.00000	Averaged
89 Benzo(a)anthracene	0.93727	0.87579	0.87579	0.000	-6.56025	60.00000	Averaged
92 Chrysene	0.94297	0.89056	0.89056	0.000	-5.55800	60.00000	Averaged
93 bis(2-Ethylhexyl)phthalate	0.66314	0.70618	0.70618	0.000	6.49128	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 21-FEB-2010 11:34
Lab File ID: s4b2106.d Init. Cal. Date(s): 16-FEB-2010 17-FEB-2010
Analysis Type: Init. Cal. Times: 10:08 20:54
Lab Sample ID: WBN100215-09.4 Quant Type: ISTD
Method: /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m

COMPOUND	RRE / AMOUNT	REF0	CCAL	MIN	MAX	CURVE TYPE
			RRF40	RRF	%D / %DRIFT	
94 Di-n-octylphthalate	1.19630	1.39908	1.39908	0.001	16.95061	Averaged|ccc
95 Benzo(b)fluoranthene	0.94362	1.01813	1.01813	0.000	7.89589	Averaged
96 Benzo(k)fluoranthene	0.95478	0.92974	0.92974	0.000	-2.62250	Averaged
97 Benzo(a)pyrene	0.80648	0.81143	0.81143	0.001	0.61321	Averaged|ccc
99 Indeno(1,2,3-cd)pyrene	0.72396	0.78556	0.78556	0.000	8.50961	Averaged
100 Dibenzo(a,h)anthracene	0.59590	0.66040	0.66040	0.000	10.82357	Averaged
101 Benzo(ghi)perylene	0.59674	0.63865	0.63865	0.000	7.02358	Averaged
126 m-Dinitrobenzene	0.19719	0.17304	0.17304	0.000	-12.24694	Averaged
130 2,3,4,6-Tetrachlorophenol	0.21610	0.25997	0.25997	0.000	20.30534	Averaged
143 Dinoseb	0.14124	0.12953	0.12953	0.000	-8.29011	Averaged
173 Carbazole	29.06704	40.00000	0.51112	0.000	-27.33239	Linear
184 p-Benzoquinone	49.55265	40.00000	0.09823	0.000	23.88164	Linear
192 Methoxychlor	0.44246	0.46334	0.46334	0.000	4.71949	Averaged
211 p-Toluidine	1.35079	1.42654	1.42654	0.000	5.60775	Averaged
210 m-Toluidine	1.67187	1.67815	1.67815	0.000	0.37545	Averaged
215 2-Ethoxyethanol	0.59723	0.70397	0.70397	0.000	17.87196	Averaged
179 Dibenzo(a,e)pyrene	0.27697	0.34496	0.34496	0.000	24.54607	Averaged
26 Phthalic anhydride	0.06521	0.07378	0.07378	0.000	13.13165	Averaged
214 1,4-Dinitrobenzene	0.20553	0.24749	0.24749	0.000	20.41316	Averaged
216 Methylenebis(2-chloroanilin	37.90639	40.00000	0.10945	0.000	-5.23403	Linear
M 222 Trichlorophenols	0.27408	0.30565	0.30565	0.000	11.51663	Averaged
M 223 Tetrachlorophenols	0.21610	0.25997	0.25997	0.000	20.30534	Averaged
M 224 Benzo(b,k)fluoranthene	0.94920	0.97393	0.97393	0.000	2.60579	Averaged

Data File: /chem/MSD4.i/s022110a.b/s4b2106.d
 Report Date: 26-Feb-2010 16:45

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Data file : /chem/MSD4.i/s022110a.b/s4b2106.d
 Lab Smp Id: WBN100215-09.4 Client Smp ID: MEGACVS
 Inj Date : 21-FEB-2010 11:34
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |WBN100215-09.4|CVS|1|SVMF|1|MEGACVS
 Misc Info : |MSD8270|WBN100205-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
 Meth Date : 26-Feb-2010 16:45 jos00786 Quant Type: ISTD
 Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: MEGA.sub
 Target Version: 3.50
 Processing Host: kilroy

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
* 10 1,4-Dichlorobenzene-d4	152	3.903	3.903	(1.000)	141610	40.0000	
* 29 Naphthalene-d8	136	4.770	4.770	(1.000)	587236	40.0000	
* 46 Acenaphthene-d10	164	6.027	6.027	(1.000)	303287	40.0000	
* 67 Phenanthrene-d10	188	7.016	7.016	(1.000)	484374	40.0000	
* 91 Chrysene-d12	240	8.717	8.717	(1.000)	413810	40.0000	
* 98 Perylene-d12	264	10.236	10.236	(1.000)	325829	40.0000	
\$ 3 2-Fluorophenol	112	3.090	3.090	(0.792)	158260	40.0000	39.2
\$ 5 Phenol-d5	99	3.614	3.614	(0.926)	210062	40.0000	41.4
\$ 20 Nitrobenzene-d5	82	4.267	4.267	(0.895)	199176	40.0000	44.2
\$ 39 2-Fluorobiphenyl	172	5.513	5.513	(0.915)	304606	40.0000	38.9
\$ 60 2,4,6-Tribromophenol	329	6.561	6.561	(1.089)	44260	40.0000	46.7
\$ 81 p-Terphenyl-d14	244	7.941	7.941	(0.911)	277617	40.0000	42.9
1 N-Methyl-N-nitrosomethylamine	74	2.406	2.406	(0.616)	127969	40.0000	44.0
2 Pyridine	79	2.438	2.438	(0.625)	175670	40.0000	43.2
4 Aniline	66	3.689	3.689	(0.945)	93325	40.0000	46.7
6 Phenol	94	3.625	3.625	(0.929)	221830	40.0000	43.0
7 bis(2-Chloroethyl) ether	63	3.700	3.700	(0.948)	147265	40.0000	48.5
8 2-Chlorophenol	128	3.764	3.764	(0.964)	160976	40.0000	38.1
203 n-Decane	43	3.748	3.748	(0.960)	201931	40.0000	49.8
9 1,3-Dichlorobenzene	146	3.871	3.871	(0.992)	171278	40.0000	40.7
11 1,4-Dichlorobenzene	146	3.914	3.914	(1.003)	176612	40.0000	41.8
13 1,2-Dichlorobenzene	146	4.016	4.016	(1.029)	155437	40.0000	40.4
14 bis(2-Chloroisopropyl) ether	45	4.048	4.048	(1.037)	278154	40.0000	49.0
12 Benzyl alcohol	108	3.967	3.967	(1.016)	112718	40.0000	48.2
15 o-Cresol	107	4.021	4.021	(1.030)	132758	40.0000	42.8
18 m,p-Cresols	107	4.123	4.123	(1.056)	176362	40.0000	41.8

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====	=====
17 N-Nitrosodipropylamine	70	4.144	4.144	(1.062)	143261	40.0000	49.6
19 Hexachloroethane	117	4.246	4.246	(1.088)	70538	40.0000	44.5
21 Nitrobenzene	77	4.283	4.283	(0.898)	204430	40.0000	46.9
22 Isophorone	82	4.438	4.438	(0.930)	384594	40.0000	42.3
23 2-Nitrophenol	139	4.492	4.492	(0.942)	79109	40.0000	33.5
24 2,4-Dimethylphenol	122	4.486	4.486	(0.941)	154062	40.0000	40.1
25 bis(2-Chloroethoxy)methane	93	4.556	4.556	(0.955)	227976	40.0000	41.9
26 2,4-Dichlorophenol	162	4.652	4.652	(0.975)	122177	40.0000	36.6
27 Benzoic acid	105	4.545	4.545	(0.953)	99634	40.0000	40.2
28 1,2,4-Trichlorobenzene	180	4.722	4.722	(0.990)	135899	40.0000	39.9
30 Naphthalene	128	4.786	4.786	(1.003)	479085	40.0000	35.6
204 alpha-Terpineol	59	4.759	4.759	(0.998)	142830	40.0000	50.0
31 4-Chloroaniline	127	4.802	4.802	(1.007)	228478	40.0000	37.8
32 Hexachlorobutadiene	225	4.850	4.850	(1.017)	75082	40.0000	44.4
33 4-Chloro-3-methylphenol	107	5.112	5.112	(1.072)	139646	40.0000	41.3
34 2-Methylnaphthalene	142	5.267	5.267	(1.104)	283061	40.0000	35.9
35 1-Methylnaphthalene	142	5.342	5.342	(1.120)	277937	40.0000	36.3
36 Hexachlorocyclopentadiene	237	5.369	5.369	(0.891)	55526	40.0000	39.1
205 2,3-Dichloroaniline	161	5.465	5.465	(0.907)	156562	40.0000	39.4
37 2,4,6-Trichlorophenol	196	5.454	5.454	(0.905)	89331	40.0000	45.5
38 2,4,5-Trichlorophenol	196	5.486	5.486	(0.910)	96068	40.0000	42.3
40 2-Chloronaphthalene	162	5.625	5.625	(0.933)	273941	40.0000	37.6
42 o-Nitroaniline	65	5.684	5.684	(0.943)	95658	40.0000	47.4
41 m-Nitroaniline	138	5.979	5.979	(0.992)	66704	40.0000	35.4
43 Dimethylphthalate	163	5.791	5.791	(0.961)	310670	40.0000	38.7
44 2,6-Dinitrotoluene	165	5.850	5.850	(0.971)	73443	40.0000	38.4
50 2,4-Dinitrotoluene	165	6.134	6.134	(1.018)	91408	40.0000	36.6
45 Acenaphthylene	152	5.930	5.930	(0.984)	427396	40.0000	38.6
47 Acenaphthene	154	6.048	6.048	(1.004)	274079	40.0000	35.5
48 2,4-Dinitrophenol	184	6.048	6.048	(1.004)	28739	40.0000	39.5
49 Dibenzofuran	168	6.166	6.166	(1.023)	360136	40.0000	37.7
51 Diethylphthalate	149	6.273	6.273	(1.041)	306964	40.0000	40.6
52 4-Nitrophenol	139	6.064	6.064	(1.006)	56976	40.0000	39.3
53 Fluorene	166	6.401	6.401	(1.062)	315988	40.0000	37.5
54 4-Chlorophenylphenylether	204	6.380	6.380	(1.059)	144306	40.0000	40.1
55 2-Methyl-4,6-dinitrophenol	198	6.417	6.417	(0.915)	44857	40.0000	34.2
56 p-Nitroaniline	138	6.401	6.401	(1.062)	48210	40.0000	32.9
133 Diphenylamine	169	6.455	6.455	(0.920)	234670	40.0000	36.6
58 1,2-Diphenylhydrazine	77	6.487	6.487	(0.925)	389372	40.0000	46.6
61 4-Bromophenylphenylether	248	6.706	6.706	(0.956)	84783	40.0000	40.0
63 Hexachlorobenzene	284	6.759	6.759	(0.963)	94094	40.0000	41.2
65 Pentachlorophenol	266	6.882	6.882	(0.981)	50814	40.0000	45.3
206 n-Octadecane	57	6.861	6.861	(0.978)	215890	40.0000	48.6
68 Phenanthrene	178	7.032	7.032	(1.002)	450753	40.0000	37.7
69 Anthracene	178	7.064	7.064	(1.007)	443517	40.0000	36.5
72 Di-n-butylphthalate	149	7.305	7.305	(1.041)	500553	40.0000	38.2
76 Fluoranthene	202	7.749	7.749	(1.104)	409378	40.0000	36.6

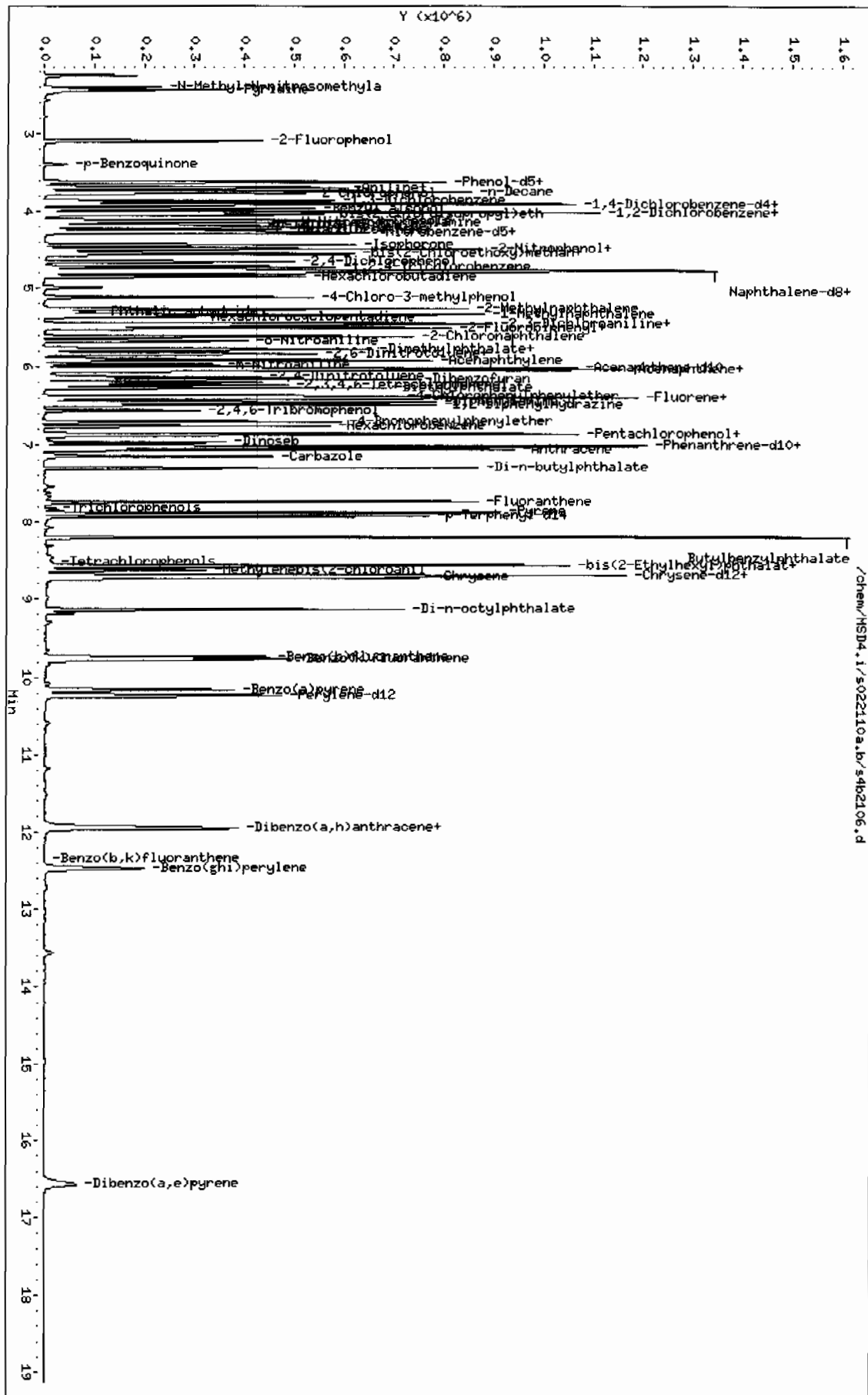
Compounds	QUANT SIG			RESPONSE	AMOUNTS	
	MASS	RT	EXP RT REL RT		CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	=====	=====	=====	=====	=====
79 Pyrene	202	7.893	7.893 (0.906)	439241	40.0000	38.9
85 Butylbenzylphthalate	149	8.214	8.214 (0.942)	195784	40.0000	40.9
89 Benzo(a)anthracene	228	8.701	8.701 (0.998)	362409	40.0000	37.4
92 Chrysene	228	8.738	8.738 (1.002)	368524	40.0000	37.8
93 bis(2-Ethylhexyl)phthalate	149	8.583	8.583 (0.985)	292226	40.0000	42.6
94 Di-n-octylphthalate	149	9.140	9.140 (0.893)	455862	40.0000	46.8
95 Benzo(b)fluoranthene	252	9.749	9.749 (0.952)	331736	40.0000	43.2
96 Benzo(k)fluoranthene	252	9.781	9.781 (0.956)	302936	40.0000	39.0
97 Benzo(a)pyrene	252	10.166	10.166 (0.993)	264387	40.0000	40.2
99 Indeno(1,2,3-cd)pyrene	276	11.953	11.953 (1.168)	255959	40.0000	43.4 (H)
100 Dibenzo(a,h)anthracene	278	11.958	11.958 (1.168)	215178	40.0000	44.3
101 Benzo(ghi)perylene	276	12.482	12.482 (1.219)	208092	40.0000	42.8 (H)
126 m-Dinitrobenzene	168	5.834	5.834 (0.968)	52481	40.0000	35.1
130 2,3,4,6-Tetrachlorophenol	232	6.235	6.235 (1.035)	78847	40.0000	48.1
143 Dinoseb	211	6.968	6.968 (0.993)	62742	40.0000	36.7
173 Carbazole	167	7.150	7.150 (1.019)	247572	40.0000	29.1
184 p-Benzoquinone	54	3.395	3.395 (0.870)	13910	40.0000	49.6
192 Methoxychlor	227	8.567	8.567 (0.983)	191735	40.0000	41.9
211 p-Toluidine	106	4.181	4.181 (1.071)	202012	40.0000	42.2
210 m-Toluidine	106	4.203	4.203 (1.077)	237643	40.0000	40.2
215 2-Ethoxyethanol	59	2.251	2.251 (0.577)	99689	40.0000	47.1
179 Dibenzo(a,e)pyrene	302	16.574	16.574 (1.619)	112398	40.0000	49.8 (H)
26 Phthalic anhydride	104	5.305	5.305 (1.112)	43325	40.0000	45.2
214 1,4-Dinitrobenzene	75	5.775	5.775 (0.958)	75060	40.0000	48.2
216 Methylenebis(2-chloroaniline)	231	8.631	8.631 (0.990)	45290	40.0000	37.9
M 222 Trichlorophenols	196			185399	80.0000	89.2
M 223 Tetrachlorophenols	232			78847	40.0000	48.1
M 224 Benzo(b,k)fluoranthene	252			634672	80.0000	82.1

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: /chem/MSD4.1/5022110a.b/sdb2106.d
 Date: 21-FEB-2010 11:34
 Client ID: MEGACVS
 Sample Info: IABN100215-09.41CVS111SYMF11MEGACVS
 Column phase: 3M DB-SHS

Instrument: MSD4.1
 Operator: JHB3
 Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 21-FEB-2010 12:02
Lab File ID: s4b2107.d Init. Cal. Date(s): 16-FEB-2010 17-FEB-2010
Analysis Type: Init. Cal. Times: 10:08 20:54
Lab Sample ID: WBN100218-05.3 Quant Type: ISTD
Method: /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
209 Benzaldehyde	0.85795	1.09218	1.09218	0.000	27.30192	60.00000	Averaged
16 Acetophenone	1.21136	1.39920	1.39920	0.000	15.50607	60.00000	Averaged
189 Caprolactam	0.09106	0.09719	0.09719	0.000	6.73443	60.00000	Averaged
208 1,1'-Biphenyl	1.13159	1.14457	1.14457	0.000	1.14656	60.00000	Averaged
207 Atrazine	0.04652	0.03976	0.03976	0.000	-14.53061	60.00000	Averaged
77 Benzidine	0.30518	0.16284	0.16284	0.000	-46.64134	60.00000	Averaged
90 3,3'-Dichlorobenzidine	0.26870	0.25505	0.25505	0.000	-5.08030	60.00000	Averaged
102 1,4-Dioxane	0.41759	0.43393	0.43393	0.000	3.91384	60.00000	Averaged
103 Methyl methacrylate	0.20750	0.21510	0.21510	0.000	3.66250	60.00000	Averaged
104 Ethyl methacrylate	0.85622	0.99928	0.99928	0.000	16.70833	60.00000	Averaged
105 2-Picoline	1.37151	1.48918	1.48918	0.000	8.57941	60.00000	Averaged
106 N-Nitrosomethylethylamine	0.59363	0.59117	0.59117	0.000	-0.41480	60.00000	Averaged
107 Methyl methanesulfonate	0.43779	0.54581	0.54581	0.000	24.67335	60.00000	Averaged
108 N-Nitrosodiethylamine	0.58762	0.59040	0.59040	0.000	0.47267	60.00000	Averaged
109 Ethyl Methanesulfonate	0.69655	0.76617	0.76617	0.000	9.99467	60.00000	Averaged
110 Pentachloroethane	0.29093	0.29748	0.29748	0.000	2.25137	60.00000	Averaged
111 N-Nitrosopyrrolidine	0.58368	0.64398	0.64398	0.000	10.32963	60.00000	Averaged
113 N-Nitrosomorpholine	0.48127	0.63466	0.63466	0.000	31.87200	60.00000	Averaged
114 o-Toluidine	1.83778	2.02183	2.02183	0.000	10.01484	60.00000	Averaged
115 N-Nitrosopiperidine	0.15881	0.15417	0.15417	0.000	-2.91603	60.00000	Averaged
116 a,a-Dimethylphenethylamine	0.70536	0.80013	0.80013	0.000	13.43474	60.00000	Averaged
118 2,6-Dichlorophenol	0.20017	0.21124	0.21124	0.000	5.53464	60.00000	Averaged
119 Hexachloropropene	44.13692	40.00000	0.99224	0.000	10.34229	60.00000	Linear
120 p-Phenylenediamine	0.23280	0.25024	0.25024	0.000	7.49179	60.00000	Averaged
121 N-Nitrosodi-n-butylamine	0.20854	0.22634	0.22634	0.000	8.53603	60.00000	Averaged
122 Saffrole	0.18358	0.18613	0.18613	0.000	1.38871	60.00000	Averaged
123 1,2,4,5-Tetrachlorobenzene	0.36842	0.38922	0.38922	0.000	5.64577	60.00000	Averaged
124 Isosafrole	0.35193	0.33408	0.33408	0.000	-5.07378	60.00000	Averaged
125 1,4-Naphthoquinone	0.31478	0.30557	0.30557	0.000	-2.92498	60.00000	Averaged
127 Pentachlorobenzene	0.32751	0.35968	0.35968	0.000	9.82288	60.00000	Averaged
128 1-Naphthylamine	0.88383	0.83339	0.83339	0.000	-5.70699	60.00000	Averaged
129 2-Naphthylamine	0.93409	0.85641	0.85641	0.000	-8.31614	60.00000	Averaged
131 5-Nitro-o-toluidine	0.27364	0.26077	0.26077	0.000	-4.70619	60.00000	Averaged
136 1,3,5-Trinitrobenzene	45.52856	40.00000	0.12530	0.000	13.82140	60.00000	Linear
137 Phenacetin	0.27663	0.30730	0.30730	0.000	11.08415	60.00000	Averaged
138 Diallate	0.31999	0.32407	0.32407	0.000	1.27460	60.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 21-FEB-2010 12:02
 Lab File ID: s4b2107.d Init. Cal. Date(s): 16-FEB-2010 17-FEB-2010
 Analysis Type: Init. Cal. Times: 10:08 20:54
 Lab Sample ID: WBN100218-05.3 Quant Type: ISTD
 Method: /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m

COMPOUND	RRF / AMOUNT	RF40	CCAL	MIN	MAX	CURVE TYPE
212 Cis Diallate	0.35497	0.33024	0.33024	0.000	-6.96665	Averaged
213 Trans Diallate	0.37646	0.38125	0.38125	0.000	1.27460	Averaged
140 4-Aminobiphenyl	0.49579	0.50407	0.50407	0.000	1.66914	Averaged
141 Pentachloronitrobenzene	0.05299	0.06944	0.06944	0.000	31.03763	Averaged
142 Pronamide	0.22112	0.24989	0.24989	0.000	13.00611	Averaged
146 4-Nitroquinoline-1-oxide	0.01286	0.00735	0.00735	0.000	-42.84533	Averaged
147 Methapyrilene	0.32789	0.36366	0.36366	0.000	10.90910	Averaged
148 Isodrin	0.09685	0.08949	0.08949	0.000	-7.60546	Averaged
149 Aramite	0.05097	0.04610	0.04610	0.000	-9.55686	Averaged
150 Kepone	0.07421	0.06521	0.06521	0.000	-12.13634	Averaged
151 p-(Dimethylamino)azobenzene	0.32064	0.30694	0.30694	0.000	-4.27337	Averaged
152 Chlorobenzilate	0.29648	0.32777	0.32777	0.000	10.55313	Averaged
153 3,3'-Dimethylbenzidine	0.45577	0.38828	0.38828	0.000	-14.80689	Averaged
155 2-Acetylaminofluorene	0.27068	0.28870	0.28870	0.000	6.65605	Averaged
157 7,12Dimethylbenz(a)anthrace	0.42890	0.46291	0.46291	0.000	7.93025	Averaged
158 3-Methylcholanthrene	0.37631	0.34739	0.34739	0.000	-7.68458	Averaged

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Data file : /chem/MSD4.i/s022110a.b/s4b2107.d
 Lab Smp Id: WBN100218-05.3 Client Smp ID: APCVS
 Inj Date : 21-FEB-2010 12:02
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |WBN100218-05.3|CVS|1|SVMF|1|APCVS
 Misc Info : |MSD8270|WBN100205-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
 Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
 Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AP12.sub
 Target Version: 3.50

Compounds	QUANT SIG				AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)
						ON-COL (ng/ul)
=====	=====	---	-----	-----	=====	=====
* 10 1,4-Dichlorobenzene-d4	152	3.903	3.903	(1.000)	131328	40.0000
* 29 Naphthalene-d8	136	4.770	4.770	(1.000)	498947	40.0000
* 46 Acenaphthene-d10	164	6.021	6.027	(1.000)	278369	40.0000
* 67 Phenanthrene-d10	188	7.016	7.016	(1.000)	449173	40.0000
* 91 Chrysene-d12	240	8.696	8.717	(1.000)	354106	40.0000
* 98 Perylene-d12	264	10.209	10.236	(1.000)	262032	40.0000
209 Benzaldehyde	77	3.630	3.630	(0.930)	143434	40.0000 50.9
16 Acetophenone	105	4.155	4.155	(1.064)	183754	40.0000 46.2
189 Caprolactam	113	5.048	5.048	(1.058)	48495	40.0000 42.7(H)
208 1,1'-Biphenyl	154	5.593	5.593	(0.929)	318612	40.0000 40.4
207 Atrazine	173	6.781	6.781	(0.966)	17860	40.0000 34.2
77 Benzidine	184	7.797	7.797	(0.897)	57662	40.0000 21.3
90 3,3'-Dichlorobenzidine	252	8.626	8.626	(0.992)	90315	40.0000 38.0
102 1,4-Dioxane	88	2.250	2.250	(0.577)	56987	40.0000 41.6
103 Methyl methacrylate	100	2.245	2.245	(0.575)	28249	40.0000 41.5
104 Ethyl methacrylate	69	2.609	2.609	(0.668)	131234	40.0000 46.7
105 2-Picoline	93	2.807	2.807	(0.719)	195571	40.0000 43.4
106 N-Nitrosomethylethylamine	88	2.844	2.844	(0.729)	77637	40.0000 39.8
107 Methyl methanesulfonate	80	3.005	3.005	(0.770)	71680	40.0000 49.9
108 N-Nitrosodiethylamine	102	3.235	3.235	(0.829)	77536	40.0000 40.2
109 Ethyl Methanesulfonate	79	3.390	3.390	(0.868)	100619	40.0000 44.0
110 Pentachloroethane	167	3.727	3.727	(0.955)	39067	40.0000 40.9
111 N-Nitrosopyrrolidine	100	4.144	4.144	(1.062)	84572	40.0000 44.1
113 N-Nitrosomorpholine	56	4.165	4.165	(1.067)	83348	40.0000 52.7(H)
114 o-Toluidine	106	4.181	4.181	(1.071)	265523	40.0000 44.0
115 N-Nitrosopiperidine	114	4.379	4.379	(0.918)	76925	40.0000 38.8
116 a,a-Dimethylphenethylamine	58	4.631	4.631	(0.971)	399221	40.0000 45.4

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====	=====
118 2,6-Dichlorophenol	162	4.812	4.812	(1.009)	105400	40.0000	42.2
119 Hexachloropropene	213	4.839	4.839	(1.015)	46023	40.0000	44.1
120 p-Phenylenediamine	108	5.053	5.053	(1.059)	124855	40.0000	43.0
121 N-Nitrosodi-n-butylamine	84	5.010	5.010	(1.050)	112931	40.0000	43.4 (H)
122 Safrole	162	5.182	5.182	(1.086)	92871	40.0000	40.6
123 1,2,4,5-Tetrachlorobenzene	216	5.385	5.385	(0.894)	108346	40.0000	42.2
124 Isosafrole	162	5.551	5.551	(0.922)	92997	40.0000	38.0
125 1,4-Naphthoquinone	158	5.743	5.743	(0.954)	85062	40.0000	38.8
127 Pentachlorobenzene	250	6.128	6.128	(1.018)	100125	40.0000	43.9
128 1-Naphthylamine	143	6.214	6.214	(1.032)	231991	40.0000	37.7 (H)
129 2-Naphthylamine	143	6.267	6.267	(1.041)	238399	40.0000	36.7
131 5-Nitro-o-toluidine	152	6.390	6.390	(1.061)	72589	40.0000	38.1
136 1,3,5-Trinitrobenzene	75	6.610	6.610	(0.942)	56280	40.0000	45.5
137 Phenacetin	108	6.642	6.642	(0.947)	138029	40.0000	44.4 (Q)
138 Diallylate	86	6.626	6.626	(0.944)	145562	40.0000	40.5
212 Cis Diallylate	86	6.690	6.690	(0.953)	22250	6.00000	5.6
213 Trans Diallylate	86	6.626	6.626	(0.944)	145562	34.0000	34.4
140 4-Aminobiphenyl	169	6.872	6.872	(0.979)	226413	40.0000	40.7
141 Pentachloronitrobenzene	237	6.882	6.882	(0.981)	31192	40.0000	52.4 (Q)
142 Pronamide	173	6.877	6.877	(0.980)	112246	40.0000	45.2
146 4-Nitroquinoline-1-oxide	101	7.487	7.487	(1.067)	3302	40.0000	22.9
147 Methapyrilene	58	7.497	7.497	(1.069)	163348	40.0000	44.4
148 Isodrin	193	7.658	7.658	(1.091)	40195	40.0000	37.0 (H)
149 Aramite	185	7.888	7.888	(1.124)	20706	40.0000	36.2 (H)
150 Kepone	272	8.310	8.310	(1.184)	29289	40.0000	35.1
151 p-(Dimethylamino)azobenzene	120	8.011	8.011	(0.921)	108689	40.0000	38.3
152 Chlorobenzilate	251	8.027	8.027	(0.923)	116065	40.0000	44.2
153 3,3'-Dimethylbenzidine	212	8.225	8.225	(0.946)	137493	40.0000	34.1
155 2-Acetylaminofluorene	181	8.407	8.407	(0.967)	102229	40.0000	42.7
157 1,12Dimethylbenz(a)anthracene	256	9.696	9.696	(0.950)	121298	40.0000	43.2
158 3-Methylcholanthrene	268	10.584	10.584	(1.037)	91027	40.0000	36.9

QC Flag Legend

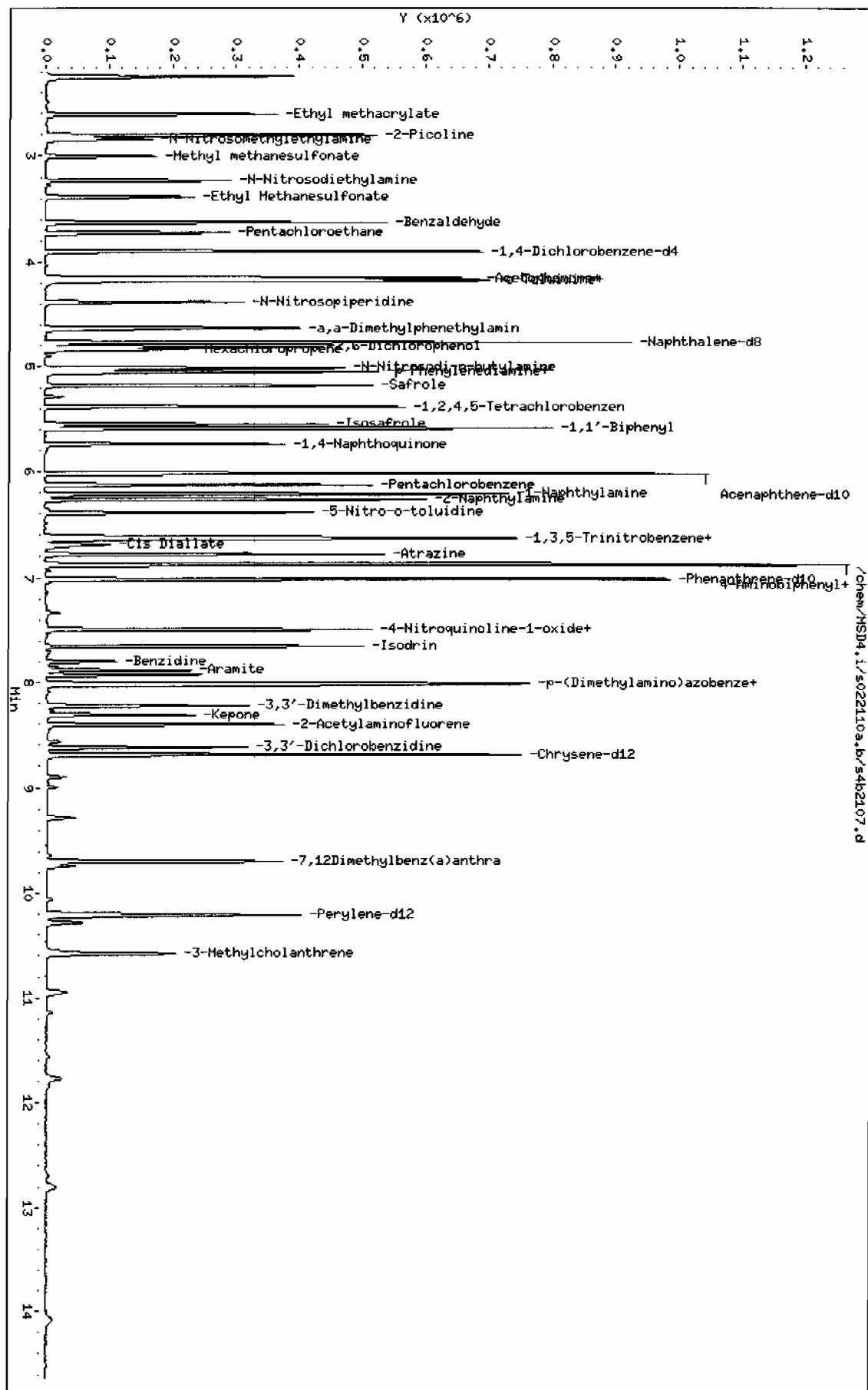
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: /chem/MSD4.i/s022110a.b/s4b2107.d
 Date: 21-FEB-2010 12:02
 Client ID: APCVS
 Sample Info: IUN400218-05.31CWS111SVNF111APCVS

Column phase: J&W DB-5MS

Instrument: MSD4.i
 Operator: JHB3
 Column diameter: 0.20

Page 1



QC Data

Data File: /chem/MSD4.i/s021610.b/s4b1603.d

Page 1

Date : 16-FEB-2010 09:30

Client ID: DFTPP

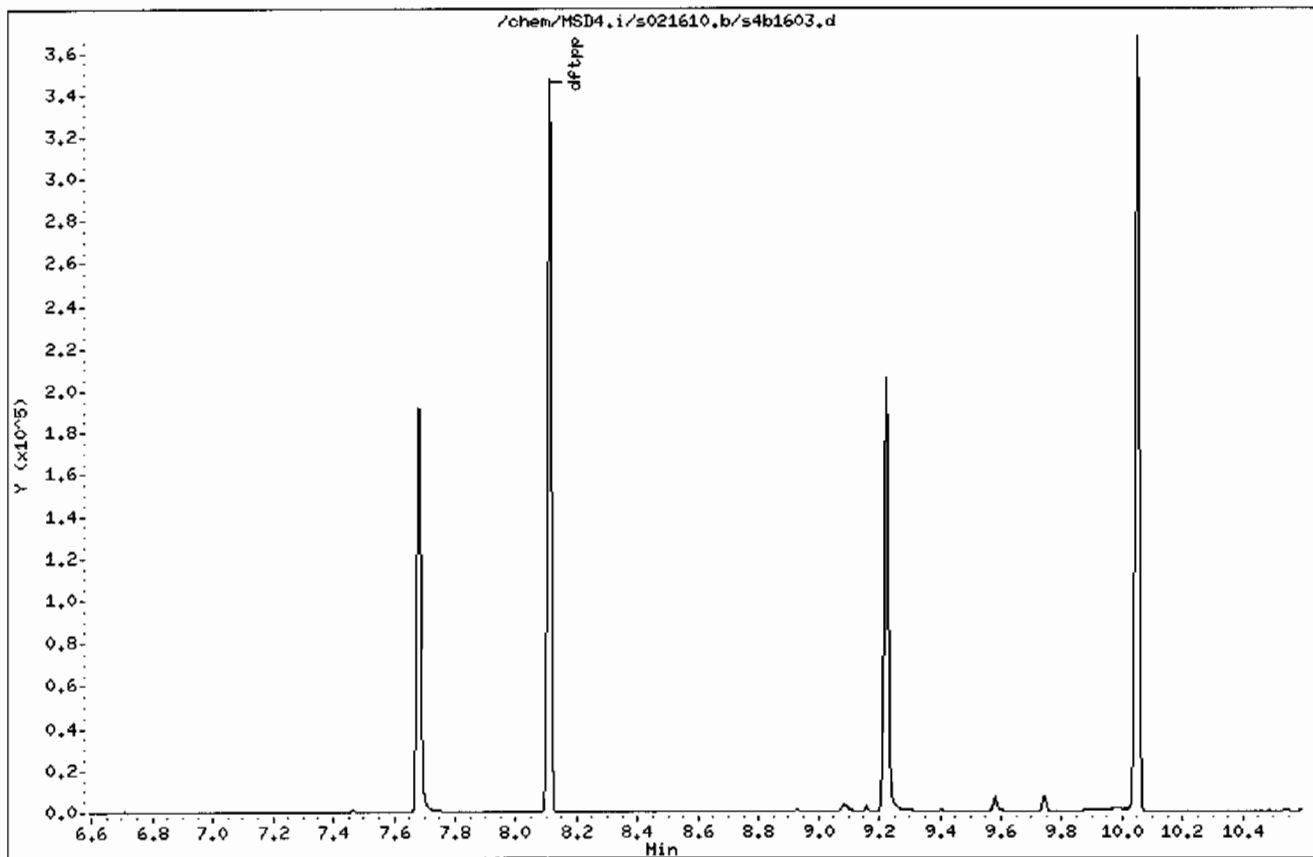
Instrument: MSD4.i

Sample Info: IWBNI00207-01IDFTPP11ISVMF11IDFTPP

Operator: JHB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20



Date : 16-FEB-2010 09:30

Client ID: DFTPP

Instrument: MSD4.i

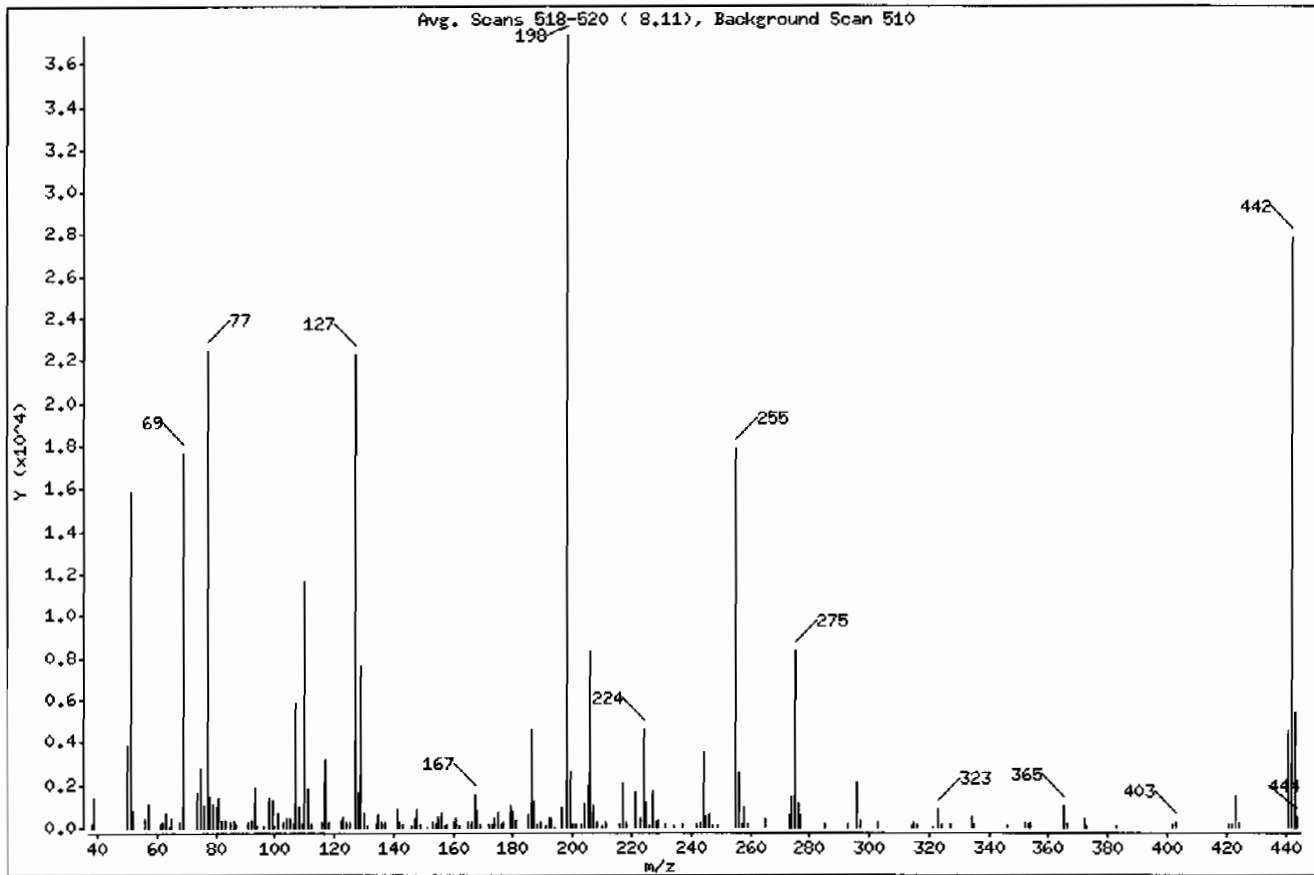
Sample Info: IWBNI00207-01.DFTPP11SVMF11.DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	42.52
68	Less than 2.00% of mass 69	0.69 (1.45)
69	Mass 69 relative abundance	47.41
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	59.85
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.88
275	10.00 - 30.00% of mass 198	22.19
365	Greater than 1.00% of mass 198	2.82
441	Present, but less than mass 443	12.14
442	Greater than 40.00% of mass 198	74.81
443	17.00 - 23.00% of mass 442	14.43 (19.29)

Date : 16-FEB-2010 09:30

Client ID: DFTPP

Instrument: MSD4.i

Sample Info: IWBNI00207-01IDFTPP11SVMF11IDFTPP

Operator: JHB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0,20

Data File: s4b1603.d

Spectrum: Avg. Scans 518-520 (8,11), Background Scan 510

Location of Maximum: 198,00

Number of points: 180

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38,00	162	116,00	269	181,00	377	257,00	167
39,00	1340	117,00	3138	185,00	568	258,00	949
50,00	3842	118,00	217	186,00	4658	259,00	145
51,00	15863	122,00	347	187,00	1231	265,00	433
52,00	778	123,00	514	188,00	141	273,00	559
56,00	426	124,00	241	189,00	221	274,00	1488
57,00	1130	125,00	237	191,00	84	275,00	8278
61,00	177	127,00	22328	192,00	406	276,00	1148
62,00	252	128,00	1630	193,00	400	277,00	620
63,00	700	129,00	7646	194,00	33	285,00	146
64,00	35	130,00	699	196,00	976	293,00	148
65,00	402	131,00	77	198,00	37304	296,00	2173
68,00	256	134,00	159	199,00	2566	297,00	302
69,00	17688	135,00	609	200,00	207	303,00	280
74,00	1648	136,00	217	201,00	153	314,00	75
75,00	2721	137,00	274	203,00	195	315,00	229
76,00	1009	141,00	826	204,00	1109	316,00	151
77,00	22472	142,00	261	205,00	1971	321,00	34
78,00	1474	143,00	213	206,00	8360	323,00	840
79,00	1130	146,00	119	207,00	1036	324,00	159
80,00	937	147,00	410	208,00	222	327,00	145
81,00	1382	148,00	851	210,00	107	334,00	483
82,00	326	149,00	175	211,00	275	335,00	130
83,00	337	151,00	34	216,00	137	346,00	123
85,00	227	153,00	294	217,00	2031	352,00	230
86,00	342	154,00	209	218,00	259	353,00	146
87,00	148	155,00	499	221,00	1619	354,00	273
91,00	258	156,00	726	223,00	422	365,00	1053
92,00	309	157,00	114	224,00	4667	366,00	146
93,00	1849	158,00	171	225,00	1164	372,00	435
94,00	128	160,00	266	226,00	69	373,00	124
96,00	71	161,00	412	227,00	1705	383,00	123
98,00	1340	162,00	71	228,00	216	402,00	206
99,00	1312	165,00	262	229,00	355	403,00	220
100,00	116	166,00	275	231,00	146	421,00	210

Date : 16-FEB-2010 09:30

Client ID: DFTPP

Instrument: MSD4.i

Sample Info: IWBH100207-011DFTPP11SVHF111DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s4b1603.d

Spectrum: Avg. Scans 518-520 (8.11), Background Scan 510

Location of Maximum: 198.00

Number of points: 180

m/z	Y	m/z	Y	m/z	Y	m/z	Y
101.00	722	167.00	1525	234.00	77	422.00	196
103.00	222	168.00	746	237.00	130	423.00	1452
104.00	463	169.00	156	242.00	198	424.00	291
105.00	453	172.00	132	243.00	229	441.00	4531
106.00	149	173.00	195	244.00	3540	442.00	27904
107.00	5852	174.00	394	245.00	499	443.00	5383
108.00	913	175.00	678	246.00	576	444.00	500
109.00	143	176.00	161	247.00	123		
110.00	11683	177.00	286	249.00	113		
111.00	1762	179.00	1069	255.00	17856		
112.00	180	180.00	775	256.00	2648		

Data File: /chem/MSD4.i/s021710,b/s4b1702.d

Page 1

Date : 17-FEB-2010 17:07

Client ID: DFTPP

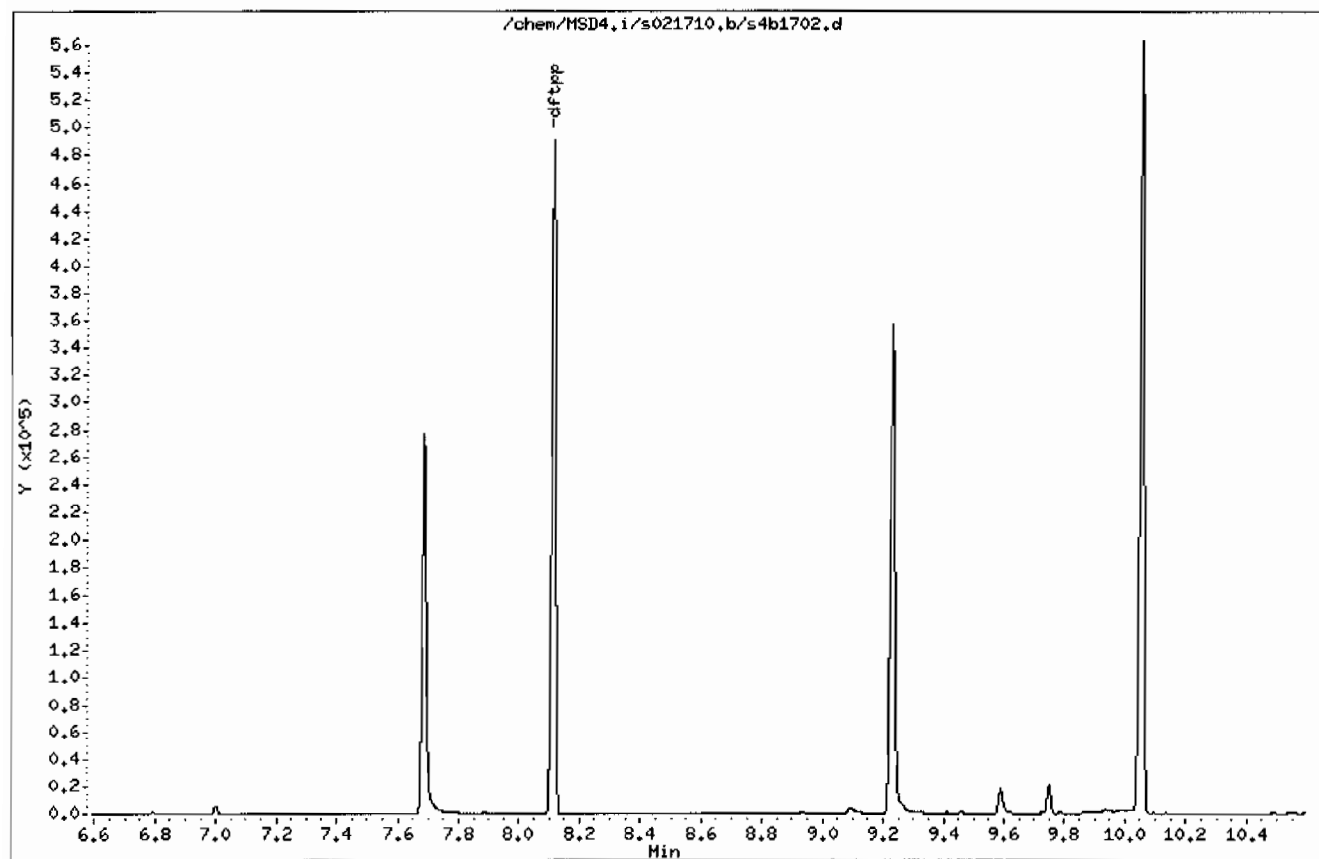
Instrument: MSD4.i

Sample Info: INEN100207-01|DFTPP|1|SVHF|1|DFTPP

Operator: JHB3

Column phase: Phenomenex ZB-SMS

Column diameter: 0.20



Date : 17-FEB-2010 17:07

Client ID: DFTPP

Instrument: MSD4.i

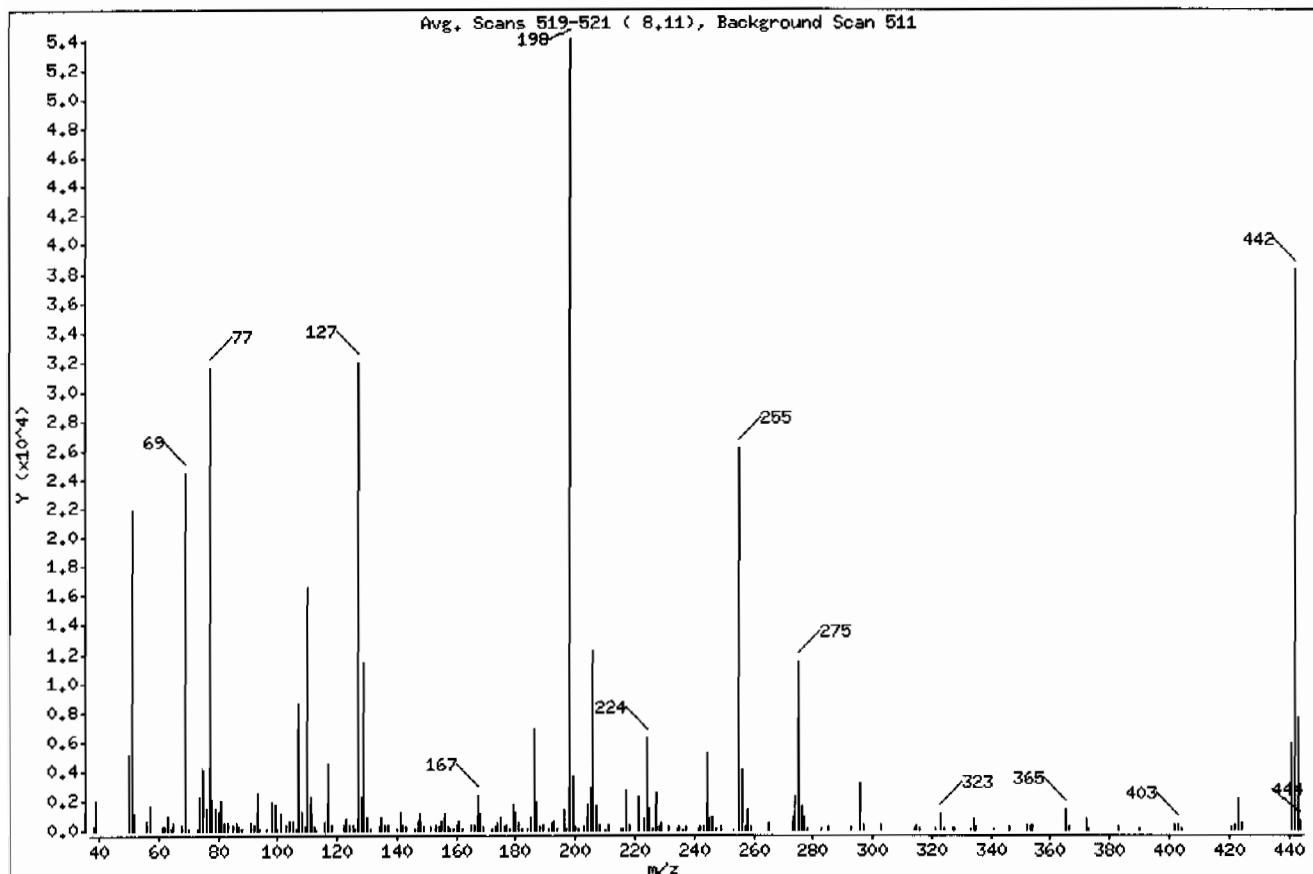
Sample Info: INBH100207-01\DFTPP1\SVMF11\DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	40.39
68	Less than 2.00% of mass 69	0.59 (1.30)
69	Mass 69 relative abundance	45.37
70	Less than 2.00% of mass 69	0.26 (0.58)
127	40.00 - 60.00% of mass 198	58.97
197	Less than 1.00% of mass 198	0.27
199	5.00 - 9.00% of mass 198	6.77
275	10.00 - 30.00% of mass 198	21.23
365	Greater than 1.00% of mass 198	2.63
441	Present, but less than mass 442	10.85
442	Greater than 40.00% of mass 198	70.65
443	17.00 - 23.00% of mass 442	13.99 (19.80)

Date : 17-FEB-2010 17:07

Client ID: DFTPP

Instrument: HSD4.i

Sample Info: IWBNI00207-01IDFTPP1ISVMFI1IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s4b1702.d

Spectrum: Avg. Scans 519-521 (8.11), Background Scan 511

Location of Maximum: 198.00

Number of points: 203

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	273	117.00	4500	184.00	95	256.00	4065
39.00	1948	118.00	354	185.00	813	257.00	286
50.00	5065	122.00	366	186.00	6841	258.00	1309
51.00	21856	123.00	744	187.00	1873	259.00	222
52.00	1077	124.00	372	188.00	191	265.00	528
56.00	680	125.00	386	189.00	316	273.00	830
57.00	1583	126.00	77	191.00	167	274.00	2267
61.00	268	127.00	31912	192.00	497	275.00	11487
62.00	283	128.00	2244	193.00	666	276.00	1569
63.00	980	129.00	11391	194.00	140	277.00	829
64.00	79	130.00	836	196.00	1325	278.00	90
65.00	517	131.00	174	197.00	147	283.00	79
68.00	319	134.00	247	198.00	54112	285.00	203
69.00	24552	135.00	896	199.00	3662	293.00	223
70.00	142	136.00	315	200.00	272	296.00	3115
73.00	142	137.00	420	201.00	155	297.00	419
74.00	2216	140.00	118	203.00	228	303.00	314
75.00	4139	141.00	1206	204.00	1730	314.00	185
76.00	1437	142.00	422	205.00	2848	315.00	326
77.00	31616	143.00	263	206.00	12246	316.00	185
78.00	2079	146.00	178	207.00	1625	321.00	153
79.00	1551	147.00	605	208.00	339	323.00	1162
80.00	1297	148.00	1132	210.00	35	324.00	167
81.00	2040	149.00	283	211.00	386	327.00	179
82.00	476	151.00	205	215.00	72	328.00	105
83.00	520	153.00	372	216.00	183	333.00	127
85.00	317	154.00	270	217.00	2788	334.00	781
86.00	453	155.00	678	218.00	347	335.00	196
87.00	215	156.00	1105	221.00	2216	341.00	150
88.00	122	157.00	226	223.00	715	346.00	252
91.00	460	158.00	153	224.00	6281	352.00	396
92.00	427	159.00	167	225.00	1548	353.00	276
93.00	2485	160.00	384	226.00	98	354.00	371
94.00	185	161.00	607	227.00	2510	365.00	1422
96.00	168	162.00	186	228.00	287	366.00	218

Date : 17-FEB-2010 17:07

Client ID: DFTPP

Instrument: HSD4.i

Sample Info: IWBNI00207-01IDFTPP11SVMF11IDFTPP

Operator: JHB3

Column phase: Phenomenex ZB-5HS

Column diameter: 0.20

Data File: s4b1702.d

Spectrum: Avg. Scans 519-521 (8.11), Background Scan 511

Location of Maximum: 198.00

Number of points: 203

m/z	Y	m/z	Y	m/z	Y	m/z	Y
98.00	1903	165.00	430	229.00	474	372.00	691
99.00	1773	166.00	356	231.00	201	373.00	110
100.00	130	167.00	2388	234.00	91	383.00	208
101.00	1060	168.00	1093	235.00	188	390.00	71
103.00	322	169.00	221	236.00	34	402.00	329
104.00	610	172.00	170	237.00	192	403.00	356
105.00	610	173.00	258	241.00	126	404.00	81
106.00	174	174.00	465	242.00	262	421.00	299
107.00	8596	175.00	909	243.00	275	422.00	353
108.00	1231	176.00	290	244.00	5265	423.00	2137
109.00	242	177.00	367	245.00	695	424.00	533
110.00	16544	178.00	70	246.00	834	441.00	5874
111.00	2209	179.00	1698	247.00	173	442.00	38232
112.00	292	180.00	1183	249.00	194	443.00	7570
113.00	34	181.00	556	253.00	33	444.00	664
116.00	438	182.00	81	255.00	26152		

Data File: /chem/MSD4.i/s022010.b/s4b2011.d

Page 1

Date : 20-FEB-2010 14:19

Client ID: DFTPP

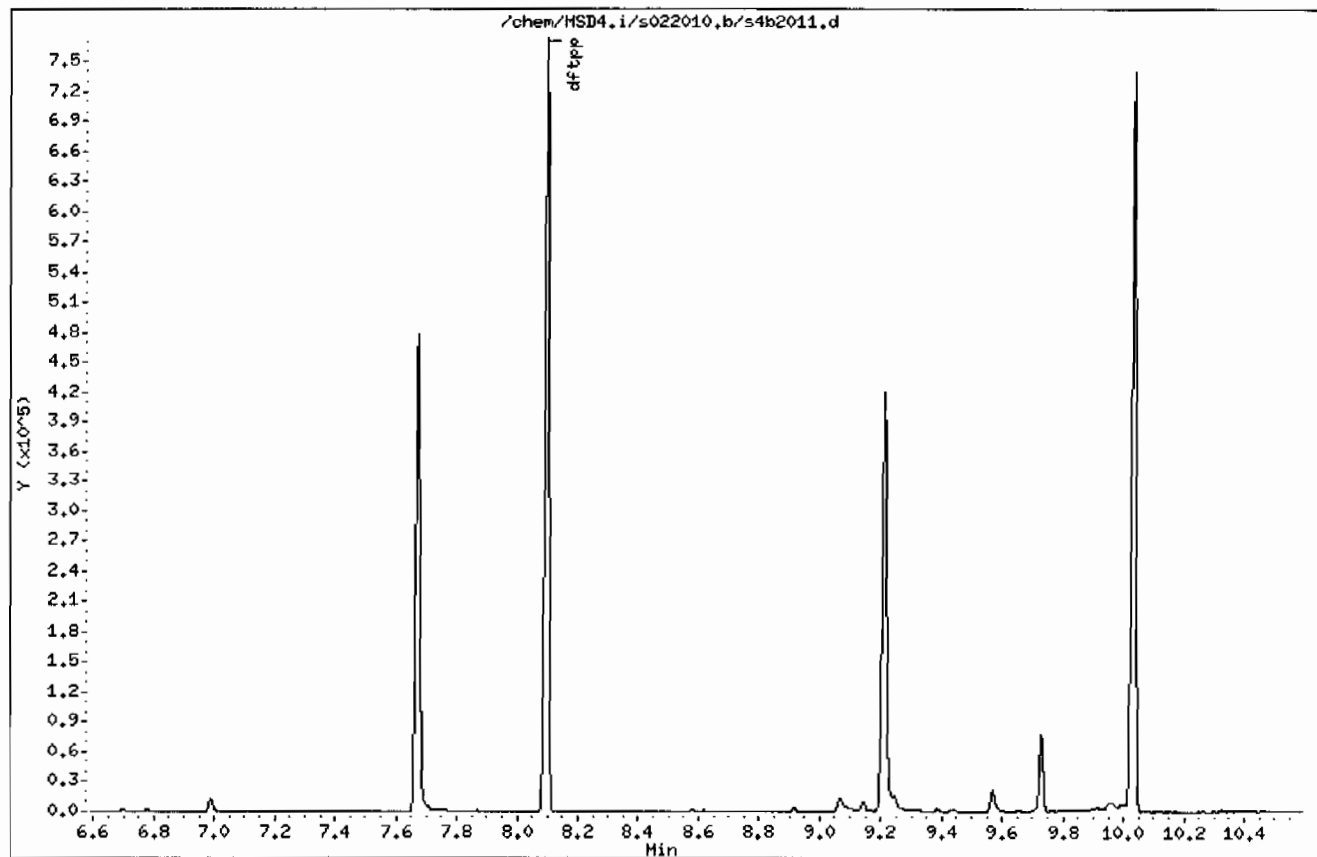
Instrument: MSD4.i

Sample Info: IWBH100207-01|DFTPP|1|SVHF|1|DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0,20



Date : 20-FEB-2010 14:19

Client ID: DFTPP

Instrument: MSD4.i

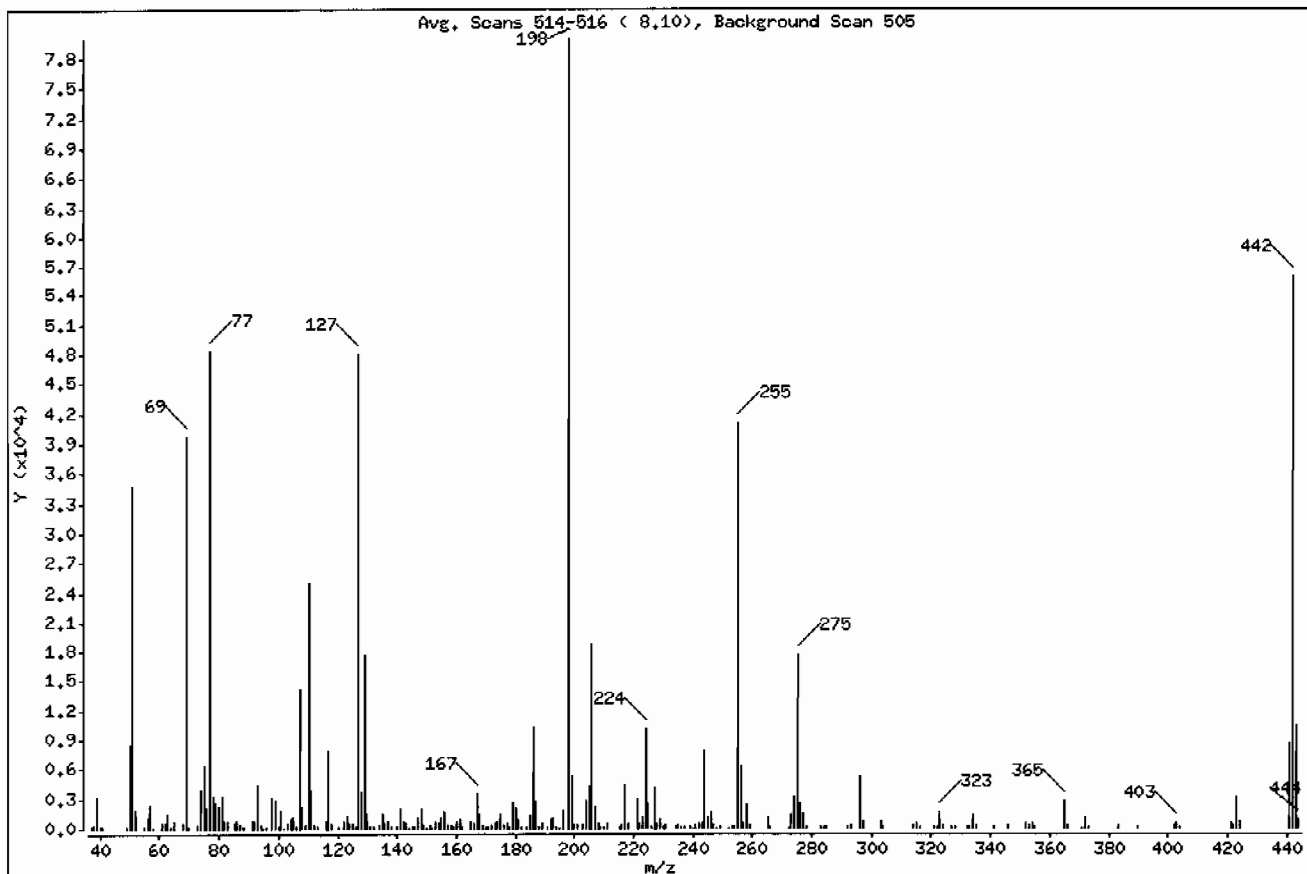
Sample Info: INBN100207-011DFTPP11ISVMF111DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	43.51
68	Less than 2.00% of mass 69	0.75 (1.50)
69	Mass 69 relative abundance	49.65
70	Less than 2.00% of mass 69	0.17 (0.35)
127	40.00 - 60.00% of mass 198	59.94
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.74
275	10.00 - 30.00% of mass 198	22.05
365	Greater than 1.00% of mass 198	3.37
441	Present, but less than mass 443	10.79
442	Greater than 40.00% of mass 198	69.95
443	17.00 - 23.00% of mass 442	13.02 (18.61)

Date : 20-FEB-2010 14:19

Client ID: DFTPP

Instrument: HSD4.i

Sample Info: IWBNI00207-01|DFTPP1|SVMF1|DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s4b2011.d

Spectrum: Avg. Scans 514-516 (8.10), Background Scan 505

Location of Maximum: 198.00

Number of points: 237

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	107	118.00	590	185.00	1362	258.00	2316
38.00	393	120.00	179	186.00	10301	259.00	276
39.00	3121	122.00	805	187.00	2686	265.00	1013
40.00	135	123.00	1267	188.00	246	266.00	145
41.00	137	124.00	572	189.00	620	272.00	91
49.00	223	125.00	586	191.00	274	273.00	1235
50.00	8414	126.00	129	192.00	928	274.00	3093
51.00	34816	127.00	47976	193.00	1079	275.00	17648
52.00	1886	128.00	3716	194.00	163	276.00	2520
55.00	117	129.00	17736	195.00	90	277.00	1475
56.00	1047	130.00	1459	196.00	1900	278.00	232
57.00	2436	131.00	258	198.00	80032	283.00	174
58.00	79	132.00	208	199.00	5395	284.00	121
61.00	464	134.00	387	200.00	374	285.00	259
62.00	516	135.00	1557	201.00	313	292.00	155
63.00	1410	136.00	544	203.00	458	293.00	300
64.00	184	137.00	675	204.00	2747	296.00	5163
65.00	799	138.00	169	205.00	4162	297.00	706
68.00	598	140.00	178	206.00	18848	303.00	716
69.00	39736	141.00	1964	207.00	2263	304.00	140
70.00	140	142.00	739	208.00	518	314.00	301
73.00	395	143.00	544	209.00	176	315.00	554
74.00	3828	144.00	77	210.00	270	316.00	265
75.00	6353	145.00	97	211.00	628	321.00	157
76.00	2093	146.00	235	215.00	153	322.00	113
77.00	48472	147.00	1152	216.00	403	323.00	1704
78.00	3314	148.00	1987	217.00	4499	324.00	316
79.00	2515	149.00	423	218.00	592	327.00	231
80.00	2132	150.00	73	221.00	2862	328.00	186
81.00	3283	151.00	366	222.00	631	332.00	154
82.00	735	152.00	43	223.00	1026	333.00	186
83.00	801	153.00	660	224.00	10154	334.00	1327
85.00	582	154.00	487	225.00	2596	335.00	277
86.00	761	155.00	1130	226.00	239	341.00	228
87.00	406	156.00	1611	227.00	4096	346.00	396

Date : 20-FEB-2010 14:19

Client ID: DFTPP

Instrument: MSD4.i

Sample Info: IWBH100207-01IDFTPP11SVHF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s4b2011.d

Spectrum: Avg. Scans 514-516 (8.10), Background Scan 505

Location of Maximum: 198.00

Number of points: 237

m/z	Y	m/z	Y	m/z	Y	m/z	Y
88.00	173	157.00	304	228.00	482	352.00	557
91.00	764	158.00	294	229.00	882	353.00	436
92.00	693	159.00	239	230.00	110	354.00	631
93.00	4401	160.00	692	231.00	322	355.00	118
94.00	387	161.00	924	234.00	214	365.00	2700
95.00	79	162.00	272	235.00	279	366.00	388
96.00	251	165.00	719	236.00	177	371.00	91
98.00	3123	166.00	562	237.00	254	372.00	1014
99.00	2793	167.00	3556	239.00	127	373.00	219
100.00	244	168.00	1490	240.00	67	383.00	357
101.00	1778	169.00	405	241.00	303	390.00	120
102.00	38	170.00	144	242.00	544	402.00	444
103.00	473	171.00	158	243.00	466	403.00	621
104.00	1008	172.00	365	244.00	7919	404.00	247
105.00	1135	173.00	470	245.00	1057	421.00	480
106.00	252	174.00	776	246.00	1639	422.00	447
107.00	14081	175.00	1518	247.00	279	423.00	3212
108.00	2151	176.00	386	248.00	75	424.00	693
109.00	334	177.00	538	249.00	246	441.00	8636
110.00	24952	178.00	179	252.00	75	442.00	55984
111.00	3841	179.00	2650	253.00	116	443.00	10418
112.00	393	180.00	2010	254.00	180	444.00	992
113.00	114	181.00	891	255.00	41000		
116.00	697	182.00	127	256.00	6311		
117.00	7955	184.00	191	257.00	495		

Data File: /chem/HSD4.i/s022110a,b/s4b2105.d

Page 1

Date : 21-FEB-2010 11:21

Client ID: DFTPP

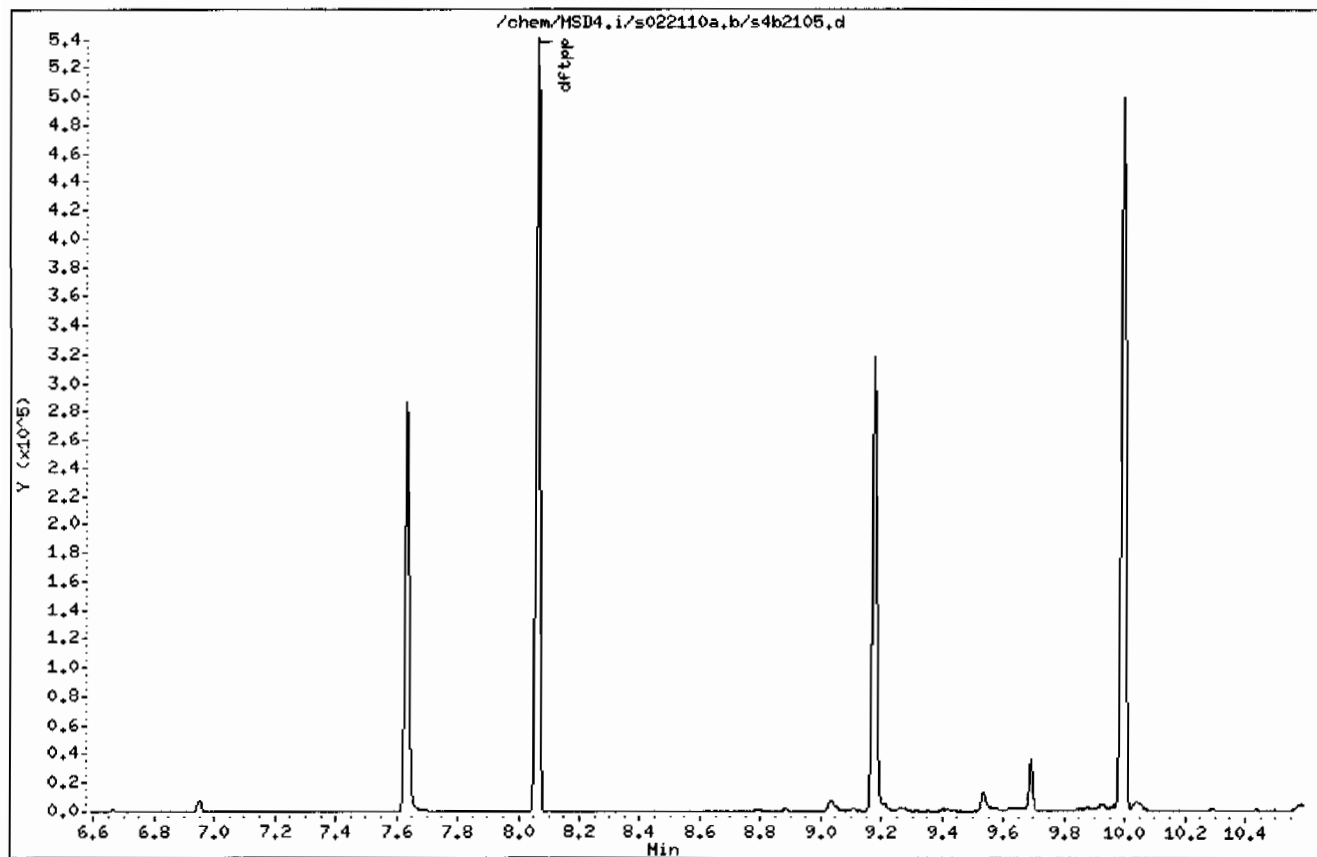
Instrument: HSD4.i

Sample Info: INBN100207-01IDFTPP11ISVMF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20



Date : 21-FEB-2010 11:21

Client ID: DFTPP

Instrument: MSD4.i

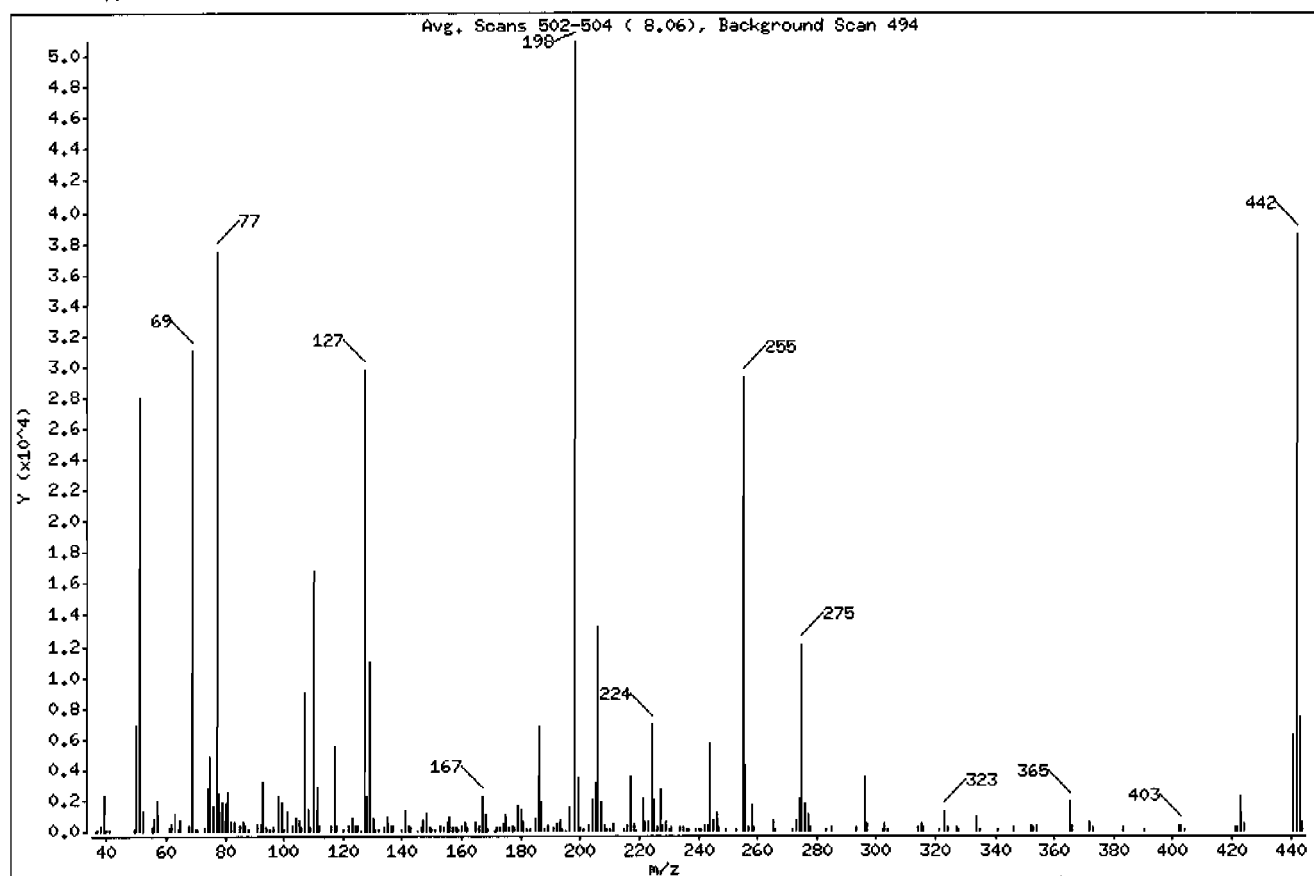
Sample Info: IWBNI00207-01IDFTPP11SVHF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	54.93
68	Less than 2.00% of mass 69	0.80 (1.31)
69	Mass 69 relative abundance	60.92
70	Less than 2.00% of mass 69	0.32 (0.52)
127	40.00 - 60.00% of mass 198	58.28
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.57
275	10.00 - 30.00% of mass 198	23.78
365	Greater than 1.00% of mass 198	3.60
441	Present, but less than mass 443	12.22
442	Greater than 40.00% of mass 198	75.52
443	17.00 - 23.00% of mass 442	14.55 (19.27)

Date : 21-FEB-2010 11:21

Client ID: DFTPP

Instrument: MSD4.i

Sample Info: IWBNI00207-01|DFTPP|1|SVMF|1|DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s4b2105.d

Spectrum: Avg. Scans 502-504 (8.06), Background Scan 494

Location of Maximum: 198.00

Number of points: 224

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	34	116.00	395	183.00	74	256.00	4273
37.00	71	117.00	5464	185.00	836	257.00	258
38.00	344	118.00	330	186.00	6802	258.00	1619
39.00	2389	120.00	138	187.00	1880	259.00	256
40.00	136	122.00	343	188.00	166	265.00	682
41.00	106	123.00	775	189.00	365	266.00	133
49.00	80	124.00	364	191.00	202	272.00	78
50.00	6909	125.00	317	192.00	510	273.00	742
51.00	27984	126.00	41	193.00	662	274.00	2094
52.00	1346	127.00	29696	194.00	146	275.00	12118
55.00	191	128.00	2238	195.00	33	276.00	1796
56.00	789	129.00	11007	196.00	1526	277.00	1064
57.00	2030	130.00	860	198.00	50952	278.00	187
61.00	292	131.00	153	199.00	3346	283.00	72
62.00	443	132.00	75	200.00	242	285.00	218
63.00	1133	134.00	260	201.00	173	293.00	200
64.00	168	135.00	890	203.00	335	296.00	3544
65.00	752	136.00	296	204.00	1997	297.00	527
68.00	408	137.00	374	205.00	2989	302.00	70
69.00	31040	140.00	127	206.00	13219	303.00	472
70.00	161	141.00	1302	207.00	1855	304.00	132
71.00	136	142.00	378	208.00	351	314.00	188
73.00	275	143.00	269	209.00	150	315.00	432
74.00	2840	145.00	37	210.00	127	316.00	261
75.00	4817	146.00	232	211.00	498	321.00	91
76.00	1612	147.00	677	215.00	69	323.00	1285
77.00	37496	148.00	1220	216.00	293	324.00	216
78.00	2465	149.00	253	217.00	3477	327.00	207
79.00	1882	150.00	119	218.00	462	328.00	124
80.00	1751	151.00	159	219.00	34	334.00	889
81.00	2568	153.00	389	221.00	2065	335.00	174
82.00	607	154.00	277	222.00	587	341.00	122
83.00	611	155.00	589	223.00	635	346.00	287
85.00	370	156.00	966	224.00	6918	352.00	307
86.00	594	157.00	198	225.00	1967	353.00	273

Date : 21-FEB-2010 11:21

Client ID: DFTPP

Instrument: MSD4.i

Sample Info: IWBNI00207-01IDFTPP11ISVMFI11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s4b2105.d

Spectrum: Avg. Scans 502-504 (8.06), Background Scan 494

Location of Maximum: 198.00

Number of points: 224

m/z	Y	m/z	Y	m/z	Y	m/z	Y
87.00	316	158.00	176	226.00	190	354.00	363
88.00	81	159.00	133	227.00	2731	365.00	1834
91.00	465	160.00	333	228.00	353	366.00	293
92.00	525	161.00	530	229.00	591	372.00	625
93.00	3132	162.00	188	230.00	124	373.00	201
94.00	245	165.00	529	231.00	255	383.00	196
95.00	70	166.00	399	234.00	218	390.00	72
96.00	178	167.00	2258	235.00	241	402.00	344
98.00	2187	168.00	1101	236.00	127	403.00	373
99.00	1919	169.00	155	237.00	151	404.00	155
100.00	166	171.00	33	239.00	119	421.00	241
101.00	1290	172.00	268	240.00	115	422.00	286
103.00	350	173.00	204	241.00	159	423.00	2239
104.00	784	174.00	440	242.00	340	424.00	454
105.00	669	175.00	1048	243.00	307	441.00	6227
106.00	266	176.00	271	244.00	5635	442.00	38480
107.00	8963	177.00	360	245.00	691	443.00	7414
108.00	1393	178.00	180	246.00	1185	444.00	587
109.00	209	179.00	1627	247.00	212		
110.00	16792	180.00	1357	249.00	167		
111.00	2763	181.00	633	253.00	137		
112.00	294	182.00	77	255.00	29272		

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620
Lab Sample ID: 1202040333
Client Sample: QC for batch 951987
Client ID: MB for batch 951987
Batch ID: 951989
Run Date: 02/20/2010 15:50
Prep Date: 02/11/2010 22:25
Data File: s4b2015-1.d

Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30 g
Column: J&W DB-5MS

Matrix: SOIL
Project: QC
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	333	ug/kg	66.7	333
108-95-2	Phenol	U	333	ug/kg	66.7	333
95-57-8	2-Chlorophenol	U	333	ug/kg	66.7	333
106-46-7	1,4-Dichlorobenzene	U	333	ug/kg	66.7	333
621-64-7	N-Nitrosodipropylamine	U	333	ug/kg	66.7	333
59-50-7	4-Chloro-3-methylphenol	U	333	ug/kg	66.7	333
83-32-9	Acenaphthene	U	33.3	ug/kg	11.0	33.3
121-14-2	2,4-Dinitrotoluene	U	333	ug/kg	33.3	333
100-02-7	4-Nitrophenol	U	333	ug/kg	110	333
87-86-5	Pentachlorophenol	U	333	ug/kg	83.3	333
129-00-0	Pyrene	U	33.3	ug/kg	10.0	33.3
110-86-1	Pyridine	U	333	ug/kg	66.7	333
62-53-3	Aniline	U	333	ug/kg	100	333
111-44-4	bis(2-Chloroethyl) ether	U	333	ug/kg	66.7	333
541-73-1	1,3-Dichlorobenzene	U	333	ug/kg	66.7	333
100-51-6	Benzyl alcohol	U	333	ug/kg	100	333
95-50-1	1,2-Dichlorobenzene	U	333	ug/kg	66.7	333
108-60-1	bis(2-Chloroisopropyl)ether	U	333	ug/kg	66.7	333
95-48-7	o-Cresol	U	333	ug/kg	66.7	333
65794-96-9	m,p-Cresols	U	333	ug/kg	100	333
67-72-1	Hexachloroethane	U	333	ug/kg	66.7	333
98-95-3	Nitrobenzene	U	333	ug/kg	66.7	333
78-59-1	Isophorone	U	333	ug/kg	66.7	333
88-75-5	2-Nitrophenol	U	333	ug/kg	66.7	333
105-67-9	2,4-Dimethylphenol	U	333	ug/kg	117	333
111-91-1	bis(2-Chloroethoxy)methane	U	333	ug/kg	66.7	333
120-83-2	2,4-Dichlorophenol	U	333	ug/kg	66.7	333
65-85-0	Benzoic acid	U	667	ug/kg	167	667
91-20-3	Naphthalene	U	33.3	ug/kg	10.0	33.3
106-47-8	4-Chloroaniline	U	333	ug/kg	66.7	333
87-68-3	Hexachlorobutadiene	U	333	ug/kg	66.7	333
91-57-6	2-Methylnaphthalene	U	33.3	ug/kg	6.67	33.3
77-47-4	Hexachlorocyclopentadiene	U	333	ug/kg	66.7	333
88-06-2	2,4,6-Trichlorophenol	U	333	ug/kg	66.7	333
95-95-4	2,4,5-Trichlorophenol	U	333	ug/kg	66.7	333
91-58-7	2-Chloronaphthalene	U	33.3	ug/kg	11.0	33.3
88-74-4	2-Nitroaniline	U	333	ug/kg	66.7	333
99-09-2	<i>o</i> -Nitroaniline					
	3-Nitroaniline	U	333	ug/kg	66.7	333

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620		Matrix: SOIL
Lab Sample ID: 1202040333		
Client Sample: QC for batch 951987	Client: LANL010	Project: QC
Client ID: MB for batch 951987	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/20/2010 15:50	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30 g	Final Volume: 1 mL
Data File: s4b2015-1.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	333	ug/kg	66.7	333
606-20-2	2,6-Dinitrotoluene	U	333	ug/kg	33.3	333
208-96-8	Acenaphthylene	U	33.3	ug/kg	10.0	33.3
51-28-5	2,4-Dinitrophenol	U	667	ug/kg	127	667
132-64-9	Dibenzofuran	U	333	ug/kg	66.7	333
84-66-2	Diethylphthalate	U	333	ug/kg	66.7	333
86-73-7	Fluorene	U	33.3	ug/kg	10.0	33.3
7005-72-3	4-Chlorophenylphenylether	U	333	ug/kg	66.7	333
534-52-1	2-Methyl-4,6-dinitrophenol	U	333	ug/kg	66.7	333
100-01-6	4-Nitroaniline	U	333	ug/kg	100	333
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	333	ug/kg	66.7	333
122-66-7	Azobenzene	U	333	ug/kg	66.7	333
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	333	ug/kg	66.7	333
118-74-1	Hexachlorobenzene	U	333	ug/kg	66.7	333
85-01-8	Phenanthrene	U	33.3	ug/kg	10.0	33.3
120-12-7	Anthracene	U	33.3	ug/kg	6.67	33.3
84-74-2	Di-n-butylphthalate	U	333	ug/kg	66.7	333
206-44-0	Fluoranthene	U	33.3	ug/kg	10.0	33.3
85-68-7	Butylbenzylphthalate	U	333	ug/kg	66.7	333
56-55-3	Benzo(a)anthracene	U	33.3	ug/kg	10.0	33.3
91-94-1	3,3'-Dichlorobenzidine	U	333	ug/kg	100	333
218-01-9	Chrysene	U	33.3	ug/kg	10.0	33.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	333	ug/kg	66.7	333
117-84-0	Di-n-octylphthalate	U	333	ug/kg	66.7	333
205-99-2	Benzo(b)fluoranthene	U	33.3	ug/kg	10.0	33.3
207-08-9	Benzo(k)fluoranthene	U	33.3	ug/kg	10.0	33.3
50-32-8	Benzo(a)pyrene	U	33.3	ug/kg	10.0	33.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	33.3	ug/kg	10.0	33.3
53-70-3	Dibenzo(a,h)anthracene	U	33.3	ug/kg	10.0	33.3
191-24-2	Benzo(ghi)perylene	U	33.3	ug/kg	10.0	33.3
120-82-1	1,2,4-Trichlorobenzene	U	333	ug/kg	66.7	333

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.97	416	ug/kg		J

Data File: /chem/MSD4.i/s022010.b/s4b2015-1.d
Report Date: 21-Feb-2010 09:16

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Data file : /chem/MSD4.i/s022010.b/s4b2015-1.d
Lab Smp Id: 1202040333 Client Smp ID: SBLK01
Inj Date : 20-FEB-2010 15:50
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |1202040333|951989|1|SVM|1|MB
Misc Info : |MSD8270_S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 08:46 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1620.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.00000	weight of sample
M	0.00000	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.930	3.935	(1.000)	155481	40.0000		
* 29 Naphthalene-d8	136	4.797	4.802	(1.000)	613164	40.0000		
* 46 Acenaphthene-d10	164	6.048	6.053	(1.000)	323214	40.0000		
* 67 Phenanthrene-d10	188	7.043	7.043	(1.000)	481222	40.0000		
* 91 Chrysene-d12	240	8.744	8.754	(1.000)	349489	40.0000		
* 98 Perylene-d12	264	10.290	10.300	(1.000)	305670	40.0000		
\$ 3 2-Fluorophenol	112	3.122	3.117	(0.794)	326250	73.6390	2450	
\$ 5 Phenol-d5	99	3.641	3.646	(0.926)	419027	75.2852	2510	
\$ 20 Nitrobenzene-d5	82	4.294	4.299	(0.895)	176277	37.4370	1250	
\$ 39 2-Fluorobiphenyl	172	5.540	5.545	(0.916)	324310	38.8604	1300	
\$ 60 2,4,6-Tribromophenol	329	6.588	6.588	(1.089)	78669	77.8263	2590	
\$ 81 p-Terphenyl-d14	244	7.968	7.968	(0.911)	286892	52.5128	1750	

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Data file : /chem/MSD4.i/s022010.b/s4b2015-1.d
Lab Smp Id: 1202040333 Client Smp ID: SBLK01
Inj Date : 20-FEB-2010 15:50
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |1202040333|951989|1|SVM|1|MB
Misc Info : |MSD8270_S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 08:46 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1620.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.00000	weight of sample
M	0.00000	% moisture

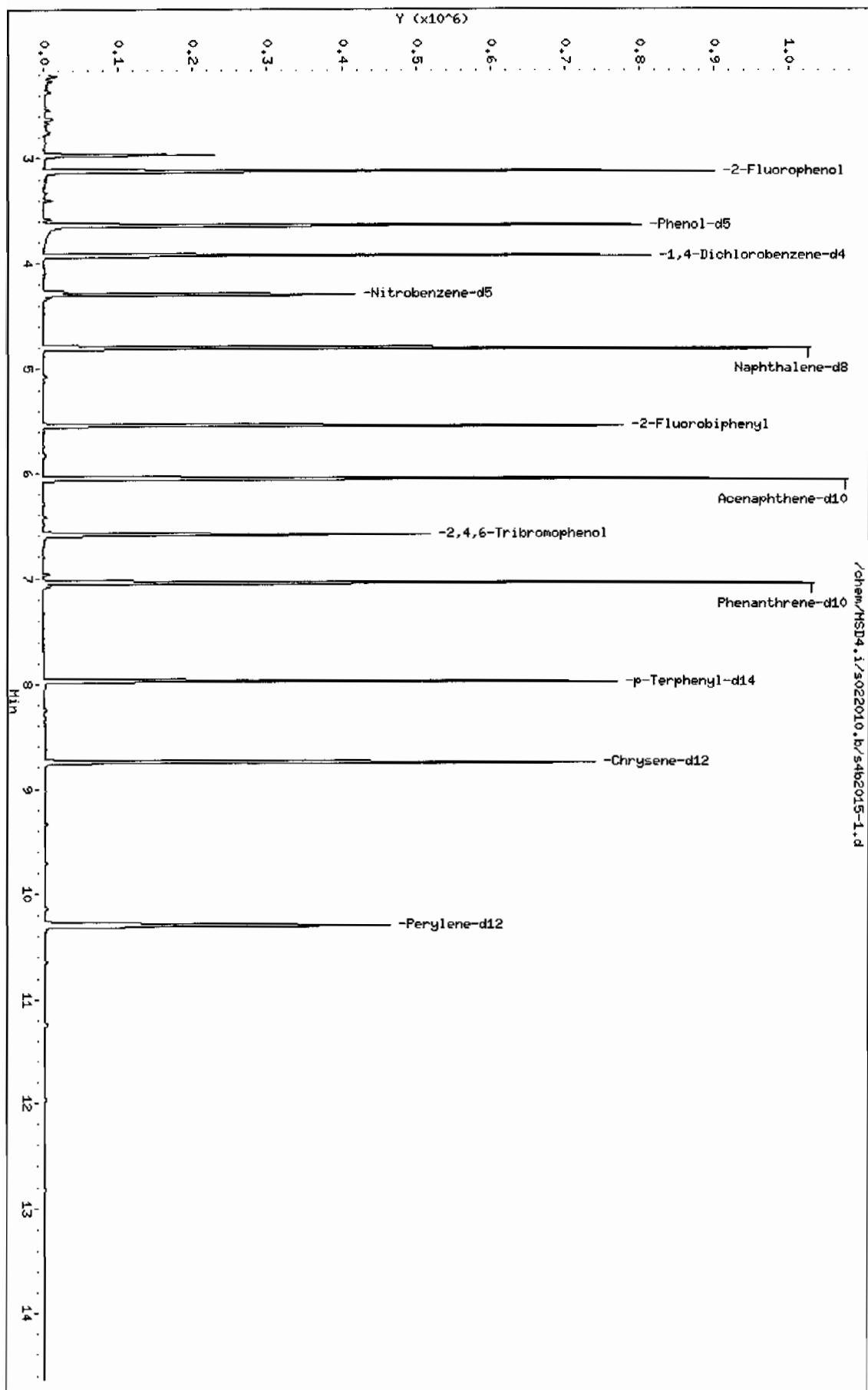
Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.930	891446	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate				CAS #:			
2.967	278285	12.4868967	416	0		0	10

Data File: /chem/HSD4.i/s022010.b/s4b2015-1.d
Date: 20-FEB-2010 15:50
Client ID: SBLK01
Sample Info: 11202040333195198911SVH11HB
Volume Injected (uL): 0.5
Column phase: J&W DB-5MS

Instrument: HSD4.i
Operator: JHB3
Column diameter: 0.20



Date : 20-FEB-2010 15:50

Client ID: SBLK01

Instrument: MSD4.i

Sample Info: I12020403331951989111SVH111MB

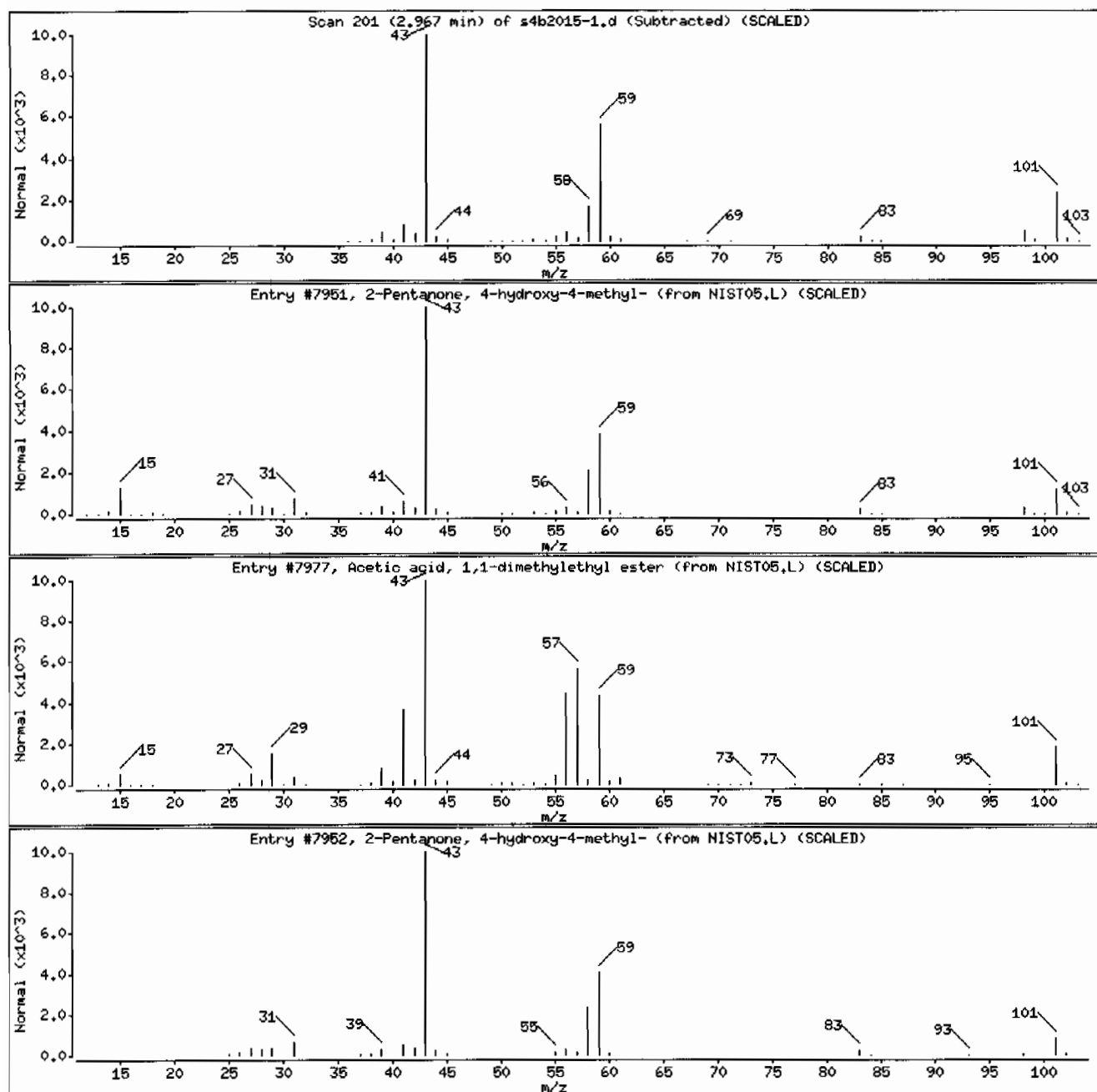
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
Acetic acid, 1,1-dimethylethyl ester	540-88-5	NIST05.L	7977	39	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	37	C6H12O2	116



**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620

Matrix: SOIL

Lab Sample ID: 1202040334

Client Sample: QC for batch 951987

Client: LANL010

Project: QC

Client ID: LCS for batch 951987

Method: SW846 8270C

SOP Ref: GL-OA-E-009

Batch ID: 951989

Inst: MSD4.1

Dilution: 1

Run Date: 02/20/2010 16:13

Analyst: JMB3

Inj. Vol: .5 uL

Prep Date: 02/11/2010 22:25

Aliquot: 30 g

Final Volume: 1 mL

Data File: s4b2016-1.d

Column: J&W DB-5MS

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine		1130	ug/kg	66.7	333
108-95-2	Phenol		1290	ug/kg	66.7	333
95-57-8	2-Chlorophenol		1280	ug/kg	66.7	333
106-46-7	1,4-Dichlorobenzene		1280	ug/kg	66.7	333
621-64-7	N-Nitrosodipropylamine		1450	ug/kg	66.7	333
59-50-7	4-Chloro-3-methylphenol		1320	ug/kg	66.7	333
83-32-9	Acenaphthene		1130	ug/kg	11.0	33.3
121-14-2	2,4-Dinitrotoluene		1320	ug/kg	33.3	333
100-02-7	4-Nitrophenol		1110	ug/kg	110	333
87-86-5	Pentachlorophenol		1200	ug/kg	83.3	333
129-00-0	Pyrene		1430	ug/kg	10.0	33.3
110-86-1	Pyridine		1130	ug/kg	66.7	333
62-53-3	Aniline		1220	ug/kg	100	333
111-44-4	bis(2-Chloroethyl) ether		1320	ug/kg	66.7	333
541-73-1	1,3-Dichlorobenzene		1270	ug/kg	66.7	333
100-51-6	Benzyl alcohol		991	ug/kg	100	333
95-50-1	1,2-Dichlorobenzene		1270	ug/kg	66.7	333
108-60-1	bis(2-Chloroisopropyl)ether		1390	ug/kg	66.7	333
95-48-7	o-Cresol		1340	ug/kg	66.7	333
65794-96-9	m,p-Cresols		1550	ug/kg	100	333
67-72-1	Hexachloroethane		1300	ug/kg	66.7	333
98-95-3	Nitrobenzene		1340	ug/kg	66.7	333
78-59-1	Isophorone		1230	ug/kg	66.7	333
88-75-5	2-Nitrophenol		1150	ug/kg	66.7	333
105-67-9	2,4-Dimethylphenol		1380	ug/kg	117	333
111-91-1	bis(2-Chloroethoxy)methane		1220	ug/kg	66.7	333
120-83-2	2,4-Dichlorophenol		1190	ug/kg	66.7	333
65-85-0	Benzoic acid		1890	ug/kg	167	667
91-20-3	Naphthalene		1190	ug/kg	10.0	33.3
106-47-8	4-Chloroaniline		1170	ug/kg	66.7	333
87-68-3	Hexachlorobutadiene		1250	ug/kg	66.7	333
91-57-6	2-Methylnaphthalene		1260	ug/kg	6.67	33.3
77-47-4	Hexachlorocyclopentadiene		1090	ug/kg	66.7	333
88-06-2	2,4,6-Trichlorophenol		1280	ug/kg	66.7	333
95-95-4	2,4,5-Trichlorophenol		1410	ug/kg	66.7	333
91-58-7	2-Chloronaphthalene		1250	ug/kg	11.0	33.3
88-74-4	2-Nitroaniline		1470	ug/kg	66.7	333
	o-Nitroaniline					
99-09-2	3-Nitroaniline		1350	ug/kg	66.7	333

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1620		Matrix: SOIL
Lab Sample ID: 1202040334		
Client Sample: QC for batch 951987	Client: LANL010	Project: QC
Client ID: LCS for batch 951987	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 951989	Inst: MSD4.I	Dilution: 1
Run Date: 02/20/2010 16:13	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/11/2010 22:25	Aliquot: 30 g	Final Volume: 1 mL
Data File: s4b2016-1.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate		1370	ug/kg	66.7	333
606-20-2	2,6-Dinitrotoluene		1330	ug/kg	33.3	333
208-96-8	Acenaphthylene		1330	ug/kg	10.0	33.3
51-28-5	2,4-Dinitrophenol		864	ug/kg	127	667
132-64-9	Dibenzofuran		1300	ug/kg	66.7	333
84-66-2	Diethylphthalate		1440	ug/kg	66.7	333
86-73-7	Fluorene		1100	ug/kg	10.0	33.3
7005-72-3	4-Chlorophenylphenylether		1300	ug/kg	66.7	333
534-52-1	2-Methyl-4,6-dinitrophenol		1060	ug/kg	66.7	333
100-01-6	4-Nitroaniline		1660	ug/kg	100	333
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine		1540	ug/kg	66.7	333
122-66-7	Azobenzene		1610	ug/kg	66.7	333
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether		1300	ug/kg	66.7	333
118-74-1	Hexachlorobenzene		1340	ug/kg	66.7	333
85-01-8	Phenanthrene		1300	ug/kg	10.0	33.3
120-12-7	Anthracene		1270	ug/kg	6.67	33.3
84-74-2	Di-n-butylphthalate		1470	ug/kg	66.7	333
206-44-0	Fluoranthene		1310	ug/kg	10.0	33.3
85-68-7	Butylbenzylphthalate		1750	ug/kg	66.7	333
56-55-3	Benzo(a)anthracene		1310	ug/kg	10.0	33.3
91-94-1	3,3'-Dichlorobenzidine		1140	ug/kg	100	333
218-01-9	Chrysene		1290	ug/kg	10.0	33.3
117-81-7	bis(2-Ethylhexyl)phthalate		1660	ug/kg	66.7	333
117-84-0	Di-n-octylphthalate		1650	ug/kg	66.7	333
205-99-2	Benzo(b)fluoranthene		1320	ug/kg	10.0	33.3
207-08-9	Benzo(k)fluoranthene		1430	ug/kg	10.0	33.3
50-32-8	Benzo(a)pyrene		1400	ug/kg	10.0	33.3
193-39-5	Indeno(1,2,3-cd)pyrene		1540	ug/kg	10.0	33.3
53-70-3	Dibenzo(a,h)anthracene		1550	ug/kg	10.0	33.3
191-24-2	Benzo(ghi)perylene		1520	ug/kg	10.0	33.3
120-82-1	1,2,4-Trichlorobenzene		1230	ug/kg	66.7	333

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Data file : /chem/MSD4.i/s022010.b/s4b2016-1.d
 Lab Smp Id: 1202040334 Client Smp ID: SBLK01LCS
 Inj Date : 20-FEB-2010 16:13
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |1202040334|951989|1|SVM|1|LCS
 Misc Info : |MSD8270_S|WBN100205-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
 Meth Date : 21-Feb-2010 08:46 jos00786 Quant Type: ISTD
 Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
 Als bottle: 5 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1620.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.00000	weight of sample
M	0.00000	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.930	3.935	(1.000)	168449	40.0000	
* 29 Naphthalene-d8	136	4.802	4.802	(1.000)	692313	40.0000	
* 46 Acenaphthene-d10	164	6.054	6.053	(1.000)	358752	40.0000	
* 67 Phenanthrene-d10	188	7.043	7.043	(1.000)	546264	40.0000	
* 91 Chrysene-d12	240	8.739	8.754	(1.000)	439543	40.0000	
* 98 Perylene-d12	264	10.279	10.300	(1.000)	386215	40.0000	
\$ 3 2-Fluorophenol	112	3.123	3.117	(0.794)	341935	71.2377	2370
\$ 5 Phenol-d5	99	3.641	3.646	(0.926)	430621	71.4121	2380
\$ 20 Nitrobenzene-d5	82	4.294	4.299	(0.894)	202939	38.1720	1270
\$ 39 2-Fluorobiphenyl	172	5.545	5.545	(0.916)	343197	37.0499	1230
\$ 60 2,4,6-Tribromophenol	329	6.594	6.588	(1.089)	94239	83.9941	2800
\$ 81 p-Terphenyl-d14	244	7.963	7.968	(0.911)	343004	49.9204	1660

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/ul)	FINAL (ug/Kg)
6 Phenol	94	3.652	3.652	(0.929)	236585	38.5967	1290
8 2-Chlorophenol	128	3.796	3.796	(0.966)	193271	38.4614	1280
11 1,4-Dichlorobenzene	146	3.941	3.946	(1.003)	192236	38.2978	1280
17 N-Nitrosodipropylamine	70	4.171	4.176	(1.061)	149482	43.5255	1450 (Q)
28 1,2,4-Trichlorobenzene	180	4.749	4.754	(0.989)	147498	36.7777	1220
33 4-Chloro-3-methylphenol	107	5.155	5.144	(1.073)	157735	39.5368	1320
47 Acenaphthene	154	6.075	6.080	(1.004)	309356	33.8404	1130
50 2,4-Dinitrotoluene	165	6.161	6.166	(1.018)	117060	39.6060	1320
52 4-Nitrophenol	139	6.102	6.091	(1.008)	55314	33.4270	1110
65 Pentachlorophenol	266	6.909	6.909	(0.981)	45395	35.9138	1200
79 Pyrene	202	7.915	7.920	(0.906)	513933	42.9008	1430
2 Pyridine	79	2.507	2.475	(0.638)	163758	33.8194	1130
4 Aniline	66	3.716	3.721	(0.946)	86650	36.4527	1220
7 bis(2-Chloroethyl) ether	63	3.727	3.732	(0.948)	142887	39.5677	1320
9 1,3-Dichlorobenzene	146	3.898	3.898	(0.992)	191048	38.1465	1270
12 Benzyl alcohol	108	4.000	3.999	(1.018)	82776	29.7310	991
13 1,2-Dichlorobenzene	146	4.043	4.048	(1.029)	174371	38.1451	1270
14 bis(2-Chloroisopropyl)ether	45	4.069	4.074	(1.035)	282497	41.8149	1390
15 o-Cresol	107	4.048	4.048	(1.030)	148663	40.2902	1340
18 m,p-Cresols	107	4.149	4.149	(1.056)	233880	46.5679	1550
19 Hexachloroethane	117	4.272	4.278	(1.087)	73356	38.9221	1300
21 Nitrobenzene	77	4.310	4.315	(0.898)	207168	40.2924	1340
22 Isophorone	82	4.460	4.470	(0.929)	394699	36.8126	1230
23 2-Nitrophenol	139	4.524	4.524	(0.942)	96218	34.5243	1150
24 2,4-Dimethylphenol	122	4.519	4.518	(0.941)	187881	41.4621	1380
25 bis(2-Chloroethoxy)methane	93	4.583	4.582	(0.954)	234298	36.5082	1220
26 2,4-Dichlorophenol	162	4.684	4.684	(0.975)	140519	35.7128	1190
27 Benzoic acid	105	4.583	4.577	(0.954)	188052	56.6127	1890
30 Naphthalene	128	4.818	4.818	(1.003)	565612	35.6734	1190
31 4-Chloroaniline	127	4.834	4.834	(1.007)	249371	35.0359	1170
32 Hexachlorobutadiene	225	4.877	4.877	(1.016)	74944	37.6053	1250
34 2-Methylnaphthalene	142	5.299	5.299	(1.104)	352422	37.9221	1260
36 Hexachlorocyclopentadiene	237	5.401	5.401	(0.892)	55128	32.8078	1090
37 2,4,6-Trichlorophenol	196	5.487	5.486	(0.906)	89420	38.4909	1280
38 2,4,5-Trichlorophenol	196	5.519	5.513	(0.912)	113394	42.2066	1410
40 2-Chloronaphthalene	162	5.652	5.652	(0.934)	323432	37.5531	1250
42 o-Nitroaniline	65	5.711	5.711	(0.943)	105115	44.0837	1470
41 m-Nitroaniline	138	6.005	6.011	(0.992)	90898	40.3941	1350
43 Dimethylphthalate	163	5.818	5.823	(0.961)	389435	41.0164	1370
44 2,6-Dinitrotoluene	165	5.877	5.877	(0.971)	90419	39.9289	1330
45 Acenaphthylene	152	5.957	5.962	(0.984)	523224	39.9211	1330
48 2,4-Dinitrophenol	184	6.075	6.075	(1.004)	22279	25.9165	864 (Q)
49 Dibenzofuran	168	6.193	6.198	(1.023)	442008	39.1046	1300
51 Diethylphthalate	149	6.305	6.305	(1.042)	387050	43.3091	1440
53 Fluorene	166	6.428	6.428	(1.062)	328238	32.9670	1100
54 4-Chlorophenylphenylether	204	6.407	6.406	(1.058)	166481	39.1037	1300
55 2-Methyl-4,6-dinitrophenol	198	6.444	6.444	(0.915)	47167	31.8726	1060

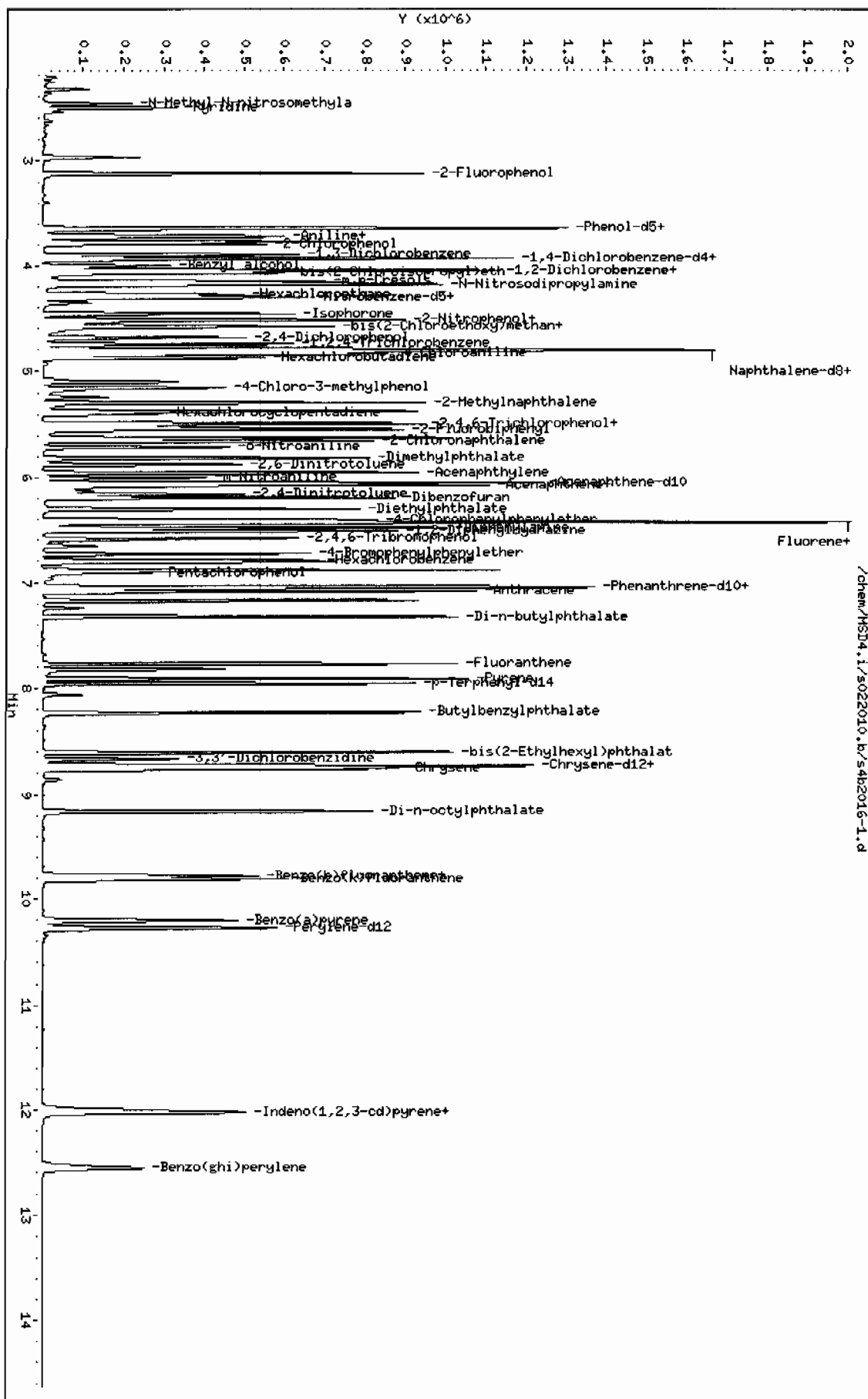
Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
56 p-Nitroaniline	138	6.433	6.433	(1.063)	86502	49.8922	1660
133 Diphenylamine	169	6.487	6.487	(0.921)	333011	46.0663	1540
58 1,2-Diphenylhydrazine	77	6.514	6.513	(0.925)	455708	48.3461	1610
61 4-Bromophenylphenylether	248	6.733	6.733	(0.956)	92998	38.9201	1300
63 Hexachlorobenzene	284	6.792	6.791	(0.964)	103536	40.1573	1340
68 Phenanthrene	178	7.059	7.059	(1.002)	524882	38.9437	1300
69 Anthracene	178	7.091	7.091	(1.007)	519831	37.9718	1260
72 Di-n-butylphthalate	149	7.332	7.332	(1.041)	653310	44.2028	1470
76 Fluoranthene	202	7.776	7.776	(1.104)	497621	39.4260	1310
85 Butylbenzylphthalate	149	8.230	8.241	(0.942)	267075	52.5332	1750
89 Benzo(a)anthracene	228	8.728	8.738	(0.999)	406241	39.4436	1310
90 3,3'-Dichlorobenzidine	252	8.664	8.658	(0.991)	100622	34.0786	1140
92 Chrysene	228	8.760	8.776	(1.002)	400759	38.6761	1290
93 bis(2-Ethylhexyl)phthalate	149	8.605	8.615	(0.985)	363637	49.9026	1660
94 Di-n-octylphthalate	149	9.161	9.182	(0.891)	571506	49.4778	1650
95 Benzo(b)fluoranthene	252	9.782	9.803	(0.952)	361305	39.6558	1320 (H)
96 Benzo(k)fluoranthene	252	9.814	9.835	(0.955)	395311	42.8812	1430
97 Benzo(a)pyrene	252	10.204	10.231	(0.993)	326500	41.9294	1400
99 Indeno(1,2,3-cd)pyrene	276	12.023	12.055	(1.170)	322083	46.0772	1540
100 Dibenzo(a,h)anthracene	278	12.028	12.055	(1.170)	268057	46.5889	1550
101 Benzo(ghi)perylene	276	12.558	12.589	(1.222)	262131	45.4949	1520
1 N-Methyl-N-nitrosomethylamine	74	2.465	2.443	(0.627)	117064	33.8657	1130

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: /chem/MSD4.i/s022010.b/s4b2016-1.d
 Date : 20-FEB-2010 16:13
 Client ID: SBLKOLCS
 Sample Info: 1120204034196198911|SWH11.LCS
 Volume Injected (uL): 0.5
 Column phase: J&W DB-5MS

Instrument: MSD4.i
 Operator: JHB3
 Column diameter: 0.20



Miscellaneous Data

Prep Logbook

Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 951987 Verified by: _____ Lab SOP: GL-OA-E-010 REV# 18
 Analyst: Alberto Velasco Instrument: Semi-Volatiles Manual
 Method: SW846 3550B

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202040333 MB	11-FEB-2010 22:25:00	30	1	0.03333
1202040334 LCS	11-FEB-2010 22:25:00	30	1	0.03333
246434002	11-FEB-2010 22:25:00	30.03	1	0.0333
246434003	11-FEB-2010 22:25:00	30.14	1	0.03318
246434004	11-FEB-2010 22:25:00	30.05	1	0.03328
246434005	11-FEB-2010 22:25:00	30.02	1	0.03331
246434006	11-FEB-2010 22:25:00	30.02	1	0.03331
246434007	11-FEB-2010 22:25:00	30.15	1	0.03317
246434008	11-FEB-2010 22:25:00	30.03	1	0.0333
246434009	11-FEB-2010 22:25:00	30.12	1	0.0332
246434010	11-FEB-2010 22:25:00	30.12	1	0.0332
246434011	11-FEB-2010 22:25:00	30.12	1	0.0332
246434012	11-FEB-2010 22:25:00	30.1	1	0.03322
246434013	11-FEB-2010 22:25:00	30.02	1	0.03331
246434014	11-FEB-2010 22:25:00	30.07	1	0.03326
246434015	11-FEB-2010 22:25:00	30.13	1	0.03319
246442002	11-FEB-2010 22:25:00	30.14	1	0.03318
1202040335 MS (246442002)	11-FEB-2010 22:25:00	30.17	1	0.03315
1202040336 MSD (246442002)	11-FEB-2010 22:25:00	30.03	1	0.0333
246442003	11-FEB-2010 22:25:00	30.03	1	0.0333
246442004	11-FEB-2010 22:25:00	30.09	1	0.03323
246442005	11-FEB-2010 22:25:00	30.14	1	0.03318
246442006	11-FEB-2010 22:25:00	30.11	1	0.03321

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202040334	BENZIDINE LCS	UE100203-22	1	mL	Verified By: AJS
LCS	1202040334	BNA LCS w/o Benzidine 50ppm	UE100204-14	1	mL	Final Solvent: CH2Cl2
MS	1202040335	BENZIDINE LCS	UE100203-22	1	mL	
MS	1202040335	BNA LCS w/o Benzidine 50ppm	UE100204-14	1	mL	
MSD	1202040336	BENZIDINE LCS	UE100203-22	1	mL	
MSD	1202040336	BNA LCS w/o Benzidine 50ppm	UE100204-14	1	mL	
SURR	All	BNA for all Surrogate	UE100127-10	1	mL	
REGNT	All	Acetone	100211-B1	1.50	mL	
REGNT	All	Methylene Chloride	1266705-D	1.50	mL	
SOURC	All	SODIUM SULFATE	1265308	30	g	

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD4

DATE: 02/16/2010

METHOD: See raw data

OPERATOR: JMB3

REVIEWED BY: _____
DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT: 1239699-D
Multiplier Voltage: 1247 Emv Extr. Injection Volume: 0.5, 1.0 ul
DFTPP Solution ID: WBN100207-01 Internal Std ID: WBN100205-01

CALIBRATION & QC INFORMATION:

Initial Calibration Dates: See Calibration History and Standard Logbook.
Initial Calibration Std ID's: See Calibration History and Standard Logbook.

SOP: GL-OA-E-009 Rev. 23 Sequence Number: /chem/MSD4.i/s021610.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
Is4b1601.d	WBN100207-01	JMB3	16-FEB-2010 08:46	DFTPP	Is021610	1.0	DFTPP	DUSE
Is4b1602.d	WBN100207-01	JMB3	16-FEB-2010 09:15	DFTPP	Is021610	1.0	DFTPP	DUSE
Is4b1603-D.d	WBN100207-01	JMB3	16-FEB-2010 09:30	DFTPP	Is021610	1.0	DFTPP	8270d TUNE: AP - PEST - HEX
Is4b1603.d	WBN100207-01	JMB3	16-FEB-2010 09:30	DFTPP	Is021610	1.0	DFTPP	8270c TUNE: AP - PEST - HEX
Is4b1604.d	INSTBLANK	JMB3	16-FEB-2010 09:43	IB	Is021410	1.0	INSTBLANK	
Is4b1605.d	WBN100120-01	JMB3	16-FEB-2010 10:08	ICAL	Is021410	1.0	AP010	
Is4b1606.d	WBN100120-02	JMB3	16-FEB-2010 10:30	ICAL	Is021410	1.0	AP020	
Is4b1607.d	WBN100120-03.1	JMB3	16-FEB-2010 10:52	ICAL	Is021410	1.0	AP040	
Is4b1608.d	WBN100120-04	JMB3	16-FEB-2010 11:14	ICAL	Is021410	1.0	AP050	
Is4b1609.d	WBN100120-05	JMB3	16-FEB-2010 11:36	ICAL	Is021410	1.0	AP080	
Is4b1610.d	WBN100120-06	JMB3	16-FEB-2010 11:59	ICAL	Is021410	1.0	AP100	
Is4b1611.d	WBN100120-07	JMB3	16-FEB-2010 12:21	ICAL	Is021410	1.0	AP120	
Is4b1612.d	WBN100205-25	JMB3	16-FEB-2010 12:43	ICAL	Is021410	1.0	PEST010	
Is4b1613.d	WBN100205-24	JMB3	16-FEB-2010 13:05	ICAL	Is021410	1.0	PEST020	
Is4b1614.d	WBN100205-23.1	JMB3	16-FEB-2010 13:27	ICAL	Is021410	1.0	PEST040	
Is4b1615.d	WBN100205-22	JMB3	16-FEB-2010 13:50	ICAL	Is021410	1.0	PEST050	
Is4b1616.d	WBN100205-21	JMB3	16-FEB-2010 14:12	ICAL	Is021410	1.0	PEST080	DUSE: see s4b1625
Is4b1617.d	WBN100205-20	JMB3	16-FEB-2010 14:34	ICAL	Is021410	1.0	PEST100	DUSE: see s4b1626
Is4b1618.d	WBN100205-19	JMB3	16-FEB-2010 14:56	ICAL	Is021410	1.0	PEST120	

s4b1619.d	| WBN100120-16	| JMB3	| 16-FEB-2010 15:19	| ICAL	| s021410	|	1.0|HEX500	|
s4b1620.d	| WBN100120-15	| JMB3	| 16-FEB-2010 15:41	| ICAL	| s021410	|	1.0|HEX1000	|
s4b1621.d	| WBN100120-14	| JMB3	| 16-FEB-2010 16:03	| ICAL	| s021410	|	1.0|HEX1250	|
s4b1622.d	| WBN100120-13	| JMB3	| 16-FEB-2010 16:26	| ICAL	| s021410	|	1.0|HEX1500	|
s4b1623.d	| WBN100120-12	| JMB3	| 16-FEB-2010 16:48	| ICAL	| s021410	|	1.0|HEX1750	|
s4b1624.d	| UBN090828-02	| JMB3	| 16-FEB-2010 17:11	| ICAL	| s021410	|	1.0|HEX2000	|
s4b1625.d	| WBN100205-21	| JMB3	| 16-FEB-2010 17:33	| ICAL	| s021410	|	1.0|PEST080	|
s4b1626.d	| WBN100205-20	| JMB3	| 16-FEB-2010 17:55	| ICAL	| s021410	|	1.0|PEST100	|
s4b1627-625.d	| WBN100120-08.1	| JMB3	| 16-FEB-2010 18:17	| ICV	| s021410	|	1.0|APICV	| 625 AP ICV
s4b1627-D.d	| WBN100120-08.1	| JMB3	| 16-FEB-2010 18:17	| ICV	| s021410	|	1.0 APICV	| 8270d AP ICV
s4b1627.d	| WBN100120-08.1	| JMB3	| 16-FEB-2010 18:17	| ICV	| s021410	|	1.0 APICV	| 8270c AP ICV
s4b1628-625.d	| WBN100205-26.1	| JMB3	| 16-FEB-2010 18:39	| ICV	| s021410	|	1.0|PESTICV	| 625 PEST ICV
s4b1628-D.d	| WBN100205-26.1	| JMB3	| 16-FEB-2010 18:39	| ICV	| s021410	|	1.0|PESTICV	| 8270d PEST ICV
s4b1628.d	| WBN100205-26.1	| JMB3	| 16-FEB-2010 18:39	| ICV	| s021410	|	1.0|PESTICV	| 8270c PEST ICV
s4b1629-625.d	| WBN100103-10.4	| JMB3	| 16-FEB-2010 19:01	| ICV	| s021410	|	1.0|HEXICV	| 625 HEX ICV
s4b1629-D.d	| WBN100103-10.4	| JMB3	| 16-FEB-2010 19:01	| ICV	| s021410	|	1.0|HEXICV	| 8270d HEX ICV
s4b1629.d	| WBN100103-10.4	| JMB3	| 16-FEB-2010 19:01	| ICV	| s021410	|	1.0|HEXICV	| 8270c HEX ICV
s4b1630-D.d	| WBN100207-01	| JMB3	| 16-FEB-2010 19:26	| DFTP	| s021610	|	1.0|DFTP	| 8270d TUNE: NEV - BUJO
s4b1630.d	| WBN100207-01	| JMB3	| 16-FEB-2010 19:26	| DFTP	| s021610	|	1.0|DFTP	| 8270c TUNE: NEV - BUJO
s4b1631.d	| INSTBLANK	| JMB3	| 16-FEB-2010 19:38	| IB	| s021610	|	1.0|INSTBLANK	|
s4b1632.d	| UBN100127-01	| JMB3	| 16-FEB-2010 20:07	| ICAL	| s021410	|	1.0|NEV010	|
s4b1633.d	| UBN100127-02	| JMB3	| 16-FEB-2010 20:29	| ICAL	| s021410	|	1.0|NEV020	|
s4b1634.d	| UBN100127-03	| JMB3	| 16-FEB-2010 20:51	| ICAL	| s021410	|	1.0|NEV040	|
s4b1635.d	| UBN100127-04	| JMB3	| 16-FEB-2010 21:13	| ICAL	| s021410	|	1.0|NEV050	|
s4b1636.d	| UBN100127-05	| JMB3	| 16-FEB-2010 21:35	| ICAL	| s021410	|	1.0|NEV080	|
s4b1637.d	| UBN100127-06	| JMB3	| 16-FEB-2010 21:57	| ICAL	| s021410	|	1.0|NEV100	|
s4b1638.d	| UBN100127-07	| JMB3	| 16-FEB-2010 22:19	| ICAL	| s021410	|	1.0|NEV120	|

ls4b1639.d	WEN100121-07	JMB3	16-FEB-2010 22:41	ICAL	s021410	1.0|BJCO01C	
ls4b1640.d	WEN100121-06	JMB3	16-FEB-2010 23:09	ICAL	s021410	1.0|BJCO02C	
ls4b1641.d	WEN100121-05.1	JMB3	16-FEB-2010 23:37	ICAL	s021410	1.0|BJCO04C	
ls4b1642.d	WEN100121-04	JMB3	17-FEB-2010 00:06	ICAL	s021410	1.0|BJCO05C	
ls4b1643.d	WEN100121-03	JMB3	17-FEB-2010 00:34	ICAL	s021410	1.0|BJCO08C	
ls4b1644.d	WEN100121-02	JMB3	17-FEB-2010 01:03	ICAL	s021410	1.0|BJCO10C	
ls4b1645.d	WEN100121-01	JMB3	17-FEB-2010 01:31	ICAL	s021410	1.0|BJCO12C	

Instrument Batch: /chem/MSD4.i/s021610.b

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD4

DATE: 02/17/2010 METHOD: See raw data OPERATOR: JMB3 REVIEWED BY: _____
DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT: 1239699-D
Multiplier Voltage: 1282 Emv Extr. Injection Volume: 0.5, 1.0 ul
DFTPP Solution ID: WBN100207-01 Internal Std ID: WBN100205-01
CALIBRATION & QC INFORMATION:
Initial Calibration Dates: See Calibration History and Standard Logbook.
Initial Calibration Std ID's: See Calibration History and Standard Logbook.

SOP: GL-OA-E-009 Rev. 23 Sequence Number: /chem/MSD4.i/s021710.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
s4b1701.d	WBN100207-01	JMB3	17-FEB-2010 14:17	DFTPP	s021710	1.0	DFTPP	DOSE
s4b1702.d	WBN100207-01	JMB3	17-FEB-2010 17:07	DFTPP	s021710	1.0	DFTPP	8270d TUNE: MEGA
s4b1702.d	WBN100207-01	JMB3	17-FEB-2010 17:07	DFTPP	s021710	1.0	DFTPP	8270c TUNE: MEGA
s4b1703.d	INST BKL	JMB3	17-FEB-2010 17:19	---	s021710	1.0	INST BKL	
s4b1704.d	WBN100215-08	JMB3	17-FEB-2010 17:46	ICAL	s021710	1.0	MEGA001	
s4b1705.d	WBN100215-07	JMB3	17-FEB-2010 18:13	ICAL	s021710	1.0	MEGA010	8270d
s4b1705.d	WBN100215-07	JMB3	17-FEB-2010 18:13	ICAL	s021710	1.0	MEGA010	
s4b1706.d	WBN100215-06	JMB3	17-FEB-2010 18:40	ICAL	s021710	1.0	MEGA020	8270d
s4b1706.d	WBN100215-06	JMB3	17-FEB-2010 18:40	ICAL	s021710	1.0	MEGA020	
s4b1707.d	WBN100215-05.1	JMB3	17-FEB-2010 19:07	ICAL	s021710	1.0	MEGA040	
s4b1708.d	WBN100215-04	JMB3	17-FEB-2010 19:34	ICAL	s021710	1.0	MEGA050	
s4b1709.d	WBN100215-03	JMB3	17-FEB-2010 20:00	ICAL	s021710	1.0	MEGA080	
s4b1710.d	WBN100215-02	JMB3	17-FEB-2010 20:27	ICAL	s021710	1.0	MEGA100	
s4b1711.d	WBN100215-01	JMB3	17-FEB-2010 20:54	ICAL	s021710	1.0	MEGA120	
s4b1712.d	INST BKL	JMB3	17-FEB-2010 21:22	---	s021710	1.0	INST BKL	
s4b1713-625.d	WBN100215-09.1	JMB3	17-FEB-2010 21:48	ICV	s021710	1.0	MEGAICV	625 MEGA ICV
s4b1713-0.d	WBN100215-09.1	JMB3	17-FEB-2010 21:48	ICV	s021710	1.0	MEGAICV	8270d MEGA ICV
s4b1713.d	WBN100215-09.1	JMB3	17-FEB-2010 21:48	ICV	s021710	1.0	MEGAICV	8270c MEGA ICV

Instrument Batch: /chem/MSD4.i/s021710.b

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD4

DATE: 02/20/2010 METHOD: See raw data OPERATOR: JMB3 REVIEWED BY: _____
 HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT: 1239699-D
 Multiplier Voltage: 1341 Emv Extr. Injection Volume: 0.5, 1.0 ul
 DFTPP Solution ID: WBN100207-01 Internal Std ID: WBN100205-01
 CALIBRATION & QC INFORMATION:
 Initial Calibration Dates: See Calibration History and Standard Logbook.
 Initial Calibration Std ID's: See Calibration History and Standard Logbook.

SOP: GL-OA-E-009 Rev. 23 Sequence Number: /chem/MSD4.i/s022010.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
Is4b2001.d	WBN100207-01	JMB3	20-FEB-2010 09:53	DFTPP	Is022010	1.0	DFTPP	DOSE
Is4b2002.d	WBN100207-01	JMB3	20-FEB-2010 11:07	DFTPP	Is022010	1.0	DFTPP	DOSE
Is4b2003.d	WBN100207-01	JMB3	20-FEB-2010 11:22	DFTPP	Is022010	1.0	DFTPP	DOSE
Is4b2004.d	WBN100207-01	JMB3	20-FEB-2010 11:38	DFTPP	Is022010	1.0	DFTPP	DOSE
Is4b2005.d	WBN100207-01	JMB3	20-FEB-2010 11:53	DFTPP	Is022010	1.0	DFTPP	DOSE
Is4b2006.d	WBN100207-01	JMB3	20-FEB-2010 12:31	DFTPP	Is022010	1.0	DFTPP	DOSE
Is4b2007.d	WBN100207-01	JMB3	20-FEB-2010 12:47	DFTPP	Is022010	1.0	DFTPP	DOSE
Is4b2008.d	WBN100215-09.4	JMB3	20-FEB-2010 13:00	CVS	Is022010	1.0	MEGACVS	DOSE
Is4b2009.d	WBN100218-05.3	JMB3	20-FEB-2010 13:27	CVS	Is022010	1.0	APCVS	DOSE
Is4b2010.d	WBN100215-09.4	JMB3	20-FEB-2010 13:50	CVS	Is022010	1.0	MEGACVS	DOSE
Is4b2011.d	WBN100207-01	JMB3	20-FEB-2010 14:19	DFTPP	Is022010	1.0	DFTPP	8270c TUNE: PASSES
Is4b2012.d	WBN100215-09.4	JMB3	20-FEB-2010 14:32	CVS	Is022010	1.0	MEGACVS	DOSE: see s4b2013
Is4b2013.d	WBN100215-09.4	JMB3	20-FEB-2010 15:00	CVS	Is022010	1.0	MEGACVS	8270c MEGA CVS (ISI: 194395)
Is4b2014.d	WBN100218-05.3	JMB3	20-FEB-2010 15:27	CVS	Is022010	1.0	APCVS	8270c AP CVS
Is4b2015-1.d	1202040333	JMB3	20-FEB-2010 15:50	951989	10-1620	1.0	MB	REPORT
Is4b2015.d	1202040333	JMB3	20-FEB-2010 15:50	951989	10-1623	1.0	MB	REPORT
Is4b2016-1.d	1202040334	JMB3	20-FEB-2010 16:13	951989	10-1620	1.0	LCS	REPORT
Is4b2016.d	1202040334	JMB3	20-FEB-2010 16:13	951989	10-1623	1.0	LCS	REPORT
Is4b2017-1.d	1202044769	JMB3	20-FEB-2010 16:35	953805	10-1710	1.0	MB	REPORT

s4b2017.d	1202044769	JMB3	20-FEB-2010 16:35	953805	110-1742	1.0IMB	REPORT
s4b2018-1.d	1202044770	JMB3	20-FEB-2010 16:58	953805	110-1710	1.0ILCS	REPORT
s4b2018.d	1202044770	JMB3	20-FEB-2010 16:58	953805	110-1740	1.0ILCS	REPORT
s4b2019.d	1246442002	JMB3	20-FEB-2010 17:20	951989	110-1623	1.0LANL	REPORT
s4b2020.d	1202040335	JMB3	20-FEB-2010 17:43	951989	110-1623	1.0IMS_LANL	REPORT: fails ISTD - 302/MSD pass but w/ similar low responses
s4b2021.d	1202040336	JMB3	20-FEB-2010 18:06	951989	110-1623	1.0MSD_LANL	REPORT
s4b2022.d	246442003	JMB3	20-FEB-2010 18:28	951989	110-1623	1.0LANL	REPORT: fails ISTD - rerun s4b2136 confirms failure
s4b2023.d	246442004	JMB3	20-FEB-2010 18:51	951989	110-1623	1.0LANL	DUSE: fails ISTD - see rerun s4b2108
s4b2024.d	246442005	JMB3	20-FEB-2010 19:13	951989	110-1623	1.0LANL	REPORT
s4b2025.d	246442006	JMB3	20-FEB-2010 19:36	951989	110-1623	1.0LANL	REPORT
s4b2026.d	246434002	JMB3	20-FEB-2010 19:58	951989	110-1620	1.0LANL	REPORT
s4b2027.d	246434003	JMB3	20-FEB-2010 20:20	951989	110-1620	1.0LANL	REPORT: fails ISTD - rerun s4b2137 confirms failure
s4b2028.d	246434004	JMB3	20-FEB-2010 20:42	951989	110-1620	1.0LANL	DUSE: fails ISTD - see rerun s4b2110
s4b2029.d	246434005	JMB3	20-FEB-2010 21:05	951989	110-1620	1.0LANL	REPORT
s4b2030.d	246434006	JMB3	20-FEB-2010 21:27	951989	110-1620	1.0LANL	DUSE: fails ISTD - see rerun s4b2111
s4b2031.d	246434007	JMB3	20-FEB-2010 21:49	951989	110-1620	1.0LANL	DUSE: fails ISTD - see rerun s4b2112
s4b2032.d	246434008	JMB3	20-FEB-2010 22:11	951989	110-1620	1.0LANL	DUSE: fails ISTD - see rerun s4b2113
s4b2033.d	246434009	JMB3	20-FEB-2010 22:33	951989	110-1620	1.0LANL	DUSE: fails ISTD - see rerun s4b2114
s4b2034.d	246434010	JMB3	20-FEB-2010 22:55	951989	110-1620	1.0LANL	DUSE: fails ISTD - see rerun s4b2115
s4b2035.d	246434011	JMB3	20-FEB-2010 23:18	951989	110-1620	1.0LANL	DUSE: fails ISTD - see rerun s4b2116
s4b2036.d	246434012	JMB3	20-FEB-2010 23:40	951989	110-1620	1.0LANL	DUSE: fails ISTD - see rerun s4b2117
s4b2037.d	246434013	JMB3	21-FEB-2010 00:02	951989	110-1620	1.0LANL	DUSE: fails ISTD - see rerun s4b2118
s4b2038.d	246434014	JMB3	21-FEB-2010 00:24	951989	110-1620	1.0LANL	DUSE: fails ISTD - see rerun s4b2119
s4b2039.d	246434015	JMB3	21-FEB-2010 00:47	951989	110-1620	1.0LANL	DUSE: fails ISTD - see rerun s4b2120
s4b2040.d	246732002	JMB3	21-FEB-2010 01:09	953805	110-1742	1.0LANL	REPORT: fails ISTD - MS/MSD confirm
s4b2041.d	1202044771	JMB3	21-FEB-2010 01:31	953805	110-1742	1.0IMS_LANL	REPORT
s4b2042.d	1202044772	JMB3	21-FEB-2010 01:53	953805	110-1742	1.0MSD_LANL	REPORT

s4b2043.d	1246732003	JMB3	21-FEB-2010 02:15	'953805	10-1742	1.0|LANL	DUSE: fails ISTD - see rerun s4b2108
s4b2044.d	1246732004	JMB3	21-FEB-2010 02:37	'953805	10-1742	1.0|LANL	DUSE: fails ISTD - OUTSIDE TUNE - see rerun s4b2133
s4b2045.d	1246732005	JMB3	21-FEB-2010 02:59	'953805	10-1742	1.0|LANL	DUSE: fails ISTD - OUTSIDE TUNE - see rerun s4b2134
s4b2046.d	1246732006	JMB3	21-FEB-2010 03:22	'953805	10-1742	1.0|LANL	DUSE: OUTSIDE TUNE - confirmation of ISTD failure for s4b2135

Instrument Batch: /chem/MSD4.i/s022010.b

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD4

DATE: 02/21/2010 METHOD: See raw data OPERATOR: JMB3 REVIEWED BY: _____
 HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT: 1239699-D
 Multiplier Voltage: 1341 Emv Extr. Injection Volume: 0.5, 1.0 ul
 DFTPP Solution ID: WBN100207-01 Internal Std ID: WBN100205-01
 CALIBRATION & QC INFORMATION:
 Initial Calibration Dates: See Calibration History and Standard Logbook.
 Initial Calibration Std ID's: See Calibration History and Standard Logbook.

SOP: GL-OA-E-009 Rev. 23 Sequence Number: /chem/MSD4.i/s022110a.b

Data File	GE Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
s4b2105.d	WBN100207-01	JMB3	21-FEB-2010 11:21	DFTPP	s022110a	1.0	DFTPP	8270c TUNE: PASSES (1S: 141610)
s4b2106.d	WBN100215-09.4	JMB3	21-FEB-2010 11:34	CVS	s022110a	1.0	MEGACVS	8270c MEGA CVS
s4b2107.d	WBN100218-05.3	JMB3	21-FEB-2010 12:02	CVS	s022110a	1.0	APCVS	8270c AP CVS
s4b2108.d	246442004	JMB3	21-FEB-2010 12:24	951989	10-1623	1.0	LANL	REPORT
s4b2109.d	246434002	JMB3	21-FEB-2010 12:47	951989	10-1620	1.0	LANL	DOSE: retur. rot needed - see s4b2026
s4b2110.d	246434004	JMB3	21-FEB-2010 13:10	951989	10-1620	1.0	LANL	REPORT
s4b2111.d	246434006	JMB3	21-FEB-2010 13:32	951989	10-1620	1.0	LANL	REPORT
s4b2112.d	246434007	JMB3	21-FEB-2010 13:54	951989	10-1620	1.0	LANL	REPORT
s4b2113.d	246434008	JMB3	21-FEB-2010 14:17	951989	10-1620	1.0	LANL	REPORT
s4b2114.d	246434009	JMB3	21-FEB-2010 14:40	951989	10-1620	1.0	LANL	REPORT
s4b2115.d	246434010	JMB3	21-FEB-2010 15:02	951989	10-1620	1.0	LANL	REPORT
s4b2116.d	246434011	JMB3	21-FEB-2010 15:25	951989	10-1620	1.0	LANL	REPORT
s4b2117.d	246434012	JMB3	21-FEB-2010 15:48	951989	10-1620	1.0	LANL	REPORT
s4b2118.d	246434013	JMB3	21-FEB-2010 16:11	951989	10-1620	1.0	LANL	REPORT
s4b2119.d	246434014	JMB3	21-FEB-2010 16:33	951989	10-1620	1.0	LANL	REPORT
s4b2120.d	246434015	JMB3	21-FEB-2010 16:56	951989	10-1620	1.0	LANL	REPORT
s4b2121.d	246725001	JMB3	21-FEB-2010 17:18	953805	10-1710	1.0	LANL	REPORT
s4b2122.d	246725002	JMB3	21-FEB-2010 17:41	953805	10-1710	1.0	LANL	REPORT
s4b2123.d	246725003	JMB3	21-FEB-2010 18:04	953805	10-1710	1.0	LANL	REPORT

s4b2124.d	1246725004	JMB3	21-FEB-2010 18:26	953805	10-17:0	1.0|LANL	REPORT
s4b2125.d	1246725005	JMB3	21-FEB-2010 18:49	953805	10-17:0	1.0|LANL	REPORT
s4b2126.d	1246725006	JMB3	21-FEB-2010 19:11	953805	10-17:0	1.0|LANL	REPORT
s4b2127.d	1246725007	JMB3	21-FEB-2010 19:33	953805	10-17:0	1.0|LANL	REPORT
s4b2128.d	1246725008	JMB3	21-FEB-2010 19:56	953805	10-17:0	1.0|LANL	REPORT
s4b2129.d	1246725009	JMB3	21-FEB-2010 20:18	953805	10-17:0	1.0|LANL	REPORT
s4b2130.d	1246725010	JMB3	21-FEB-2010 20:40	953805	10-17:0	1.0|LANL	REPORT
s4b2131.d	1246725011	JMB3	21-FEB-2010 21:03	953805	10-17:0	1.0|LANL	REPORT
s4b2132.d	1246732003	JMB3	21-FEB-2010 21:25	953805	10-17:42	1.0|LANL	REPORT
s4b2133.d	1246732004	JMB3	21-FEB-2010 21:47	953805	10-17:42	1.0|LANL	REPORT
s4b2134.d	1246732005	JMB3	21-FEB-2010 22:09	953805	10-17:42	1.0|LANL	REPORT
s4b2135.d	1246732006	JMB3	21-FEB-2010 22:32	953805	10-17:42	1.0|LANL	REPORT: fails ISTD - rerun s4b2046 confirms failure
s4b2136.d	1246442003	JMB3	21-FEB-2010 22:54	951989	10-16:23	1.0|LANL	DUSE: rerun of s4b2022 - confirmation of ISTD failure
s4b2137.d	1246434003	JMB3	21-FEB-2010 23:16	951989	10-16:20	1.0|LANL	DUSE: rerun of s4b2027 - confirmation of ISTD failure

Instrument Batch: /chem/MSD4.i/s022110a.b

Data File: /chem/MSD4.i/s022110a.b/s4b2137.d
Report Date: 22-Feb-2010 08:50

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Data file : /chem/MSD4.i/s022110a.b/s4b2137.d
Lab Smp Id: 246434003 Client Smp ID: RE15-10-8356
Inj Date : 21-FEB-2010 23:16
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |246434003|951989|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1620.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.14000	weight of sample
M	14.66940	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4		152	3.898	3.903	(1.000)	134687	40.0000	
* 29 Naphthalene-d8		136	4.770	4.770	(1.000)	510263	40.0000	
* 46 Acenaphthene-d10		164	6.021	6.027	(1.000)	284649	40.0000	
* 67 Phenanthrene-d10		188	7.016	7.016	(1.000)	465635	40.0000	
* 91 Chrysene-d12		240	8.706	8.717	(1.000)	295693	40.0000	
* 98 Perylene-d12		264	10.225	10.236	(1.000)	133077	40.0000	
\$ 3 2-Fluorophenol		112	3.096	3.090	(0.794)	281432	73.3301	2850
\$ 5 Phenol-d5		99	3.620	3.614	(0.929)	366234	75.9588	2950
\$ 20 Nitrobenzene-d5		82	4.262	4.267	(0.893)	161033	41.0963	1600
\$ 39 2-Fluorobiphenyl		172	5.513	5.513	(0.916)	271445	36.9326	1440
\$ 60 2,4,6-Tribromophenol		329	6.562	6.561	(1.090)	91345	102.610	3990
\$ 81 p-Terphenyl-d14		244	7.936	7.941	(0.912)	277544	60.0442	2330

ION RATIO REPORT

SV REPORT

Data file: s4b2137.d

Report Date: 02/22/2010 07:48

Lab. ID: 246434003

SampleType: SAMPLE

Injection Date: 21-FEB-2010 23:16

Operator: JMB3

Instrument: MSD4.i

Sample Info: |246434003|951989|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01|

Comment:

Method used: /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1620

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4 Aniline		CAS#: 62-53-3				
66	16160	3.62	3.69	80-120	100	(T)
93	4377	3.58	3.69	455-515	27	(QT)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	21594	4.26	4.14	80-120	100	(T)
42	10007	4.26	4.14	24- 84	46	(T)

27 Benzoic acid		CAS#: 65-85-0				
105	3747	4.51	4.55	80-120	100	()
122	3263	4.51	4.55	40-100	87	()
77	2205	4.51	4.55	39- 99	59	()

40 2-Chloronaphthalene		CAS#: 91-58-7				
162	2338	5.75	5.63	80-120	100	(T)
164	115	5.75	5.63	3- 63	5	(T)
127	208	5.75	5.63	6- 66	9	(T)

42 o-Nitroaniline		CAS#: 88-74-4				
65	4118	5.75	5.68	80-120	100	(T)
92	5764	5.76	5.68	40-100	140	(QT)
138	151	5.75	5.68	69-129	4	(QT)

41 m-Nitroaniline		CAS#: 99-09-2				
138	1015	6.00	5.98	80-120	100	()
92	11060	6.00	5.98	101-161	1090	(Q)
108	9365	6.02	5.98	0- 52	923	(Q)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
43 Dimethylphthalate			CAS#: 131-11-3			
163	51223	6.02	5.79	80-120	100	(T)
164	284649	6.02	5.79	0- 40	556	(QT)

44 2,6-Dinitrotoluene			CAS#: 606-20-2			
165	37050	6.02	5.85	80-120	100	(T)
63	6990	6.00	5.85	49-109	19	(QT)

45 Acenaphthylene			CAS#: 208-96-8			
152	34653	6.00	5.93	80-120	100	(T)
151	8897	6.00	5.93	0- 49	26	(T)
153	36987	6.00	5.93	0- 43	107	(QT)

47 Acenaphthene			CAS#: 83-32-9			
154	29879	6.00	6.05	80-120	100	()
153	36987	6.00	6.05	69-129	124	()
152	34653	6.00	6.05	17- 77	116	(Q)

50 2,4-Dinitrotoluene			CAS#: 121-14-2			
165	37050	6.02	6.13	80-120	100	(T)
89	709	6.02	6.13	52-112	2	(QT)
63	6990	6.00	6.13	19- 79	19	(QT)

52 4-Nitrophenol			CAS#: 100-02-7			
139	242	6.11	6.06	80-120	100	()
109	671	6.16	6.06	26- 86	277	(QT)
65	1135	6.07	6.06	73-133	469	(Q)

53 Fluorene			CAS#: 86-73-7			
166	4233	6.56	6.40	80-120	100	(T)
165	3681	6.56	6.40	59-119	87	(T)
167	1347	6.56	6.40	0- 44	32	(T)

61 4-Bromophenylphenylether			CAS#: 101-55-3			
248	4567	6.56	6.71	80-120	100	(T)
141	31927	6.56	6.71	41-101	699	(QT)
250	9580	6.56	6.71	66-126	210	(QT)

85 Butylbenzylphthalate			CAS#: 85-68-7			
149	11445	8.29	8.21	80-120	100	(T)
91	20131	8.29	8.21	52-112	176	(QT)
206	2801	8.30	8.21	0- 54	24	(T)

93 bis(2-Ethylhexyl)phthalate			CAS#: 117-81-7			
149	11267	8.49	8.58	80-120	100	(T)
167	2780	8.47	8.58	3- 63	25	(T)

Q qualifier indicates ion failed ratio requirement
T qualifier indicates RT outside 0.06 minute window of expected RT

Data File: /chem/MSD4.i/s022110a.b/s4b2137.d
Report Date: 22-Feb-2010 08:50

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Data file : /chem/MSD4.i/s022110a.b/s4b2137.d
Lab Smp Id: 246434003 Client Smp ID: RE15-10-8356
Inj Date : 21-FEB-2010 23:16
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |246434003|951989|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022110a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 12:25 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1620.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf *Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.14000	weight of sample
M	14.66940	% moisture

Cpnd Variable

Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.898	845878	40.000
* 46 Acenaphthene-d10	6.021	1961696	40.000
* 67 Phenanthrene-d10	7.016	1155577	40.000
* 91 Chrysene-d12	8.706	739970	40.000
* 98 Perylene-d12	10.225	414513	40.000

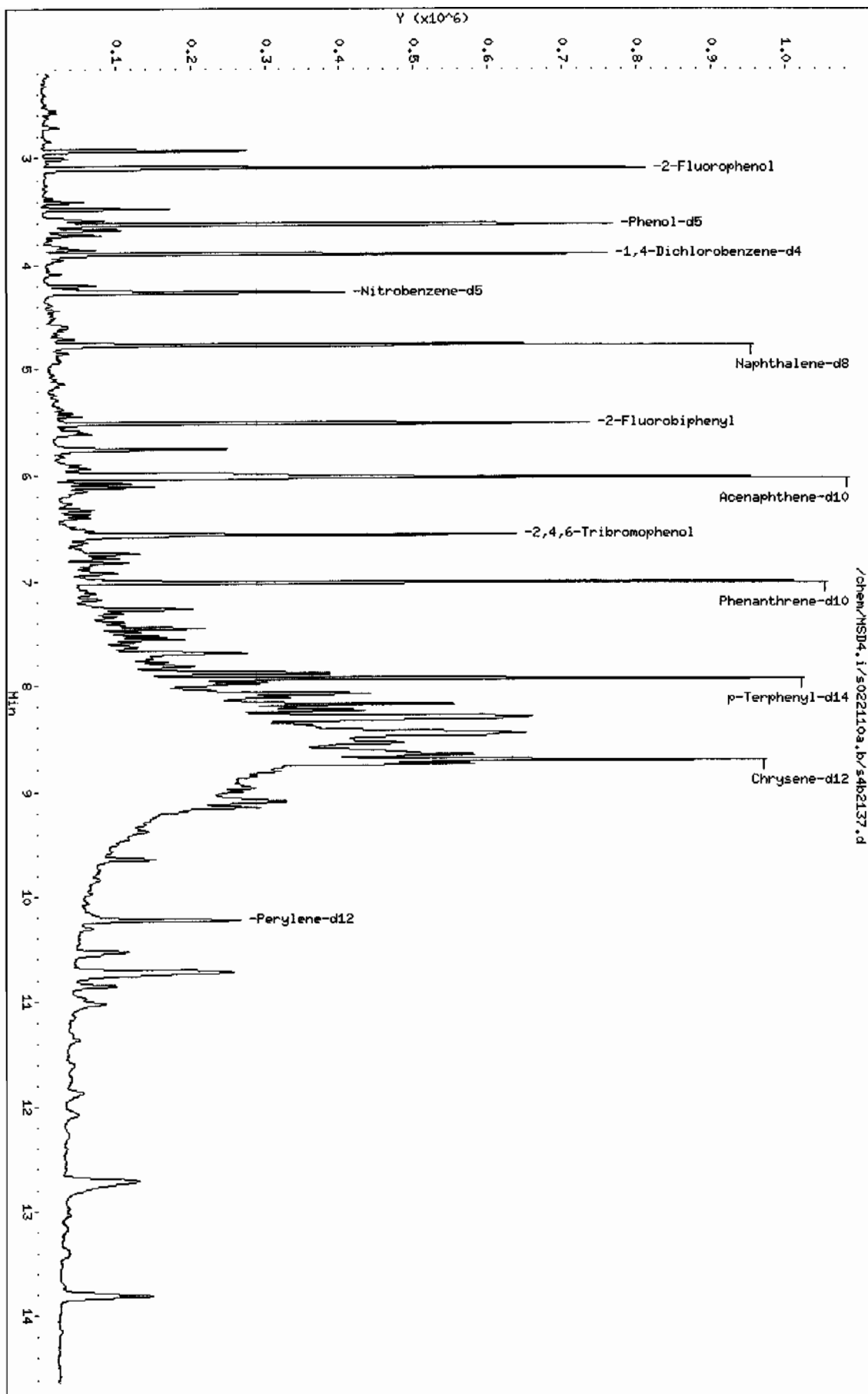
CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
2.930	329494	15.5811346	606	0		0	10
Unknown Aldol Condensate				CAS #:			
3.470	186165	8.80340938	342	96	NIST05.L	15178	10
.alpha.-Pinene				CAS #: 80-56-8			
3.582	138594	6.55382303	255	0		0	10
Unknown				CAS #:			
5.754	315791	6.43914509	250	96	NIST05.L	59971	46
Bicyclo[7.2.0]undec-4-ene, 4,11,11-trime				CAS #: 118-65-0			
7.268	186512	6.45607106	251	98	NIST05.L	96235	67
n-Hexadecanoic acid				CAS #: 57-10-3			
7.460	157772	5.46124288	212	0		0	67
Unknown				CAS #:			
7.690	351550	12.1688024	473	98	NIST05.L	111993	67
9,12-Octadecadienoic acid (Z,Z)-				CAS #: 60-33-3			
7.819	132358	4.58154600	178	0		0	67
Unknown				CAS #:			
7.888	483593	26.1411858	1020	0		0	91
Unknown				CAS #:			
7.979	273859	14.8037562	576	0		0	91
Unknown				CAS #:			
8.075	312056	16.8685440	656	0		0	91
(1R,2S,8R,8Ar)-8-hydroxy-1-(2-hydroxyeth				CAS #: 1000298-98-3			
8.113	154645	8.35949954	325	91	NIST05.L	94835	91
1-Phenanthrenecarboxylic acid, 7-ethenyl				CAS #: 1686-62-0			
8.182	429722	23.2291504	903	95	NIST05.L	134785	91
1-Phenanthrenecarboxylic acid, 1,2,3,4,4				CAS #: 1235-74-1			
8.236	205005	11.0818024	431	96	NIST05.L	133618	91
Unknown				CAS #:			
8.295	1137442	61.4857534	2390	0		0	91

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Unknown					CAS #:		
8.444	600038	32.4357699	1260	0		0	91
Unknown					CAS #:		
8.466	279543	15.1110423	588	0		0	91
13-Tetradecen-1-ol acetate					CAS #: 56221-91-1		
8.541	297360	16.0741445	625	90	NIST05.L	94752	91
Unknown					CAS #:		
8.658	339723	18.3641456	714	0		0	91
Unknown					CAS #:		
8.738	367348	19.8574131	772	0		0	91
Unknown					CAS #:		
9.091	279828	15.1264504	588	0		0	91
Unknown					CAS #:		
9.150	155621	8.41226938	327	0		0	91
Eicosane					CAS #: 112-95-8		
9.642	140809	13.5878607	528	95	NIST05.L	113489	98
Unknown					CAS #:		
10.530	188500	18.1900357	707	0		0	98
Unknown					CAS #:		
10.723	680500	65.6673899	2550	0		0	98
Unknown					CAS #:		
10.857	129839	12.5293374	487	0		0	98
2(3H)-Furanone, dihydro-3,4-bis[(4-hydro					CAS #: 580-72-3		
11.028	150380	14.5114357	564	93	NIST05.L	156200	98
.beta.-Sitosterol					CAS #: 83-46-5		
12.713	578667	55.8405598	2170	99	NIST05.L	174399	98
Stigmast-4-en-3-one					CAS #: 1058-61-3		
13.814	405494	39.1296143	1520	98	NIST05.L	173936	98

Data File: /chem/HSD4.i/s022110a.b/s4b2137.d
Date: 21-FEB-2010 23:16
Client ID: RE15-10-8356
Sample Info: 124634003195198911SVH11.LANL
Volume Injected (uL): 0.5
Column phase: J&W DB-5MS

Instrument: HSD4.i
Operator: JHB3
Column diameter: 0.20



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 1246434003195198911ISVMI1ILANL

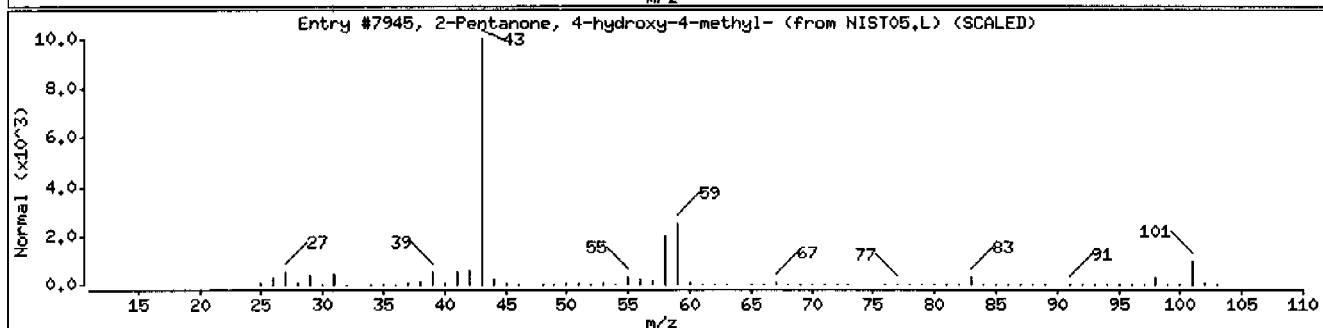
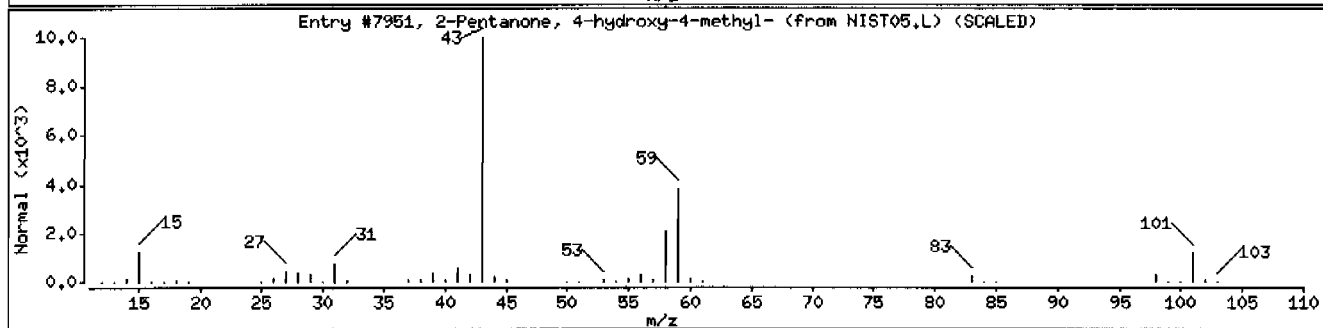
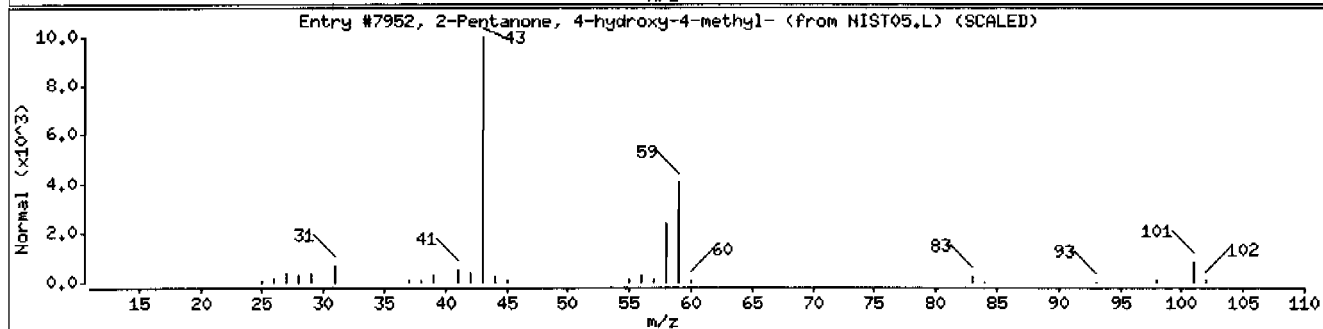
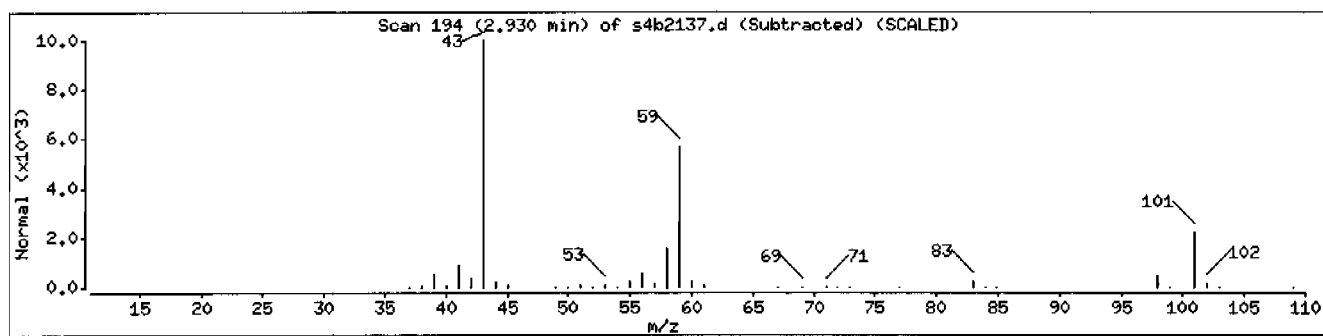
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	56	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7945	32	C6H12O2	116



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: I246434003I95198911ISVM11ILANL

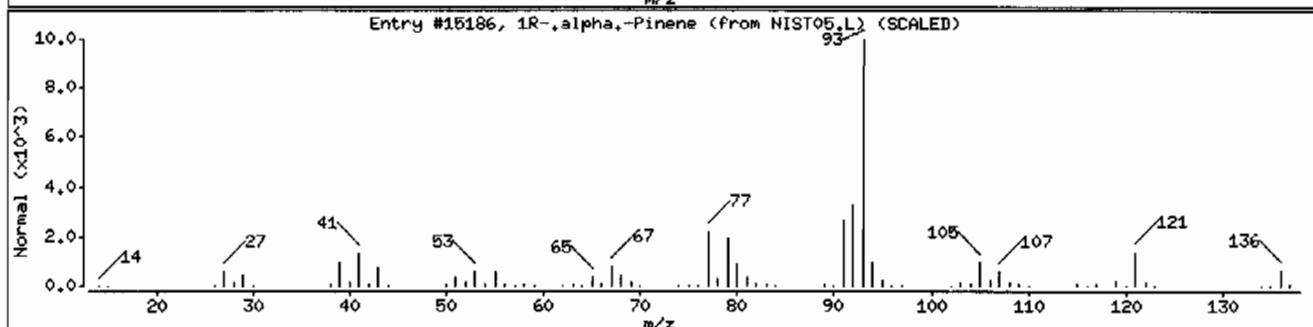
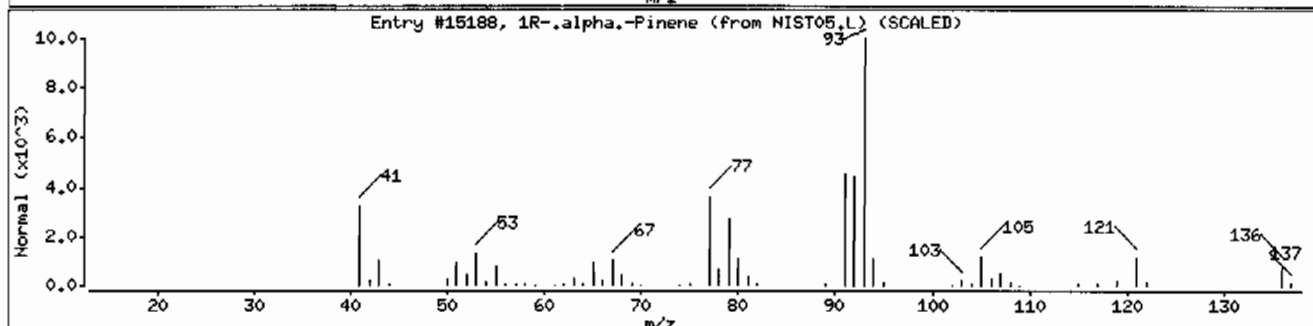
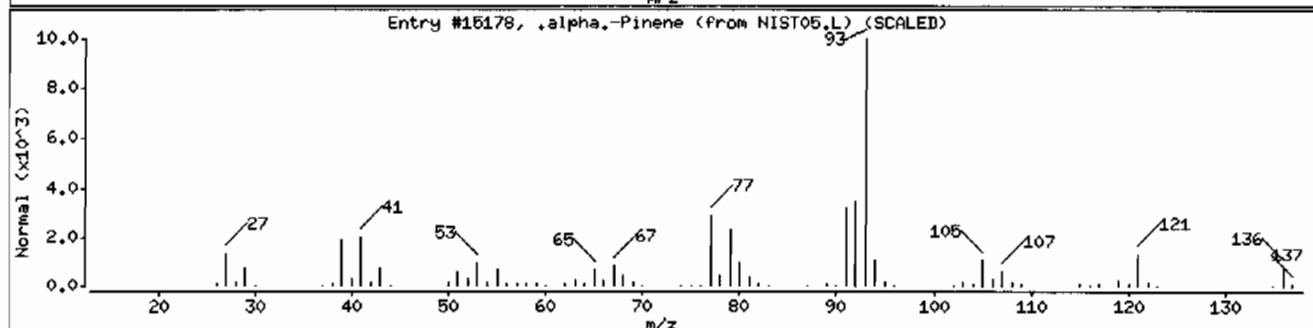
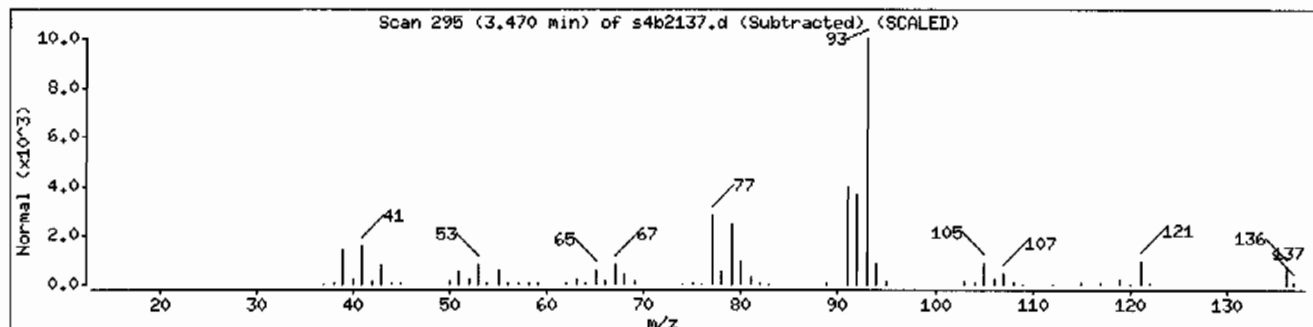
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
,alpha,-Pinene	80-56-8	NIST05.L	15178	96	C10H16	136
1R-,alpha,-Pinene	7785-70-8	NIST05.L	15188	95	C10H16	136
1R-,alpha,-Pinene	7785-70-8	NIST05.L	15186	95	C10H16	136



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 1246434003195198911ISVH11ILANL

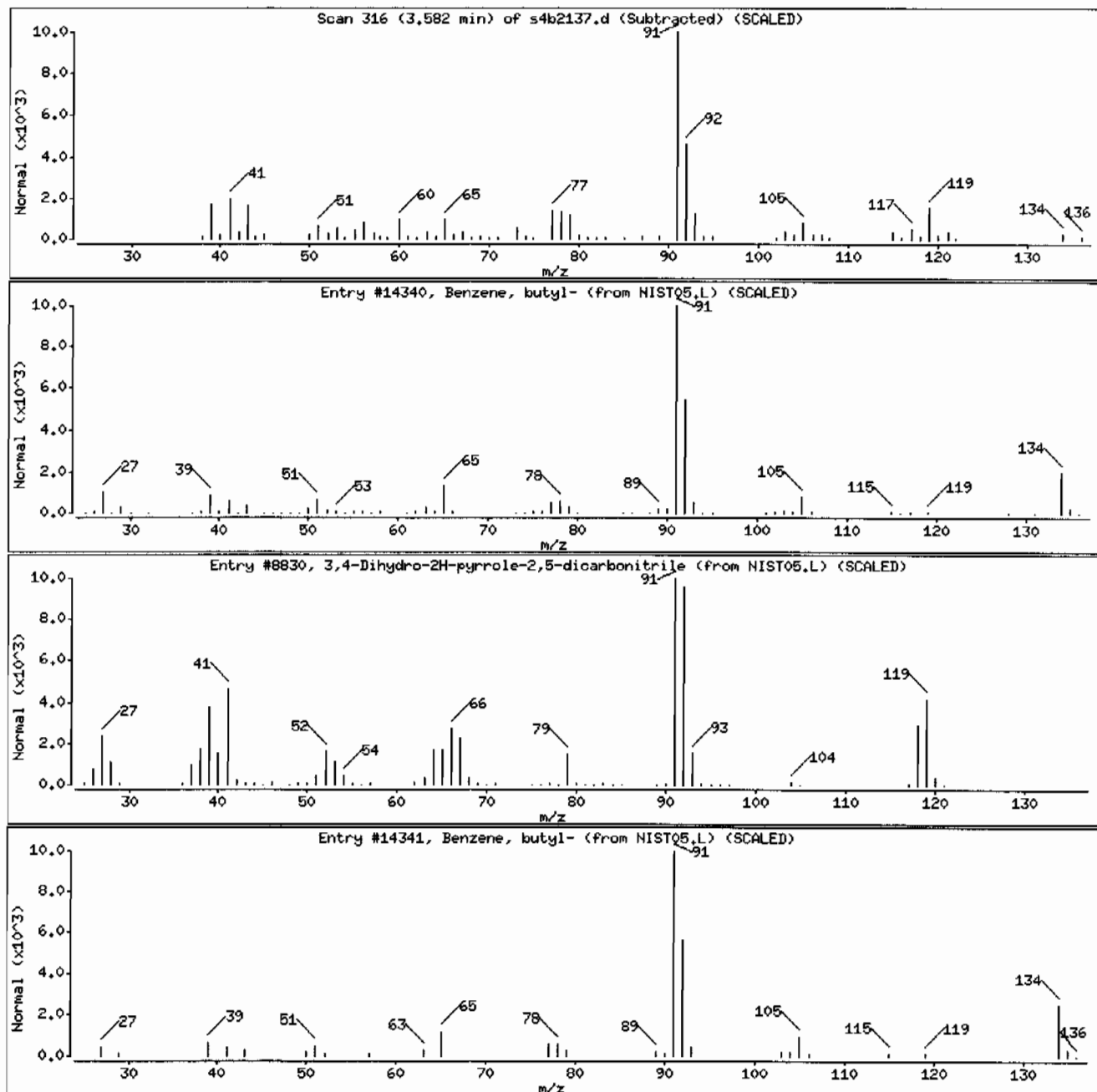
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, butyl-	104-51-8	NIST05.L	14340	47	C10H14	134
3,4-Dihydro-2H-pyrrole-2,5-dicarbonitril	1000189-98-9	NIST05.L	8830	47	C6H5N3	119
Benzene, butyl-	104-51-8	NIST05.L	14341	43	C10H14	134



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: I246434003195198911ISVMI1ILANL

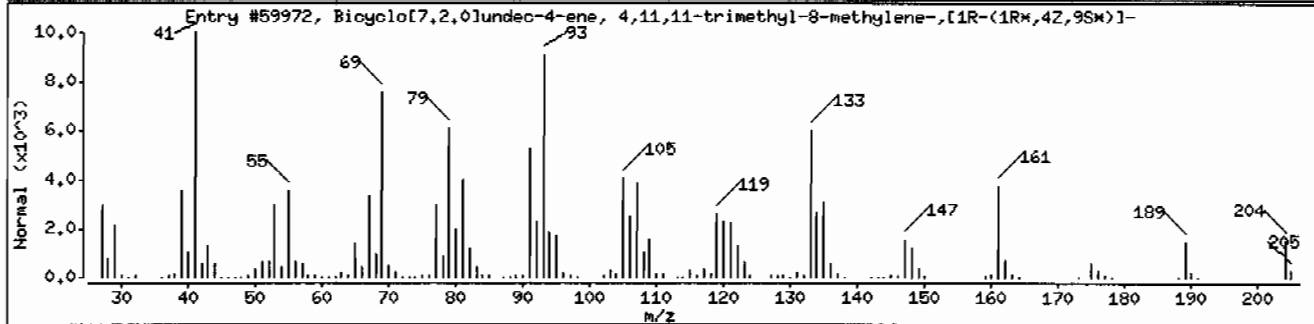
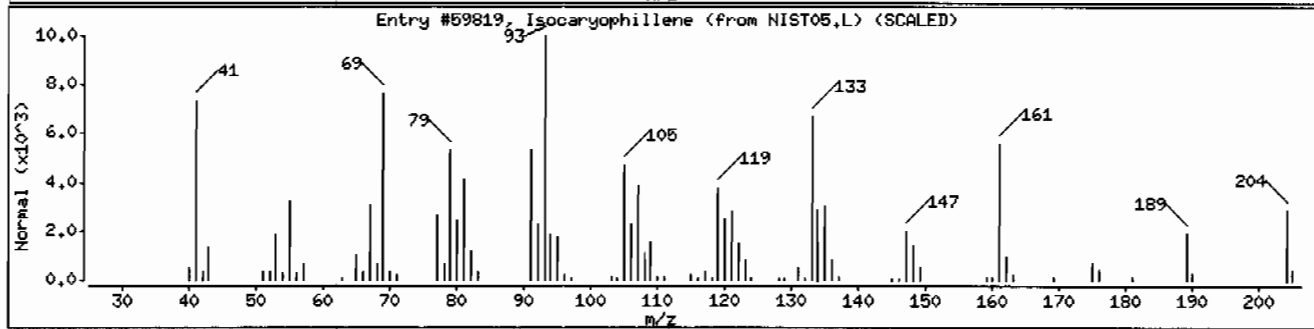
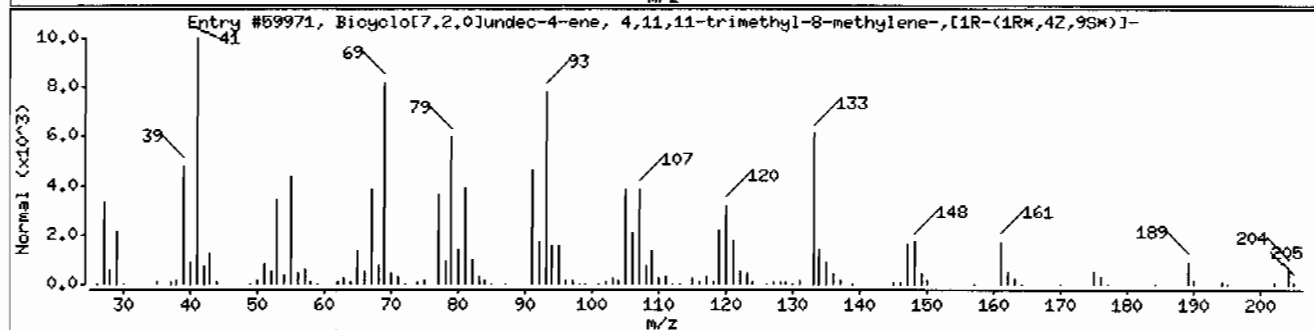
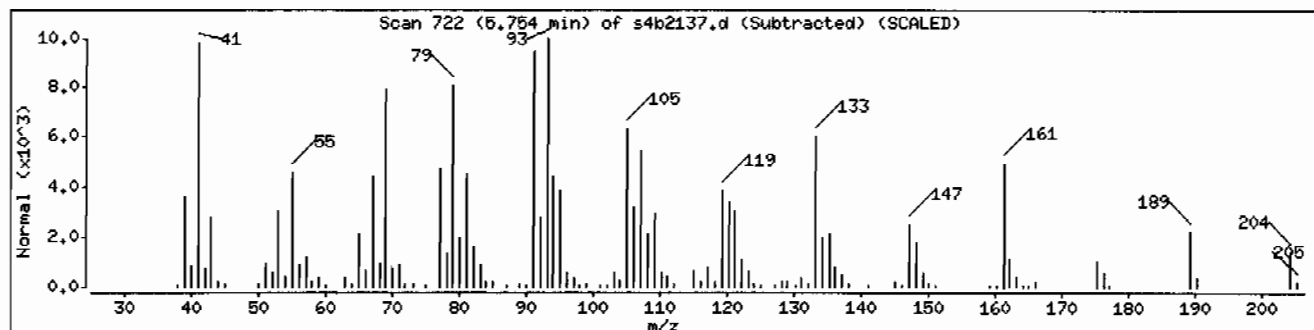
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Bicyclo[7.2.0]undec-4-ene, 4,11,11-trime	118-65-0	NIST05.L	59971	96	C15H24	204
Isocaryophyllene	1000140-07-2	NIST05.L	59819	93	C15H24	204
Bicyclo[7.2.0]undec-4-ene, 4,11,11-trime	118-65-0	NIST05.L	59972	89	C15H24	204



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: I246434003I95198911ISVH11ILANL

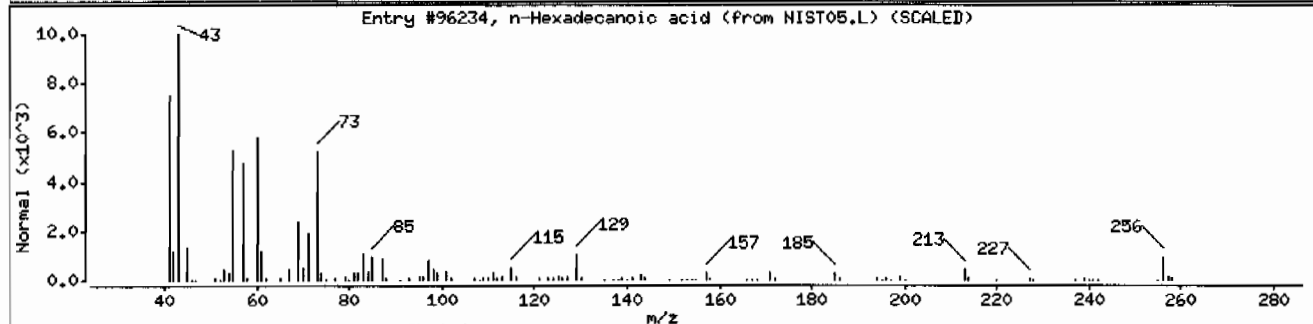
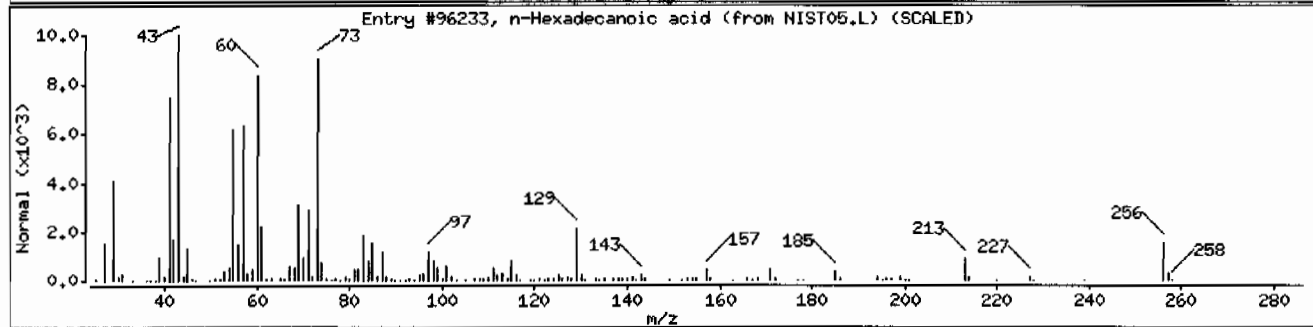
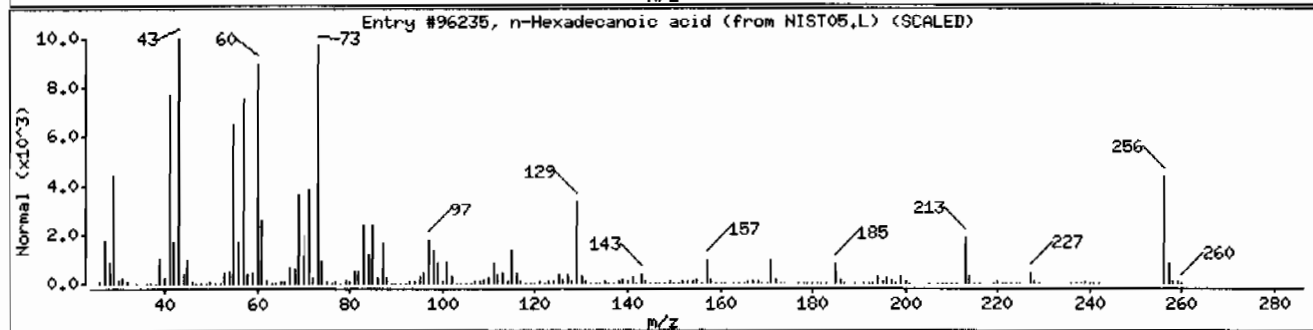
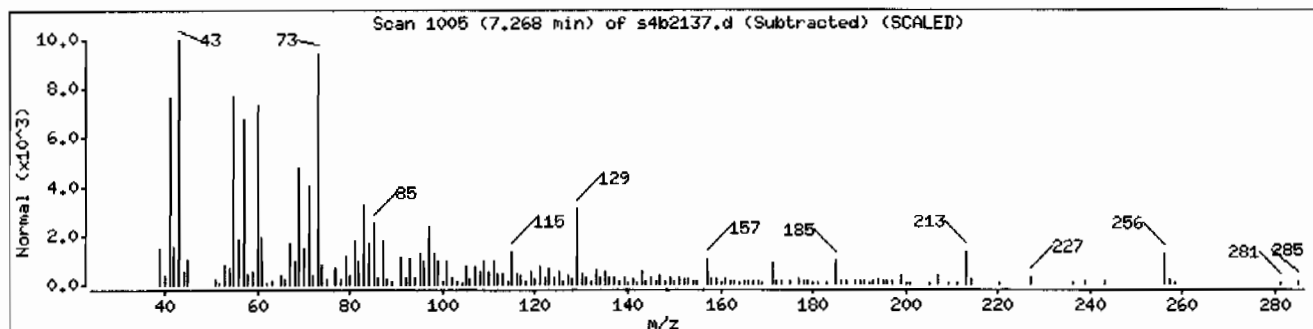
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
n-Hexadecanoic acid	57-10-3	NIST05.L	96235	98	C16H32O2	256
n-Hexadecanoic acid	57-10-3	NIST05.L	96233	95	C16H32O2	256
n-Hexadecanoic acid	57-10-3	NIST05.L	96234	94	C16H32O2	256



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: HSD4.i

Sample Info: I246434003I951989I11SVHI11LANL

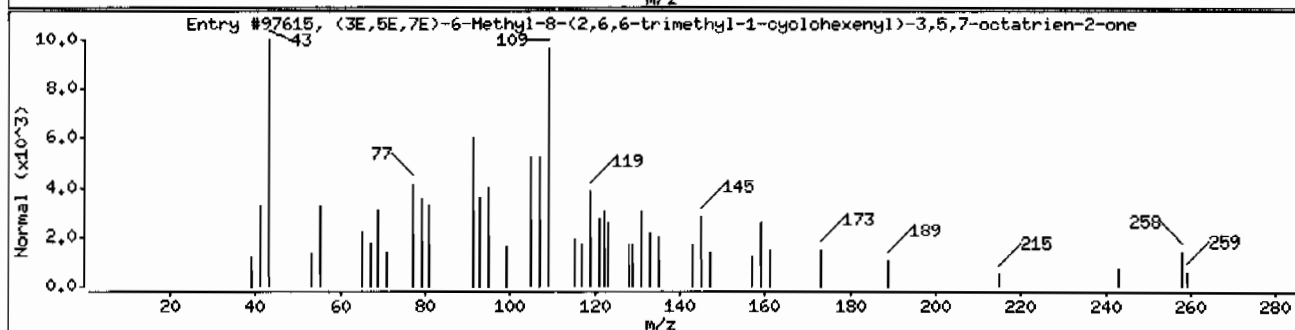
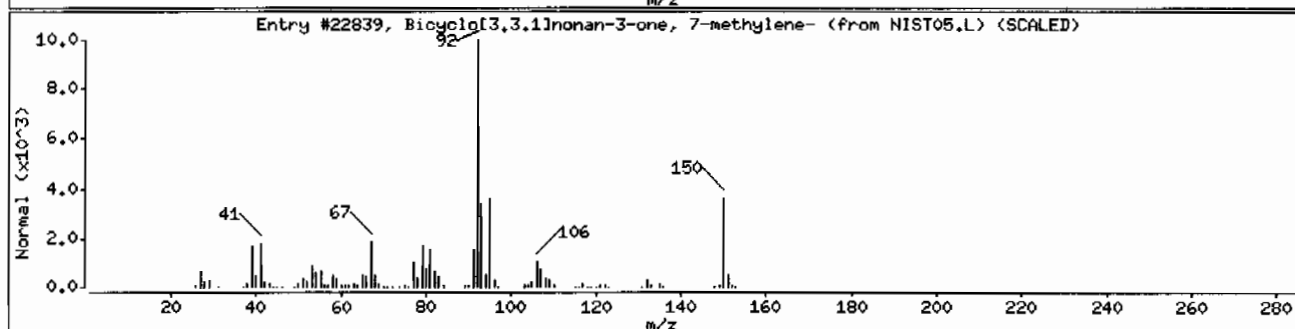
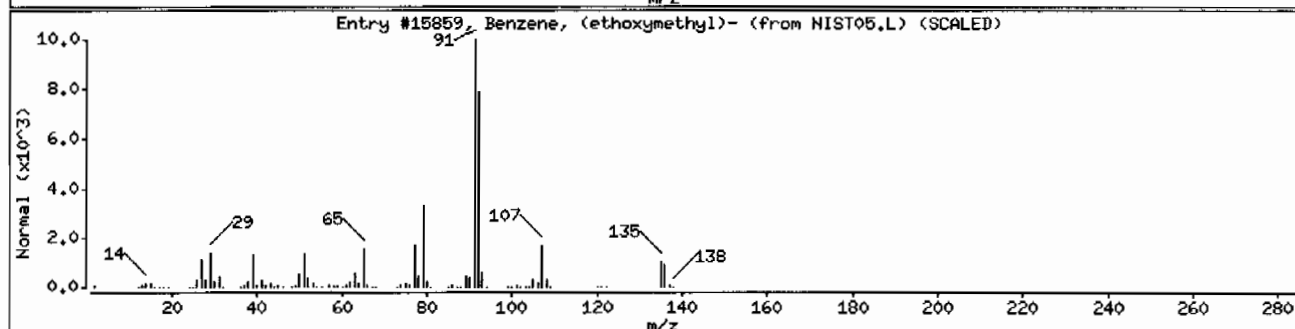
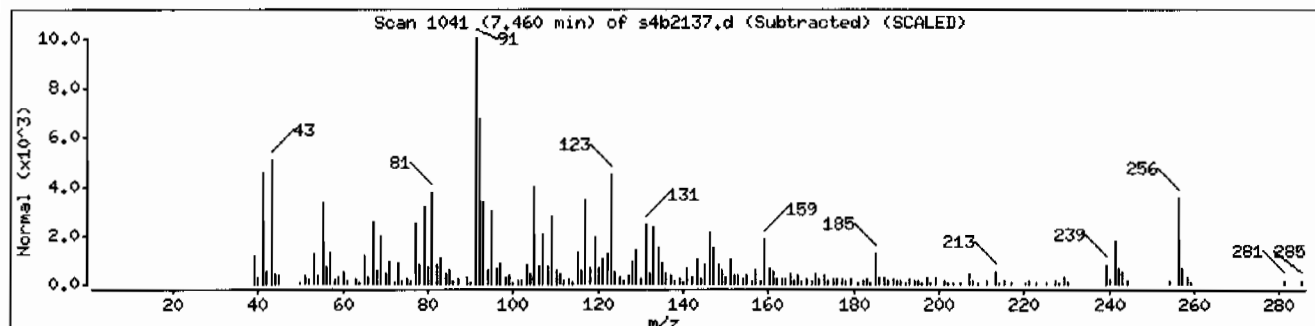
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, (ethoxymethyl)-	539-30-0	NIST05.L	15859	11	C9H12O	136
Bicyclo[3.3.1]nonan-3-one, 7-methylene-	17933-29-8	NIST05.L	22839	11	C10H14O	150
(3E,5E,7E)-6-Methyl-8-(2,6,6-trimethyl-1	17974-57-1	NIST05.L	97615	11	C18H26O	258



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: I246434003195198911ISVH111LANL

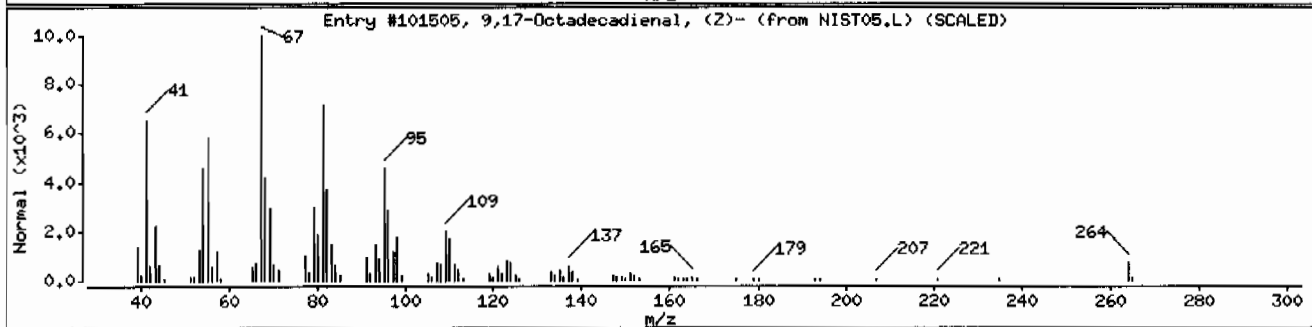
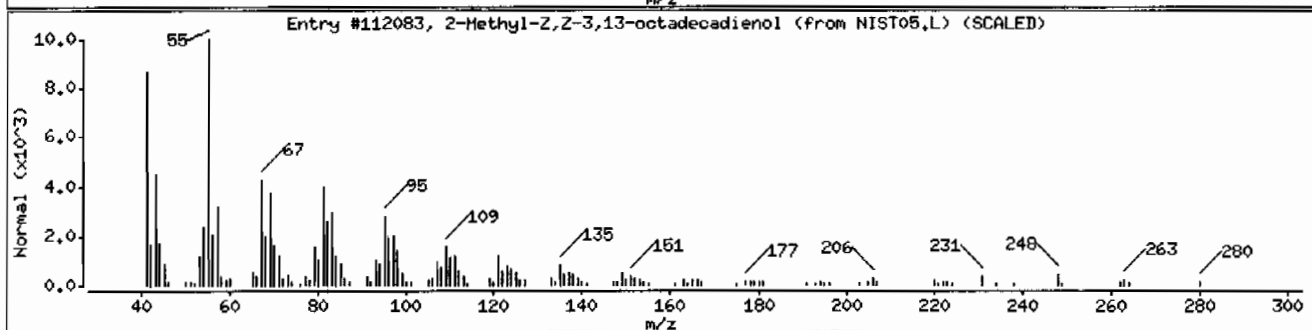
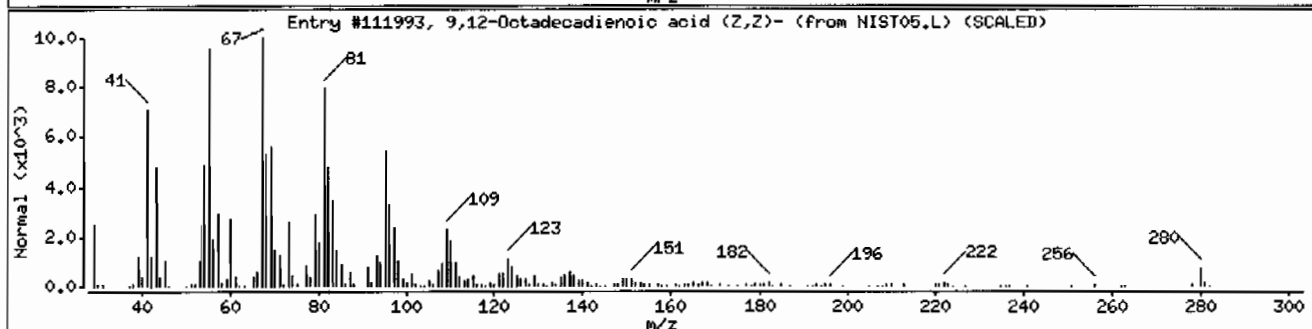
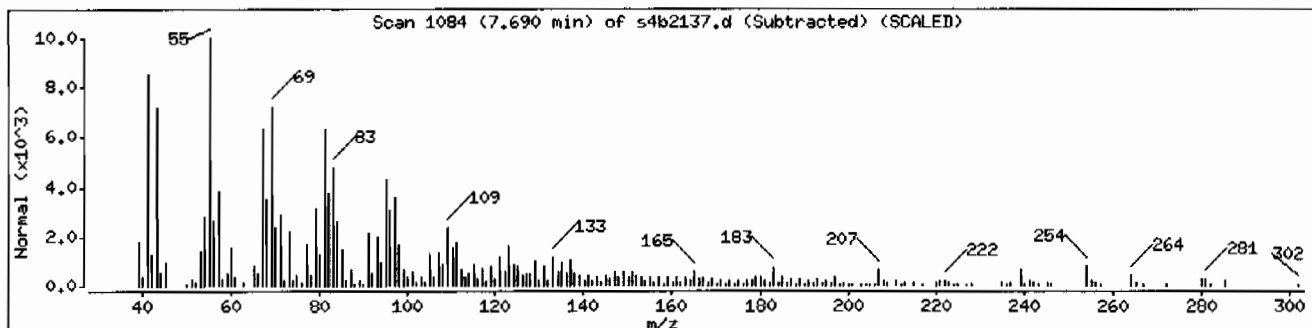
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9,12-Octadecadienoic acid (Z,Z)-	60-33-3	NIST05.L	111993	98	C18H32O2	280
2-Methyl-Z,Z-3,13-octadecadienol	1000130-90-5	NIST05.L	112083	96	C19H36O	280
9,17-Octadecadienal, (Z)-	56554-35-9	NIST05.L	101505	96	C18H32O	264



Date: 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 1246434003195198911SVH11ILANL

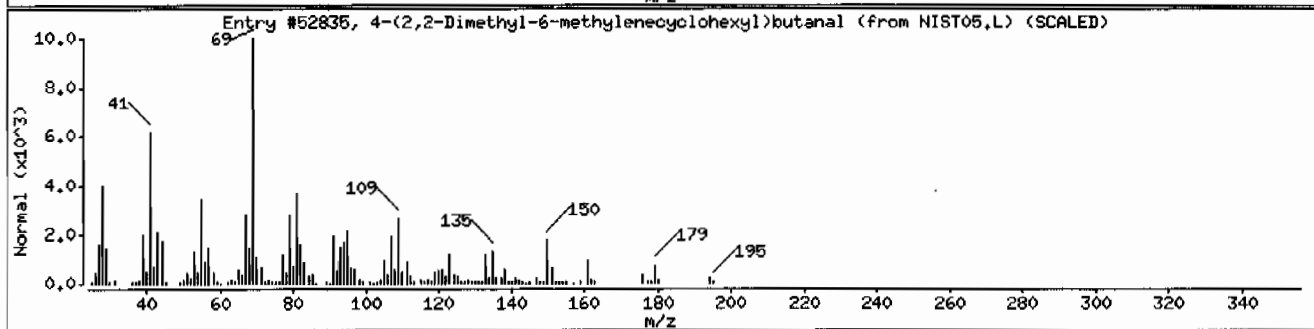
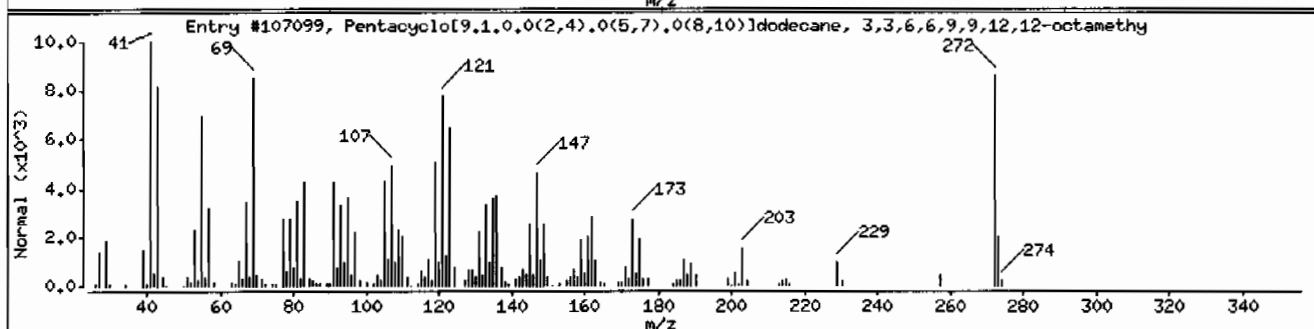
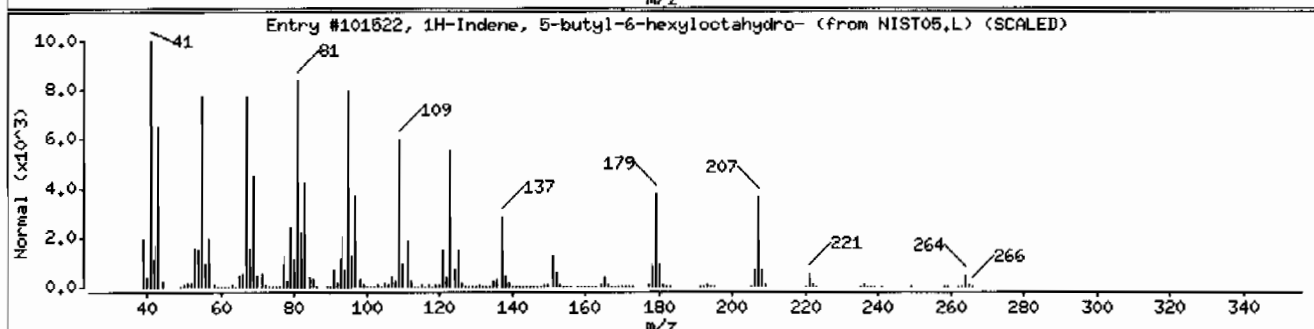
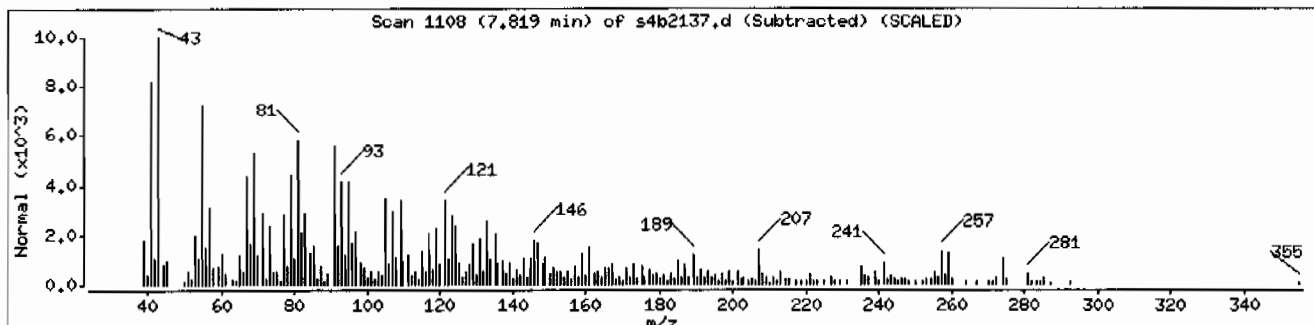
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1H-Indene, 5-butyl-6-hexyloctahydro-	55044-36-5	NIST05.L	101522	72	C19H36	264
Pentacyclo[9.1.0.0(2,4).0(5,7).0(8,10)]d	1000152-38-2	NIST05.L	107099	62	C20H32	272
4-(2,2-Dimethyl-6-methylenecyclohexyl)bu	95452-13-4	NIST05.L	52835	49	C13H22O	194



Date: 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 12464340031951989111SVH111LANL

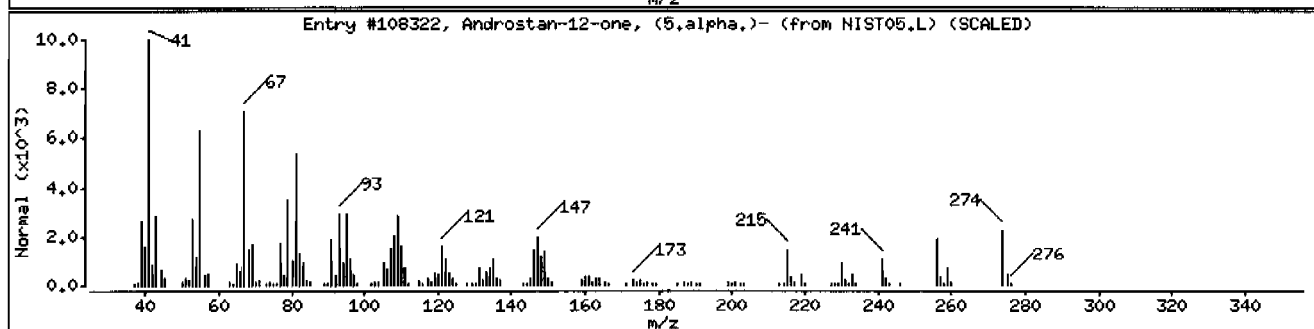
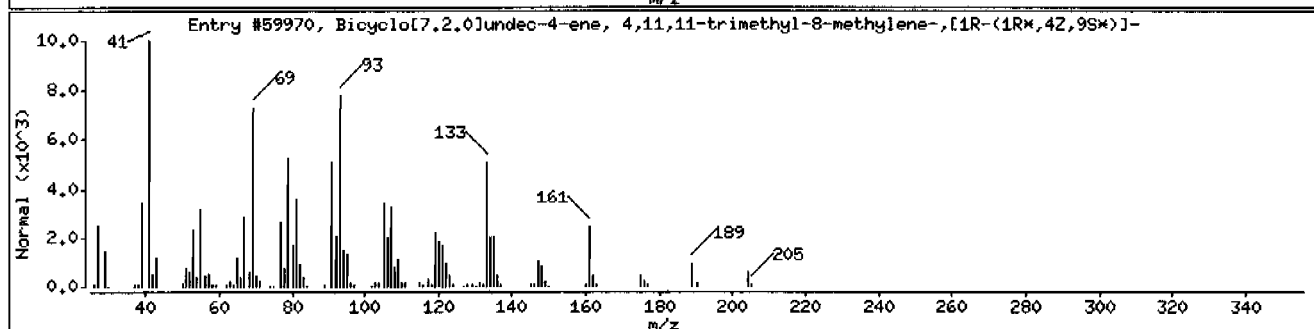
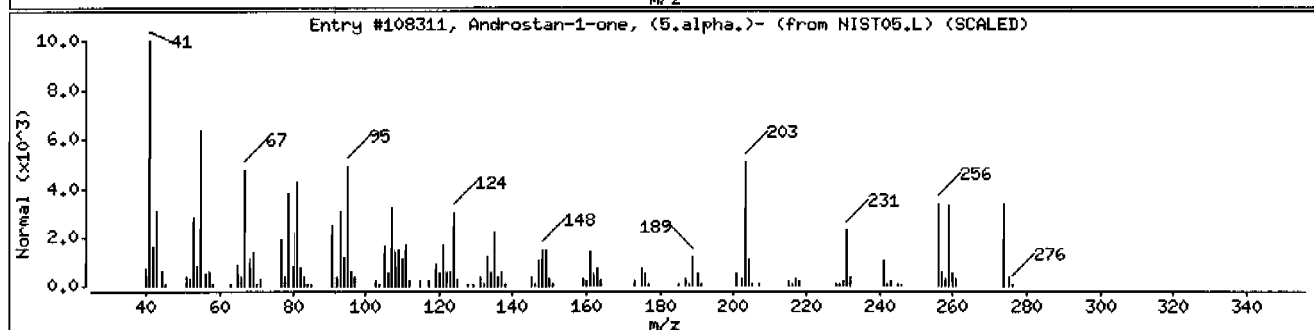
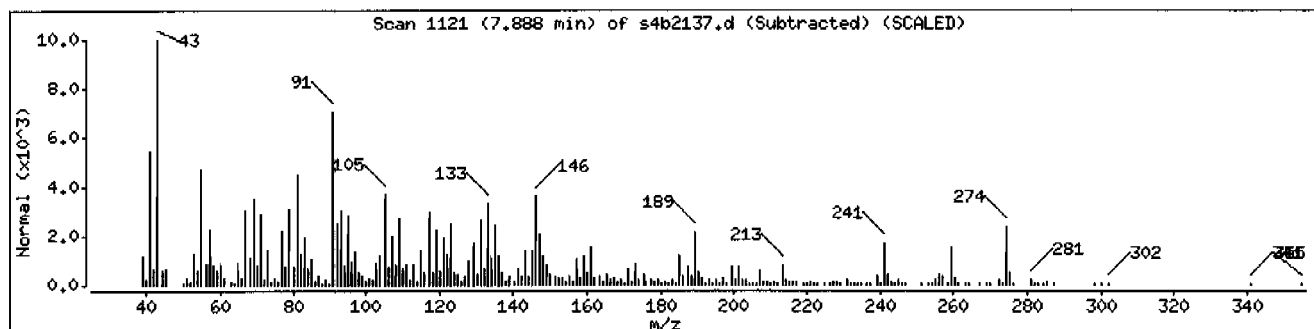
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Androstan-1-one, (5.alpha.)-	1755-29-9	NIST05.L	108311	25	C19H30O	274
Bicyclo[7.2.0]undec-4-ene, 4,11,11-trimethyl-	118-65-0	NIST05.L	59970	22	C15H24	204
Androstan-12-one, (5.alpha.)-	3676-09-3	NIST05.L	108322	14	C19H30O	274



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: I246434003195198911SVH11ILANL

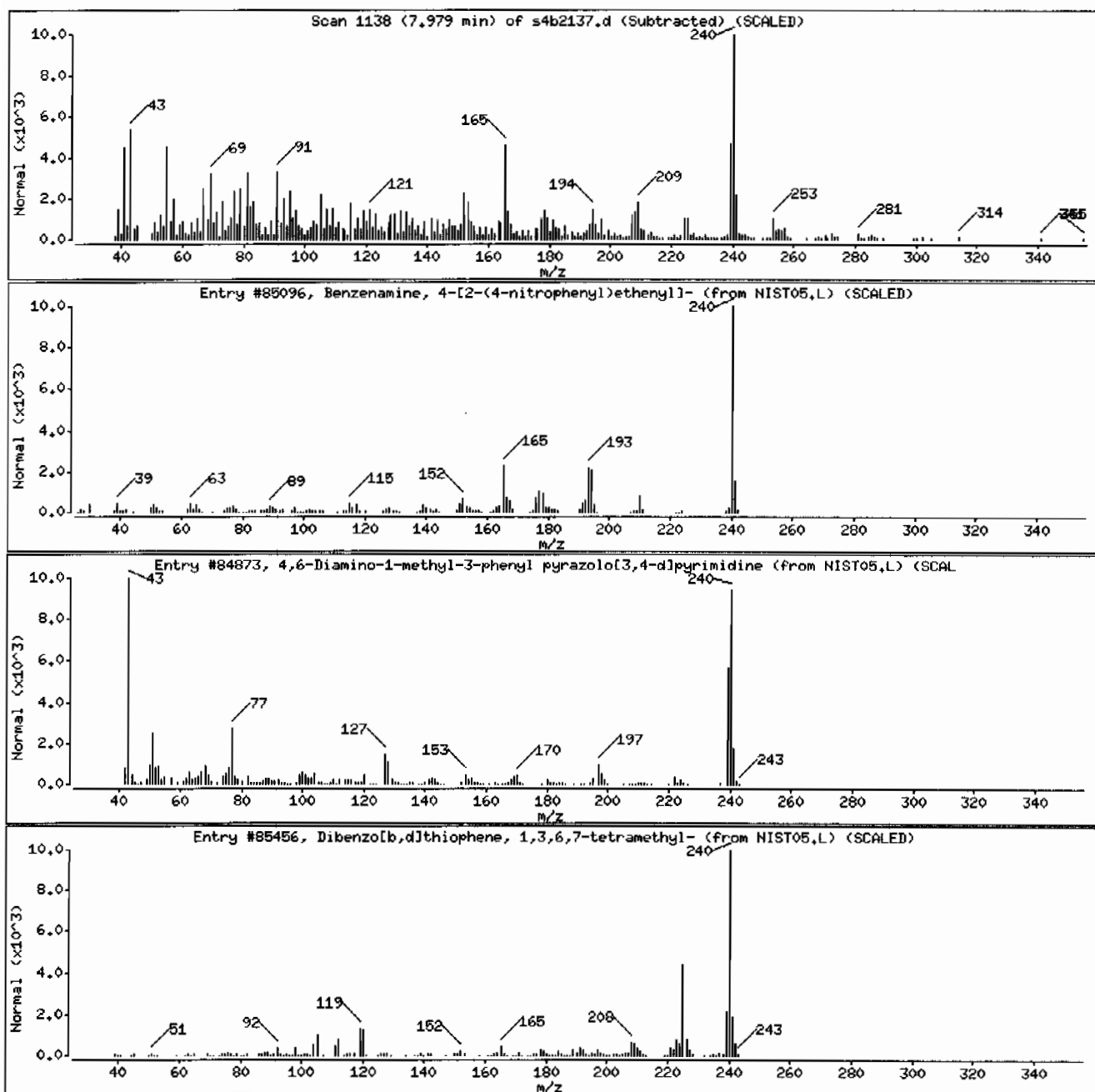
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzenamine, 4-[2-(4-nitrophenyl)ethenyl]	4629-58-7	NIST05.L	85096	50	C14H12N2O2	240
4,6-Diamino-1-methyl-3-phenyl pyrazolo[3,4-d]pyrimidine	58791-67-6	NIST05.L	84873	49	C12H12N6	240
Dibenzo[b,d]thiophene, 1,3,6,7-tetrameth	1000266-22-2	NIST05.L	85456	49	C16H16S	240



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: HSD4.i

Sample Info: 1246434003195198911ISVH11ILANL

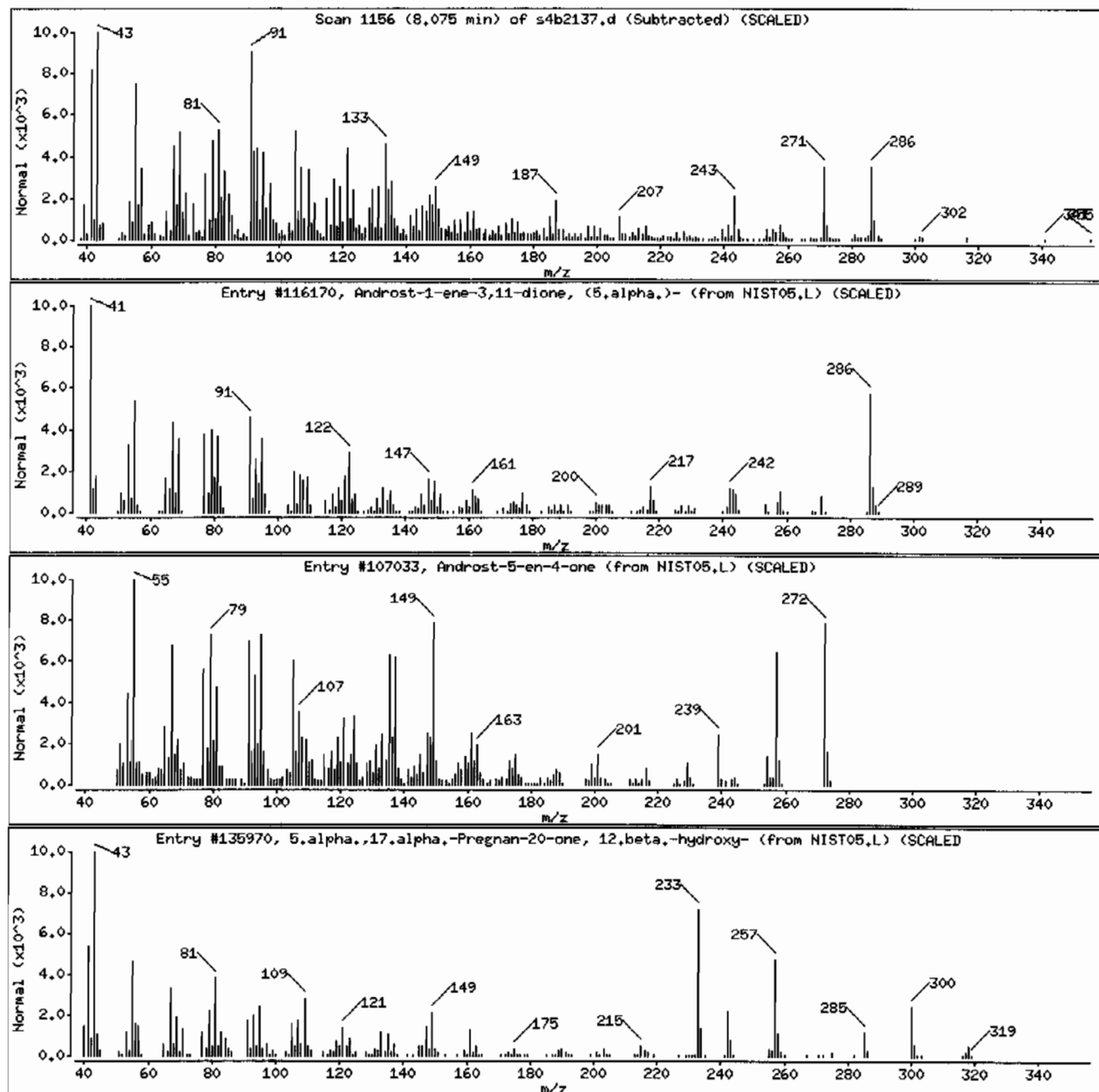
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Androst-1-ene-3,11-dione, (5.alpha.)-	54498-86-1	NIST05.L	116170	49	C19H26O2	286
Androst-5-en-4-one	13583-72-7	NIST05.L	107033	38	C19H28O	272
5.alpha.,17.alpha.-Pregnan-20-one, 12.beta.	5618-23-5	NIST05.L	135970	27	C21H34O2	318



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 1246434003195198911SVMI11LANL

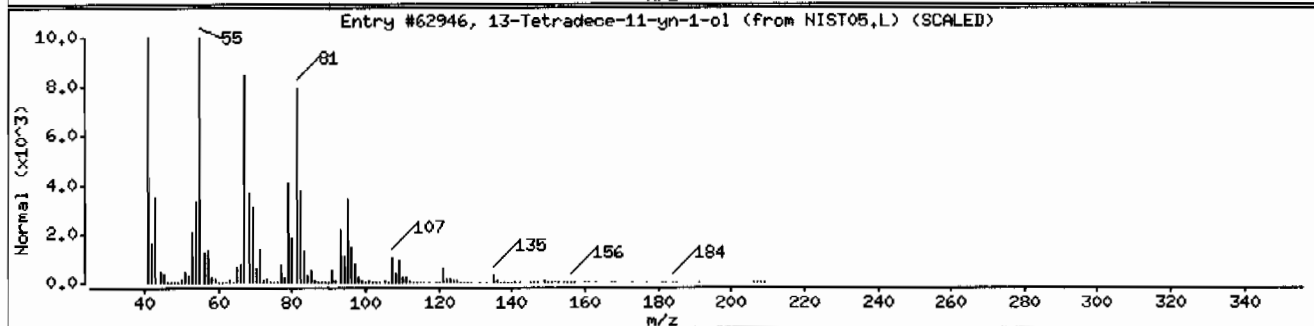
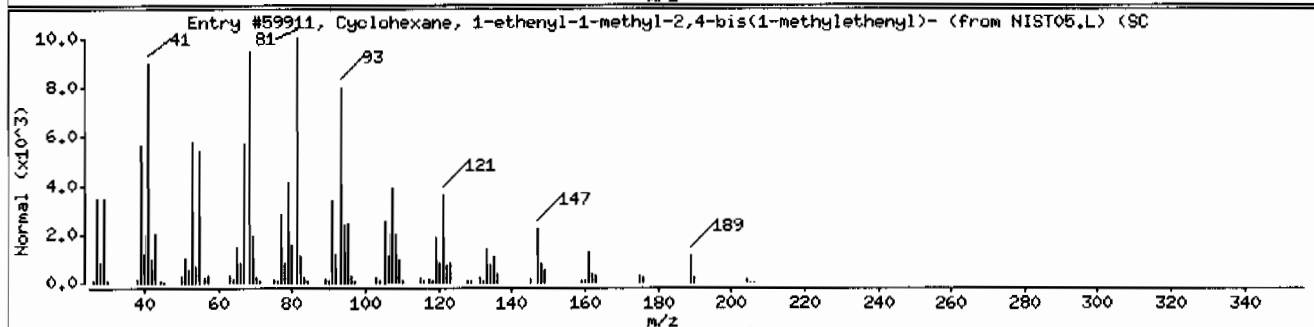
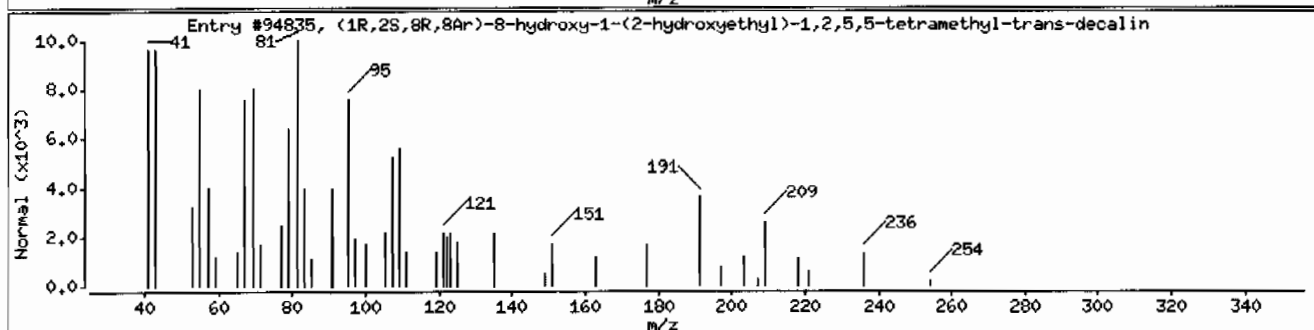
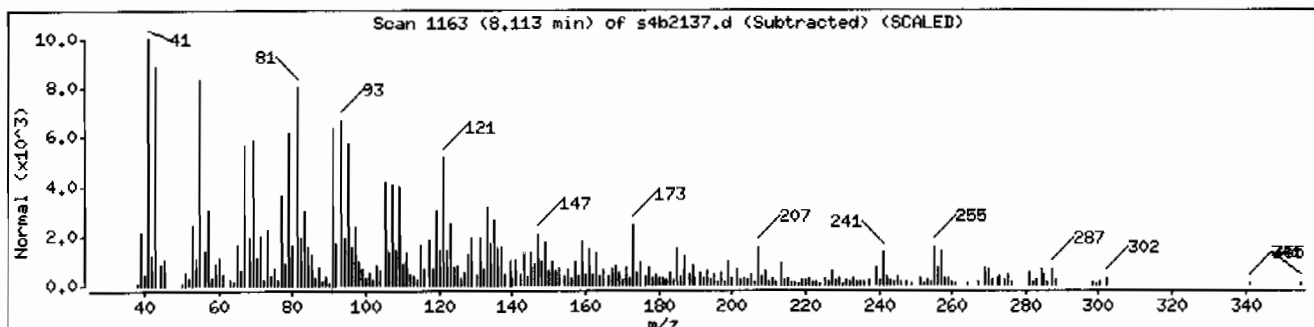
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
(1R,2S,8R,8Ar)-8-hydroxy-1-(2-hydroxyethyl	1000298-98-3	NIST05.L	94835	91	C16H30O2	254
Cyclohexane, 1-ethenyl-1-methyl-2,4-bis(	110823-68-2	NIST05.L	59911	60	C15H24	204
13-Tetradec-11-yn-1-ol	1000131-00-4	NIST05.L	62946	60	C14H24O	208



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8386

Instrument: HSD4.i

Sample Info: 12464340031951989111SVMI11LANL

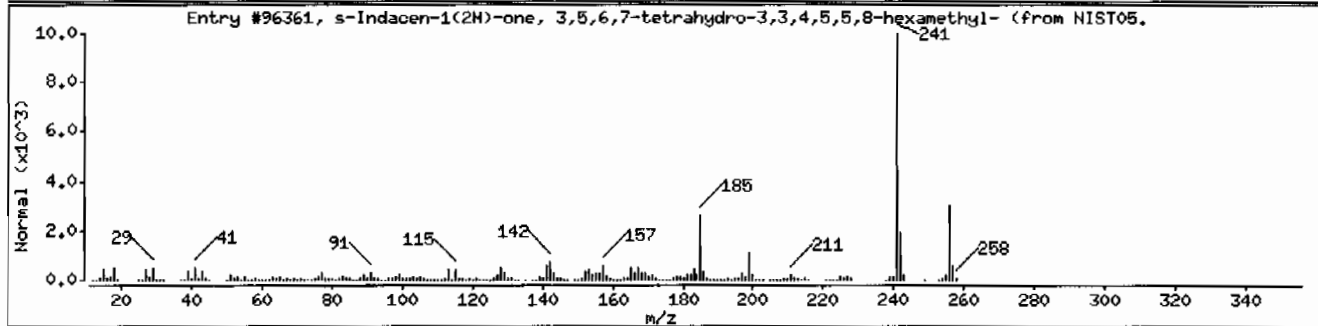
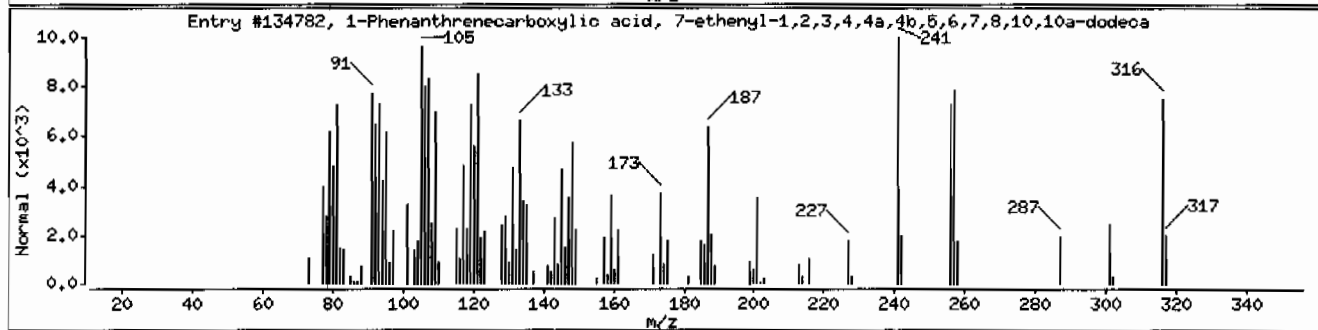
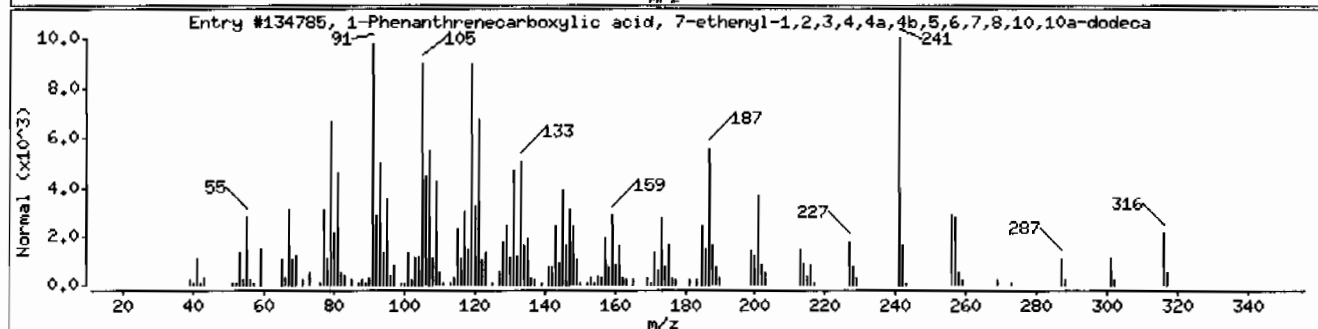
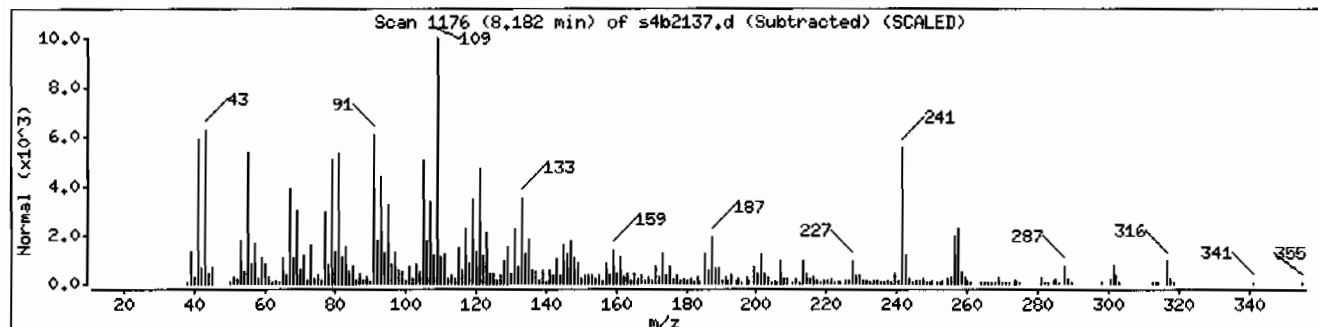
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Phenanthrenecarboxylic acid, 7-ethenyl	1686-62-0	NIST05.L	134785	95	C21H32O2	316
1-Phenanthrenecarboxylic acid, 7-ethenyl	1686-62-0	NIST05.L	134782	47	C21H32O2	316
s-Indacen-1(2H)-one, 3,5,6,7-tetrahydro-	38754-94-8	NIST05.L	96361	42	C18H24O	256



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: HSD4.i

Sample Info: 12464340031951989111SVH111LANL

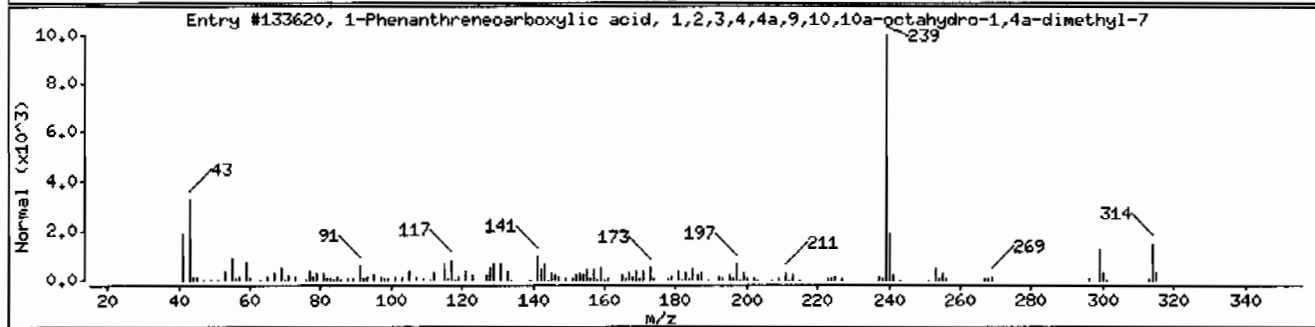
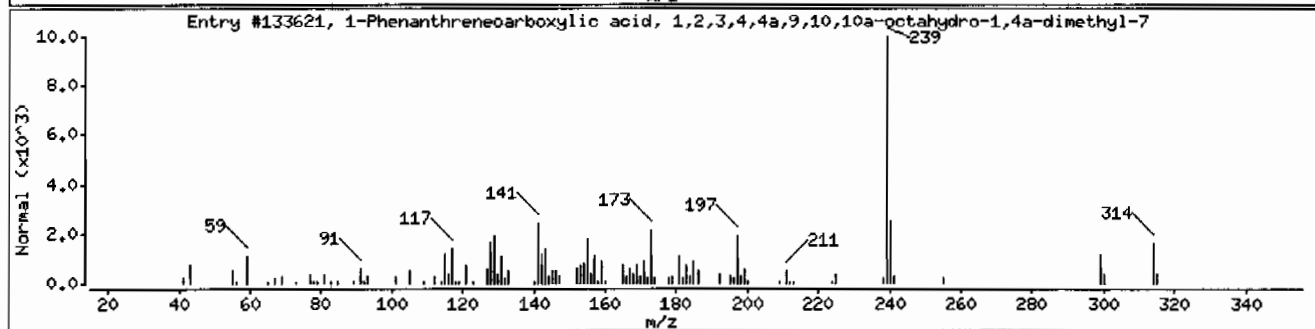
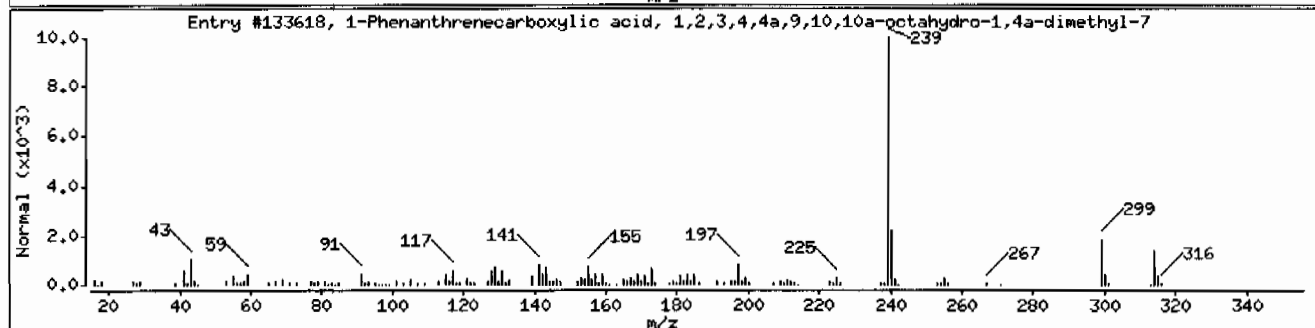
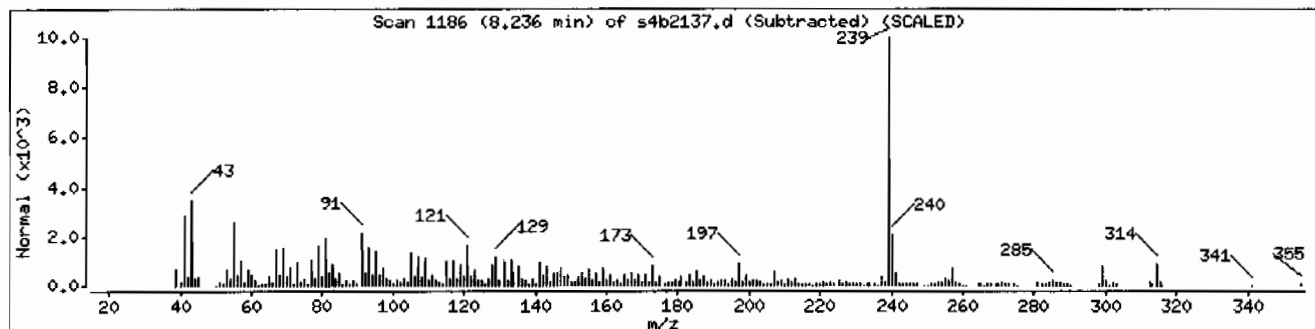
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
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1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1235-74-1	NIST05.L	133621	93	C21H30O2	314
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1235-74-1	NIST05.L	133620	93	C21H30O2	314



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: I2464340031951989111SVH111LANL

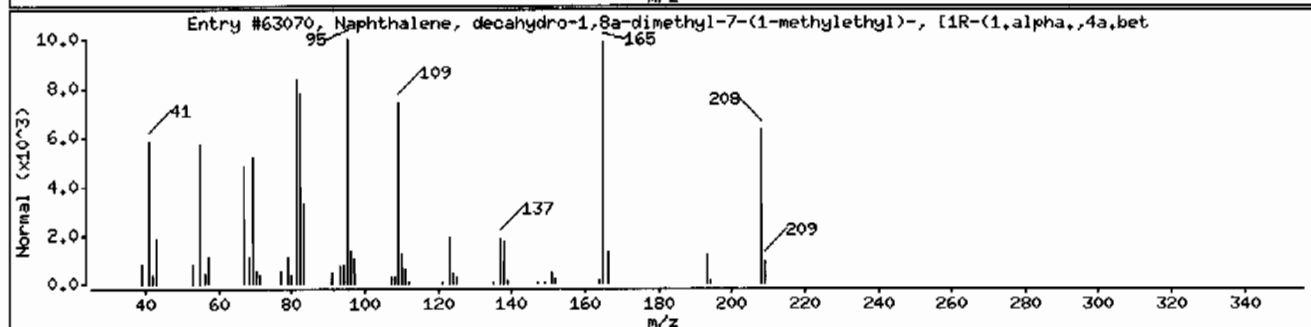
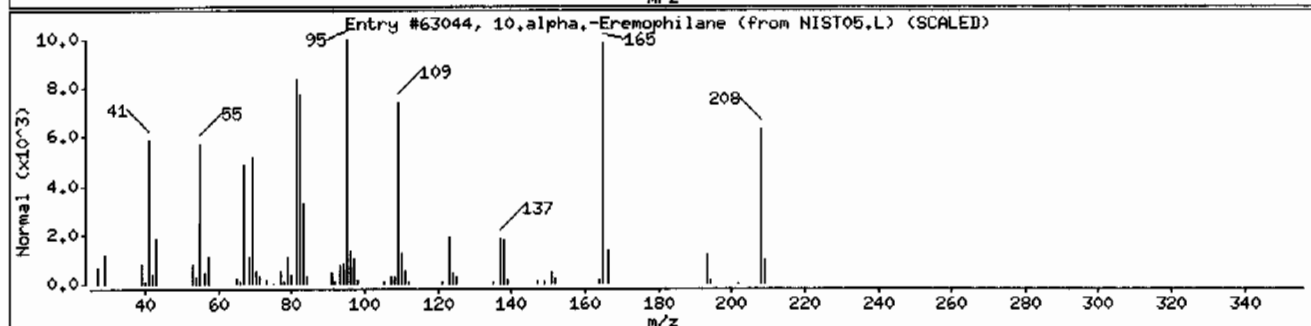
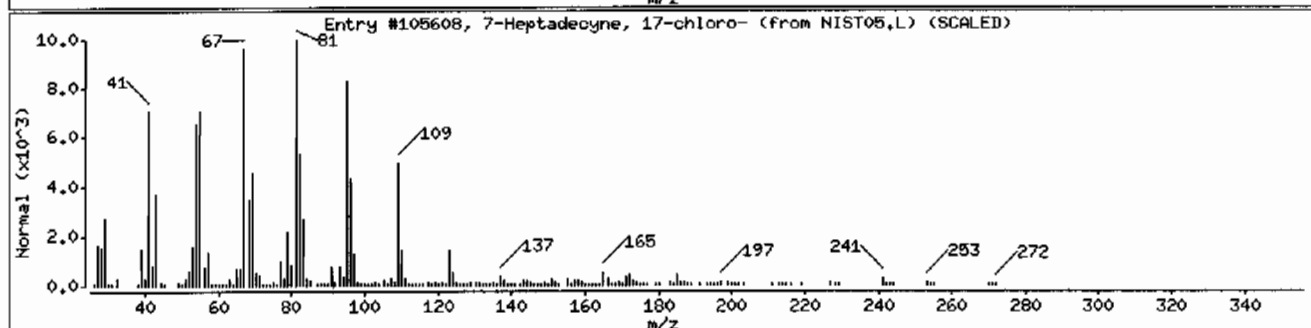
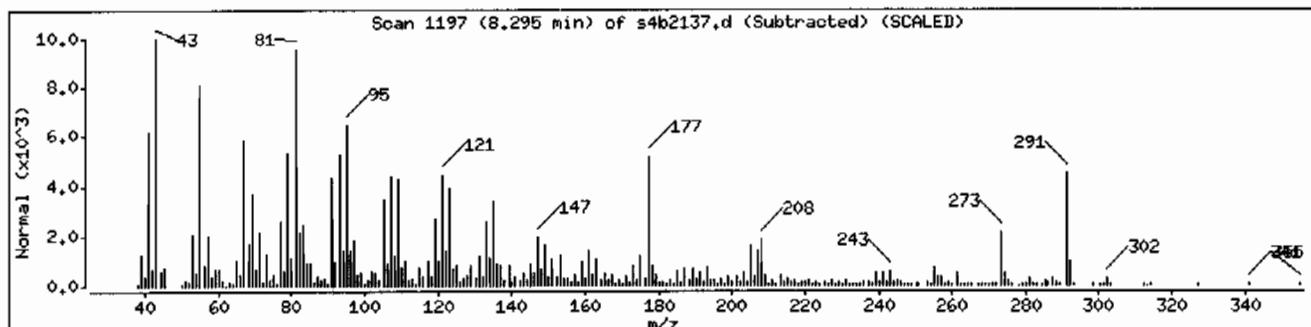
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
7-Heptadecyne, 17-chloro-	56554-75-7	NIST05.L	105608	38	C17H31Cl	270
10, alpha, -Eremophilane	3242-05-5	NIST05.L	63044	35	C15H28	208
Naphthalene, decahydro-1,8a-dimethyl-7-(	15404-63-4	NIST05.L	63070	35	C15H28	208



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 12464340031951989111SVMI11LANL

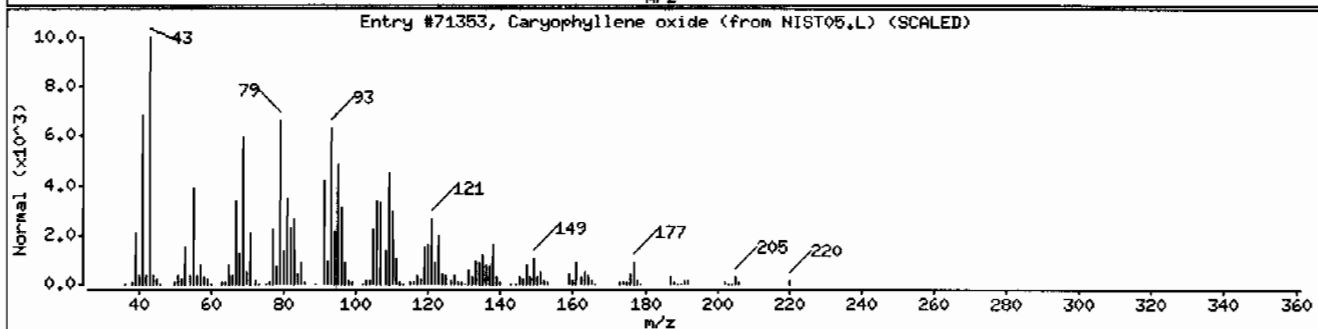
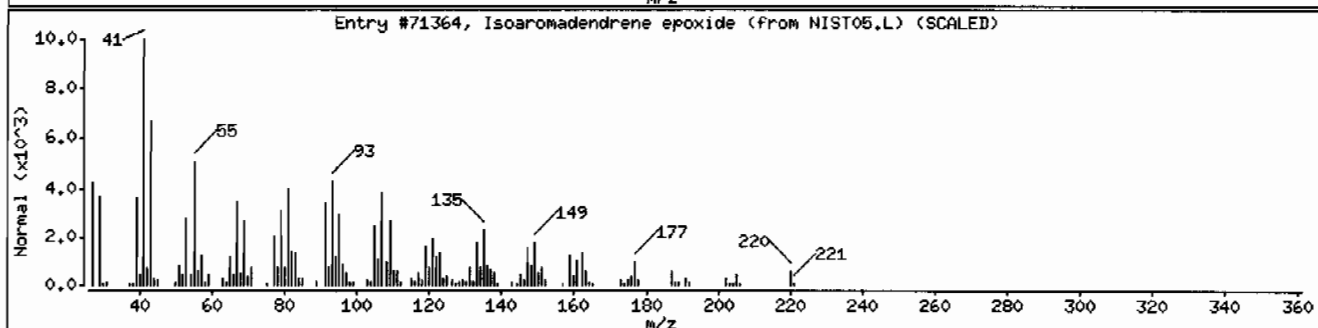
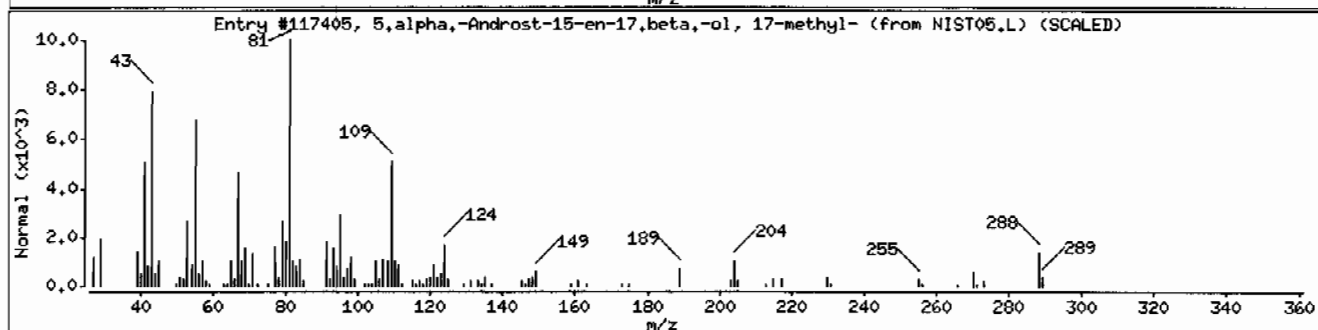
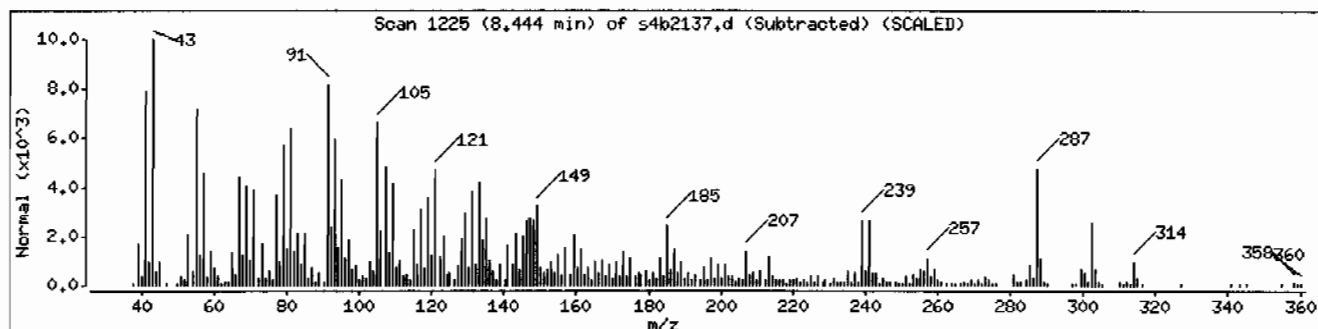
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
5.alpha.,-Androst-15-en-17.beta.-ol, 17-m	13864-65-8	NIST05.L	117405	44	C20H32O	288
Isoaromadendrene epoxide	1000159-36-6	NIST05.L	71364	38	C15H24O	220
Caryophyllene oxide	1139-30-6	NIST05.L	71353	30	C15H24O	220



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Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 1246434003195198911ISVM11ILANL

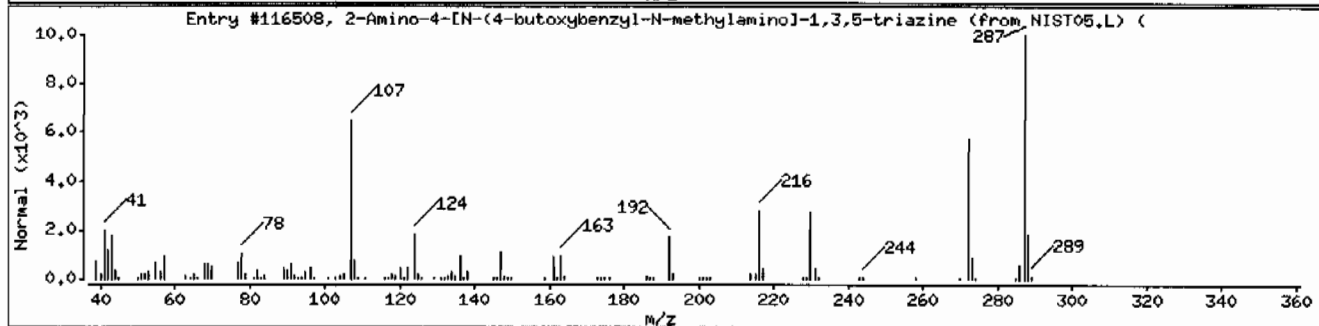
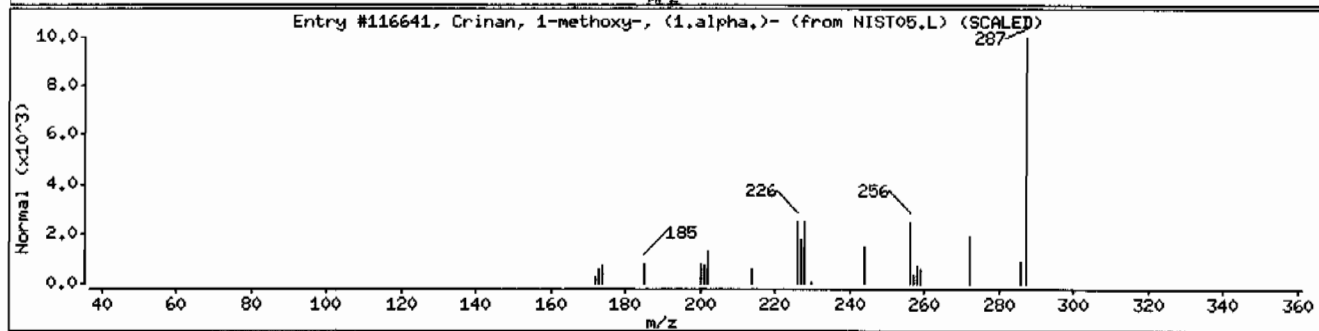
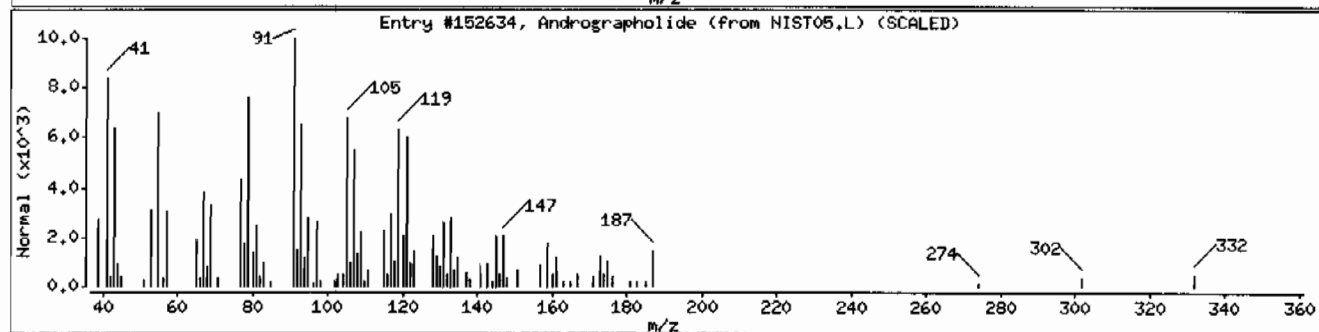
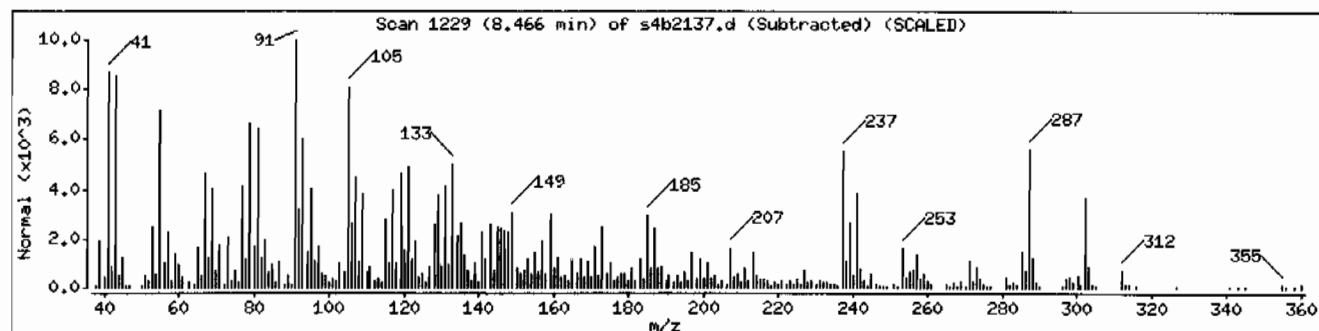
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Andrographolide	5508-58-7	NIST05.L	152634	25	C ₂₀ H ₃₀ O ₅	350
Crinan, 1-methoxy-, (1.alpha.)-	41928-92-1	NIST05.L	116641	12	C ₁₇ H ₂₁ N ₃ O	287
2-Amino-4-[N-(4-butoxybenzyl)-N-methylami	55384-22-0	NIST05.L	116508	11	C ₁₅ H ₂₁ N ₅ O	287



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Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 1246434003195198911SVH11ILANL

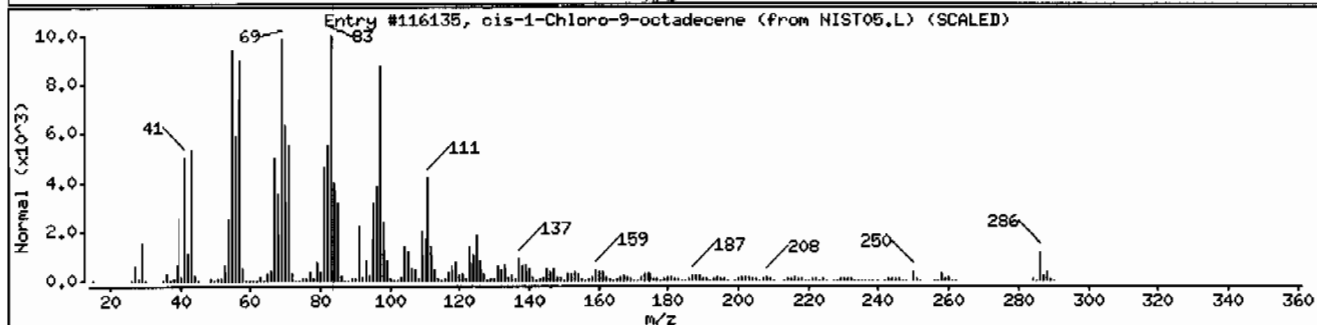
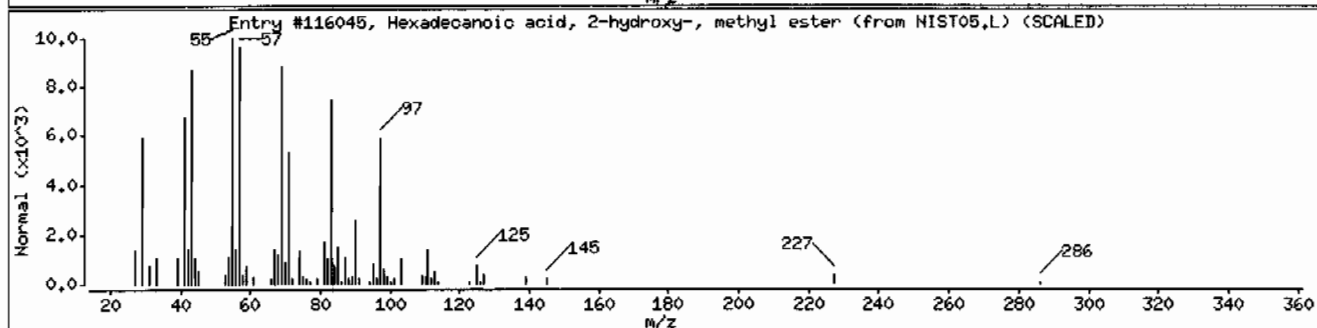
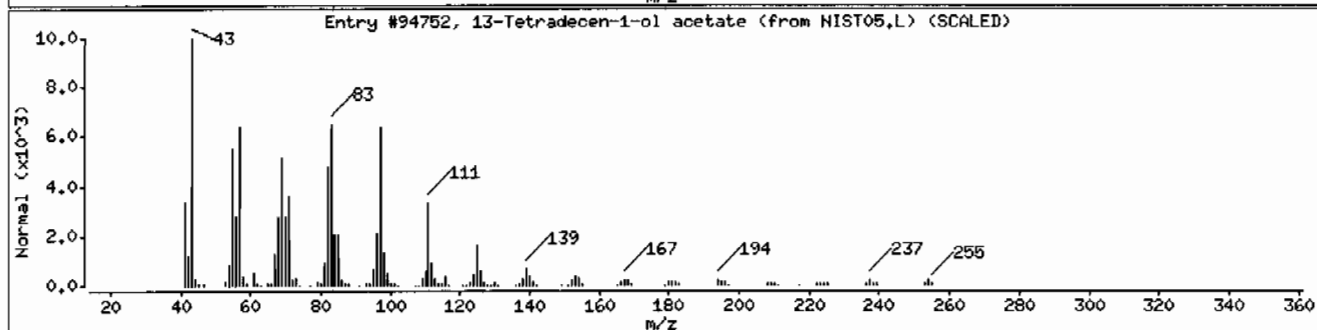
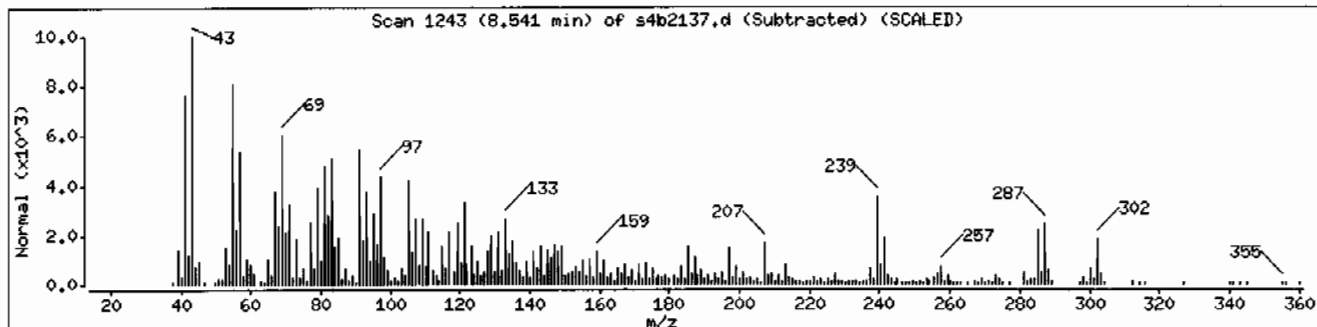
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
13-Tetradecen-1-ol acetate	56221-91-1	NIST05.L	94752	90	C16H30O2	254
Hexadecanoic acid, 2-hydroxy-, methyl es	16742-51-1	NIST05.L	116045	45	C17H34O3	286
cis-1-Chloro-9-octadecene	16507-61-2	NIST05.L	116135	44	C18H35Cl	286



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 1246434003195198911ISVH11ILANL

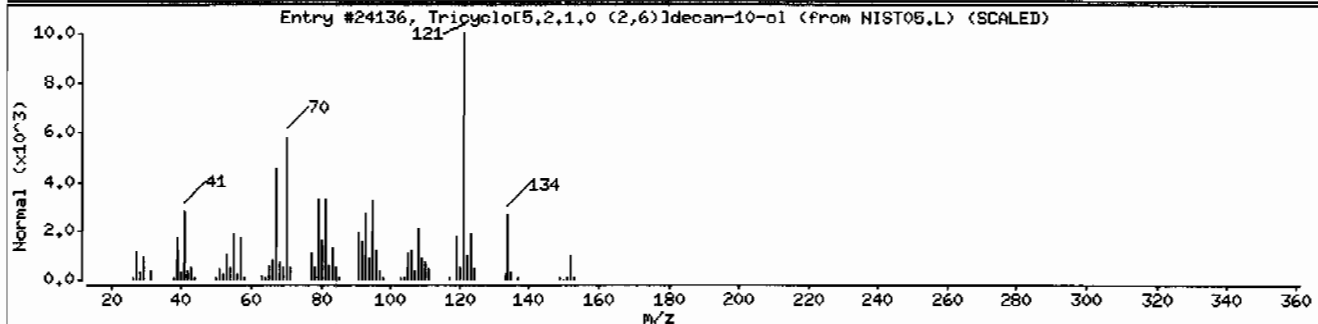
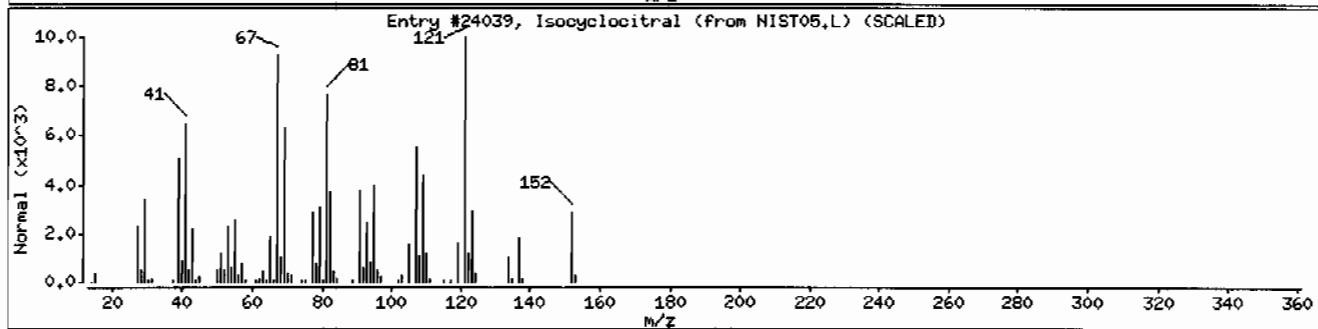
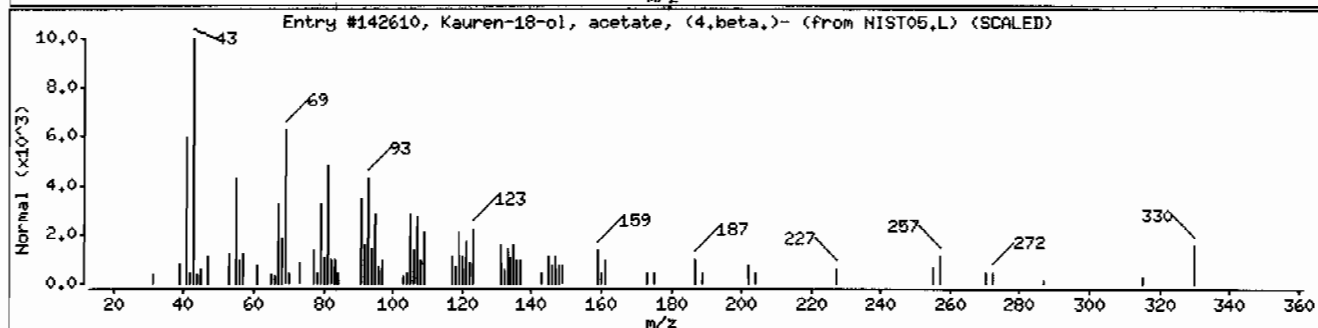
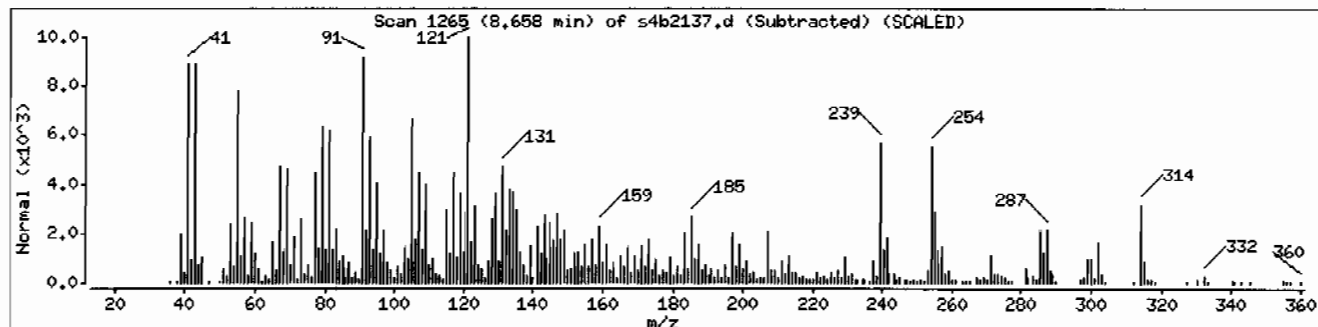
Volume Injected (UL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Kauren-18-ol, acetate, (4,beta.)-	72150-74-4	NIST05.L	142610	53	C22H34O2	330
Isocyclocitral	1335-66-6	NIST05.L	24039	50	C10H16O	152
Tricyclo[5,2,1,0 (2,6)]decan-10-ol	1000190-29-5	NIST05.L	24136	20	C10H16O	152



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 1246434003195198911ISVM11ILANL

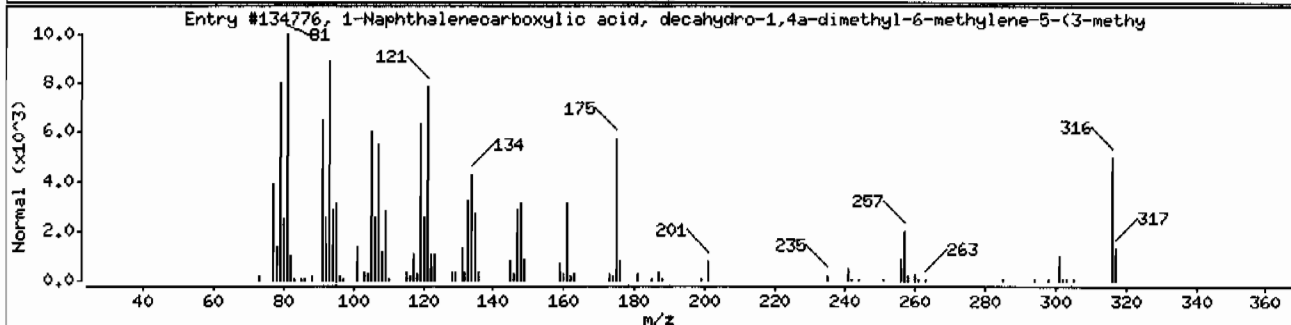
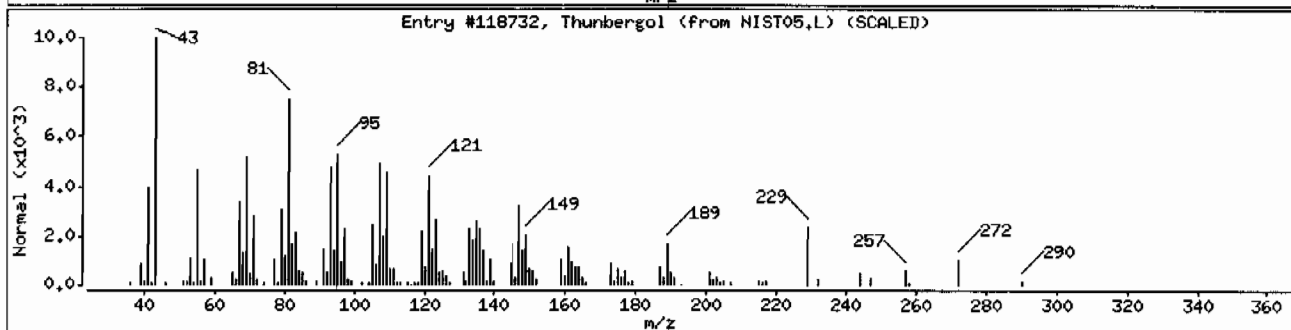
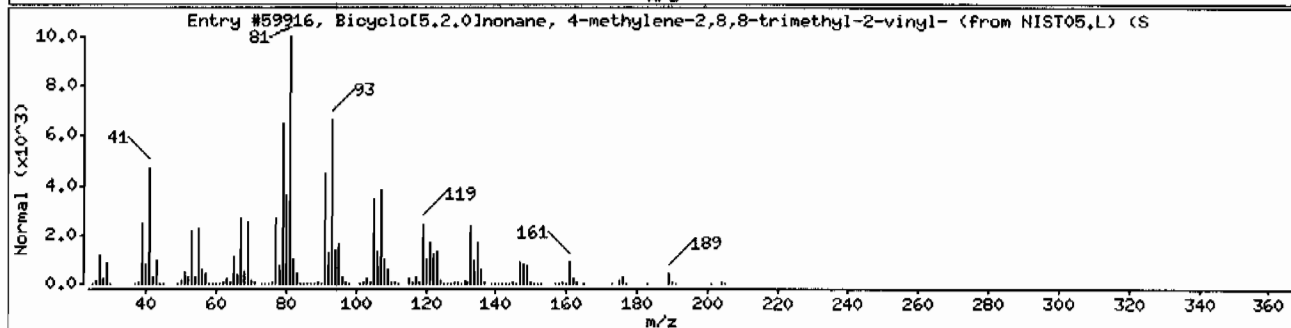
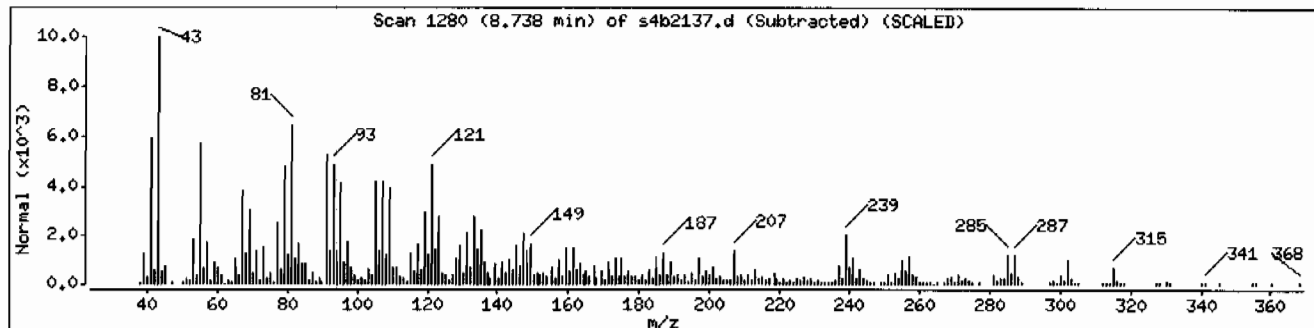
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Bicyclo[5.2.0]nonane, 4-methylene-2,8,8-	1000159-38-2	NIST05.L	59916	62	C15H24	204
Thunbergol	25269-17-4	NIST05.L	118732	50	C20H34O	290
1-Naphthalenecarboxylic acid, decahydro-	15798-13-7	NIST05.L	134776	45	C21H32O2	316



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 12464340031951989111SVH111LANL

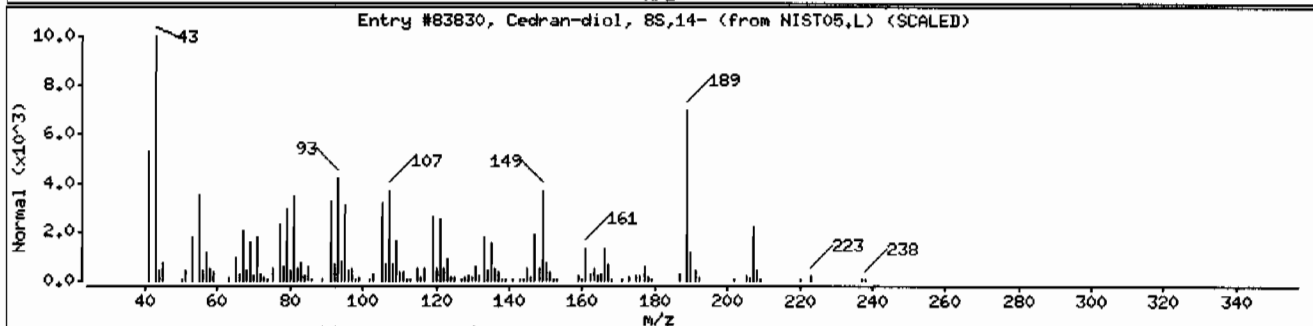
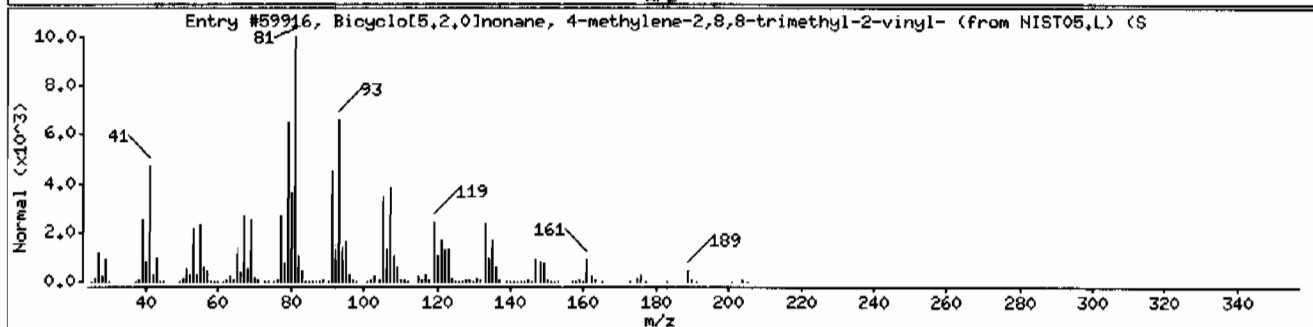
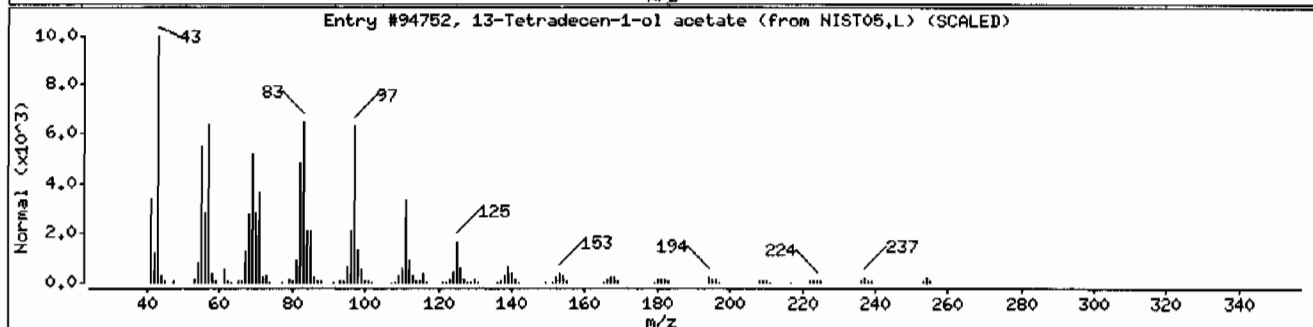
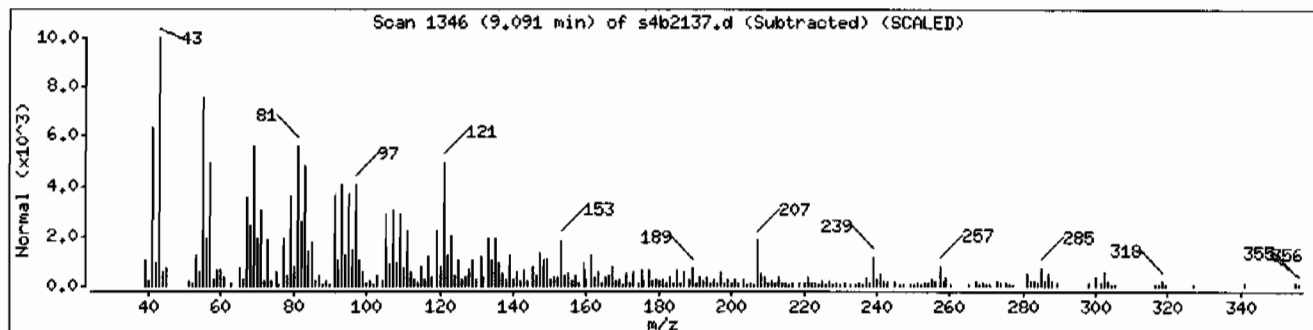
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
13-Tetradecen-1-ol acetate	56221-91-1	NIST05.L	94752	90	C16H30O2	264
Bicyclo[5.2.0]nonane, 4-methylene-2,8,8-	1000159-38-2	NIST05.L	59916	70	C15H24	204
Cedran-diol, 8S,14-	62600-05-9	NIST05.L	83830	70	C15H26O2	238



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: I2464340031951989111SVMI11LANL

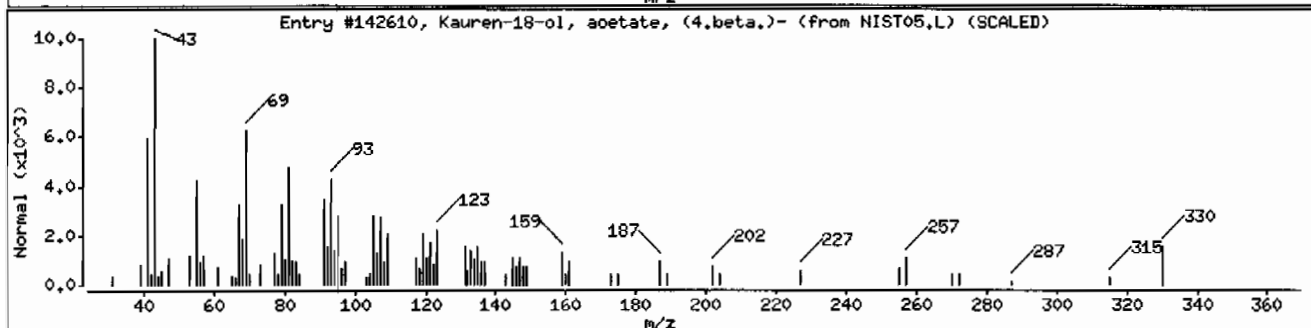
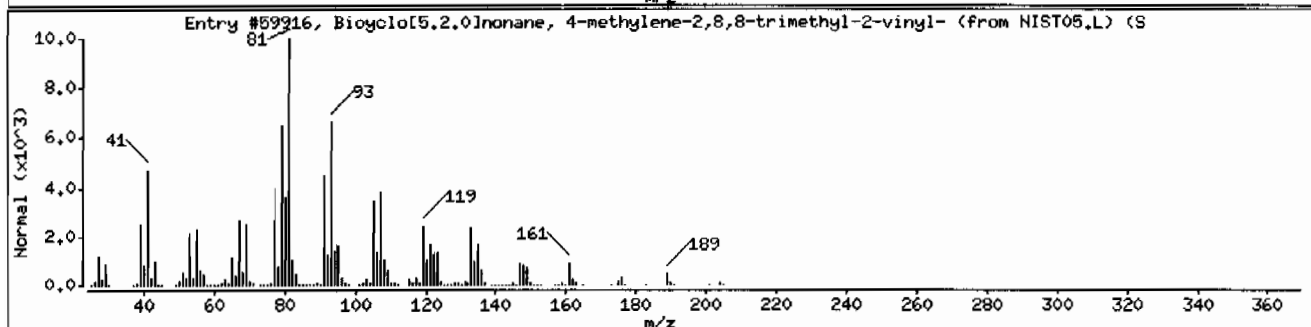
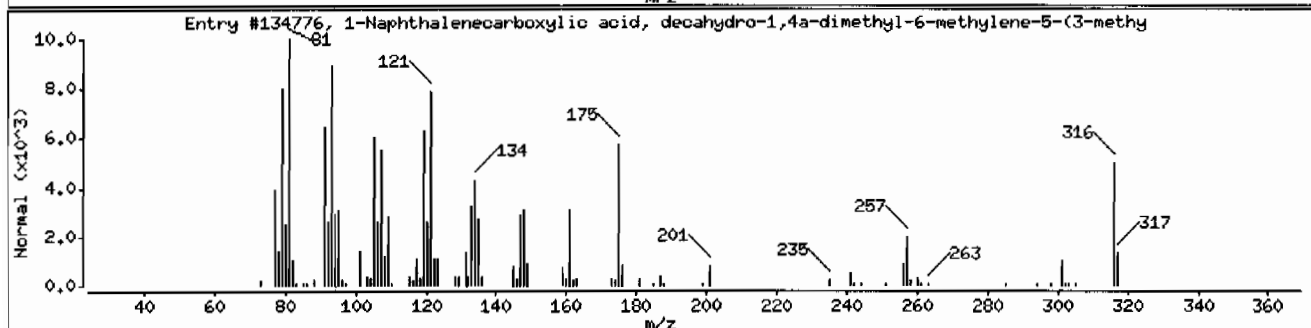
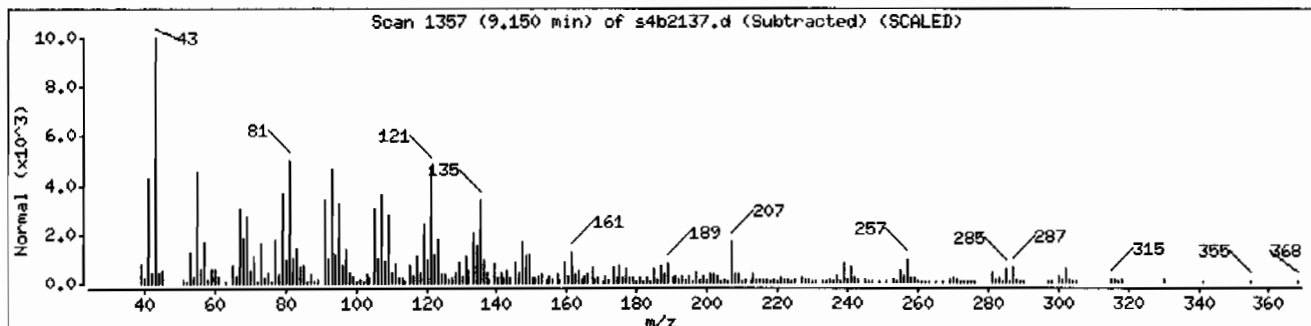
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Naphthalenecarboxylic acid, decahydro-	15798-13-7	NIST05.L	134776	64	C21H32O2	316
Bicyclo[5.2.0]nonane, 4-methylene-2,8,8-	1000159-38-2	NIST05.L	59916	64	C15H24	204
Kauren-18-ol, acetate, (4.beta.)-	72150-74-4	NIST05.L	142610	64	C22H34O2	330



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: HSD4.i

Sample Info: I246434003I951989I1ISVHI1ILANL

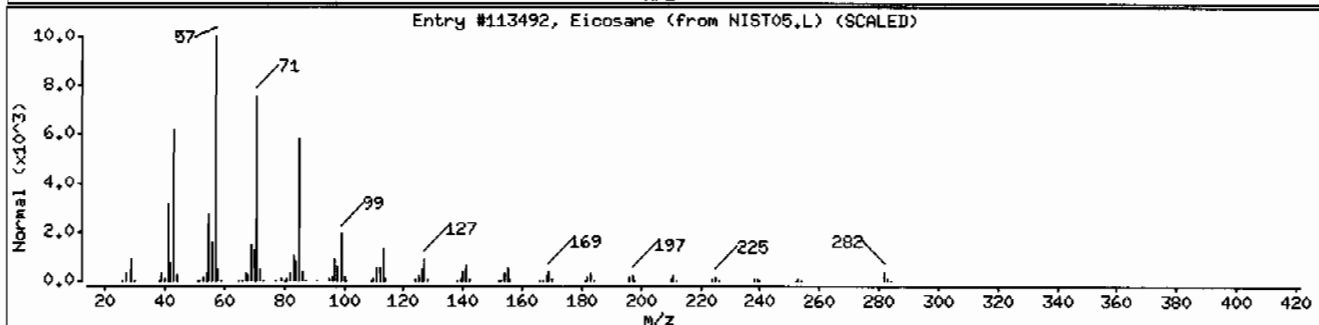
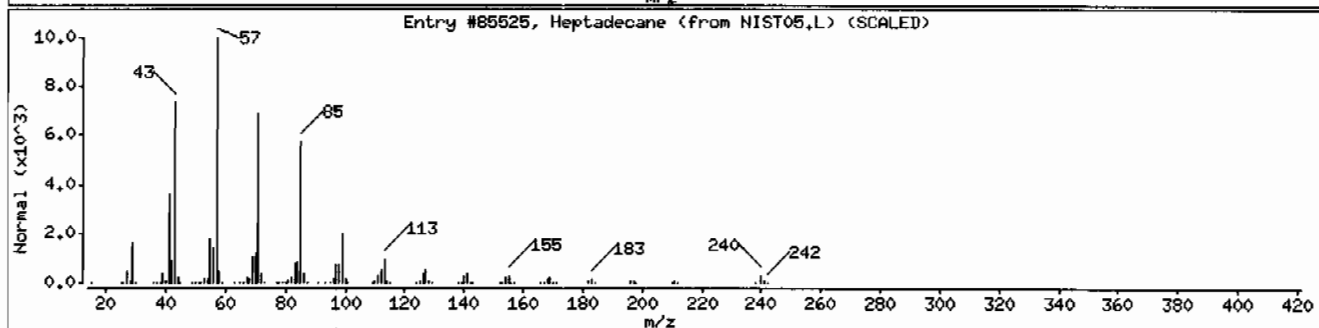
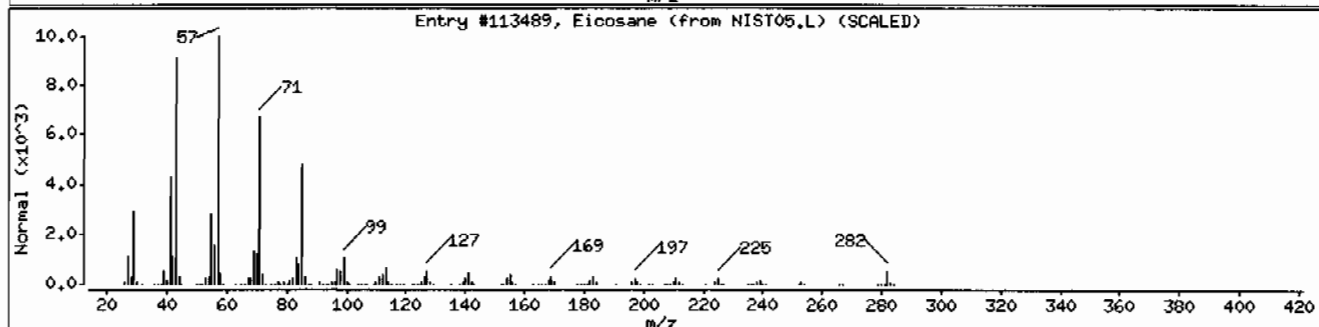
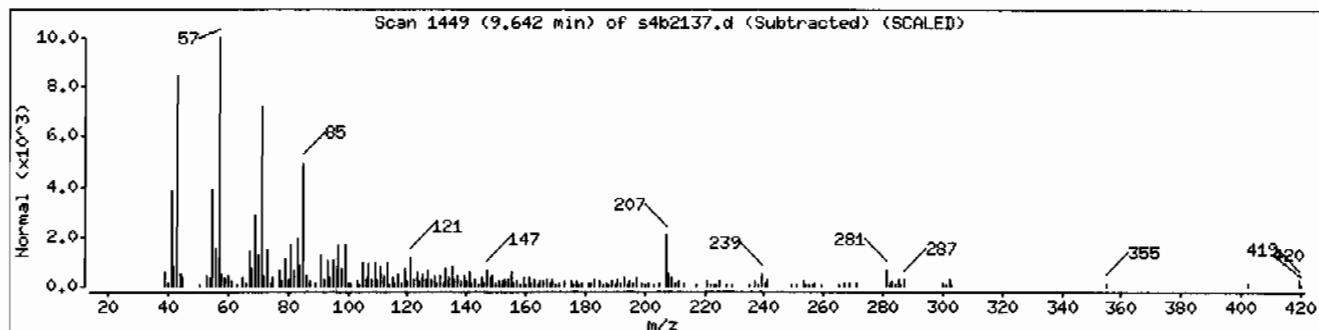
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Eicosane	112-95-8	NIST05.L	113489	95	C20H42	282
Heptadecane	629-78-7	NIST05.L	85525	95	C17H36	240
Eicosane	112-95-8	NIST05.L	113492	92	C20H42	282



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: I246434003I951989I1ISVH11ILANL

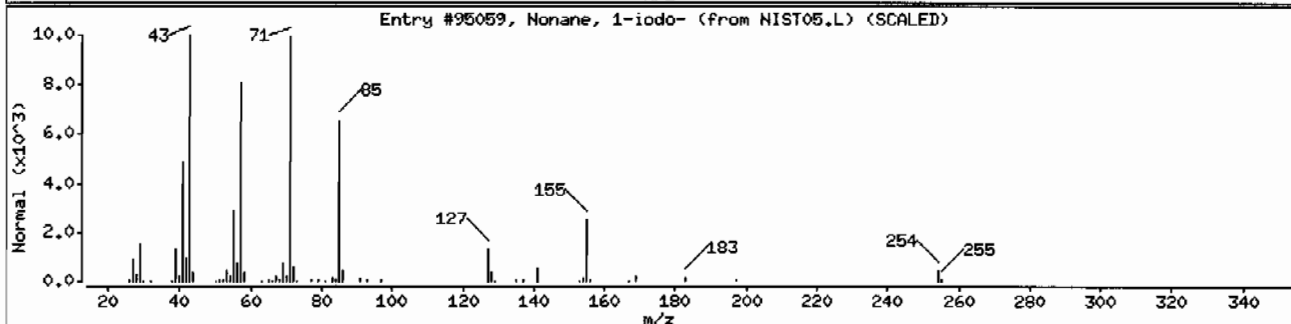
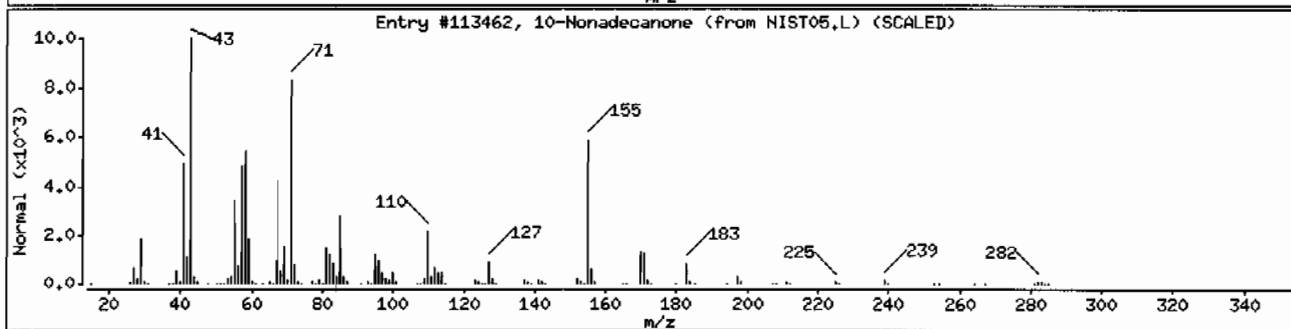
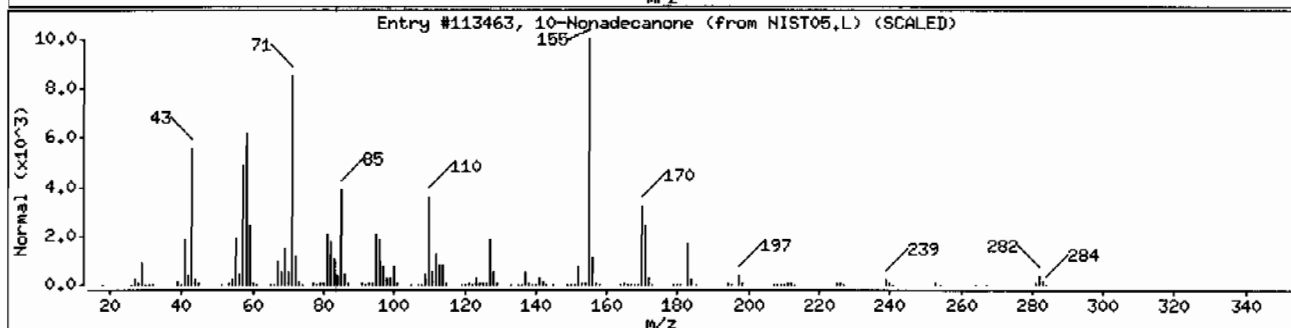
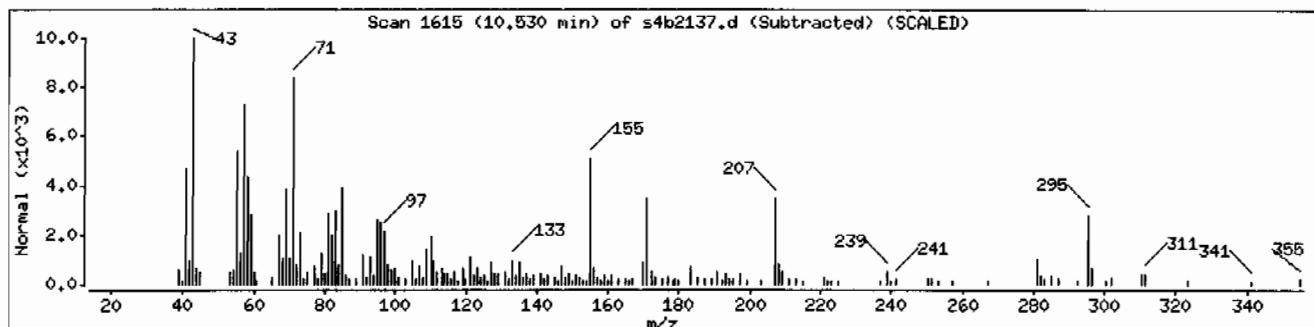
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
10-Nonadecanone	504-57-4	NIST05.L	113463	53	C19H38O	282
10-Nonadecanone	504-57-4	NIST05.L	113462	43	C19H38O	282
Nonane, 1-iodo-	4282-42-2	NIST05.L	95059	35	C9H19I	254



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: I246434003I951989I1ISVHI1ILANL

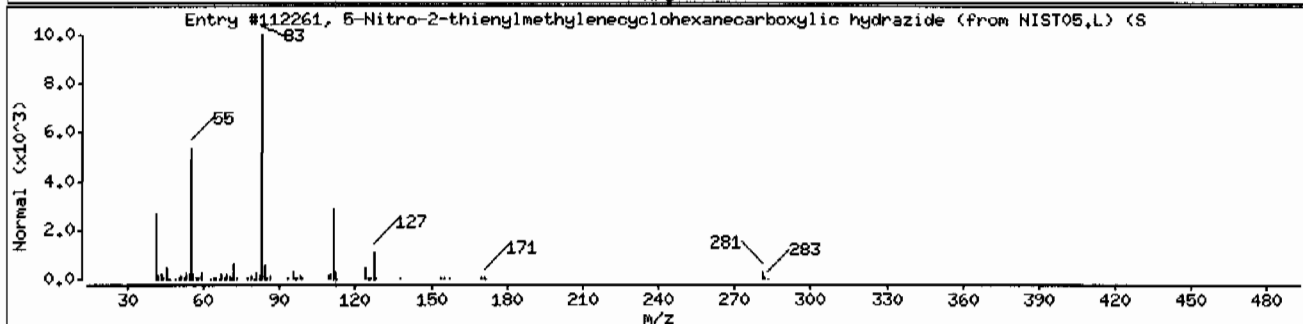
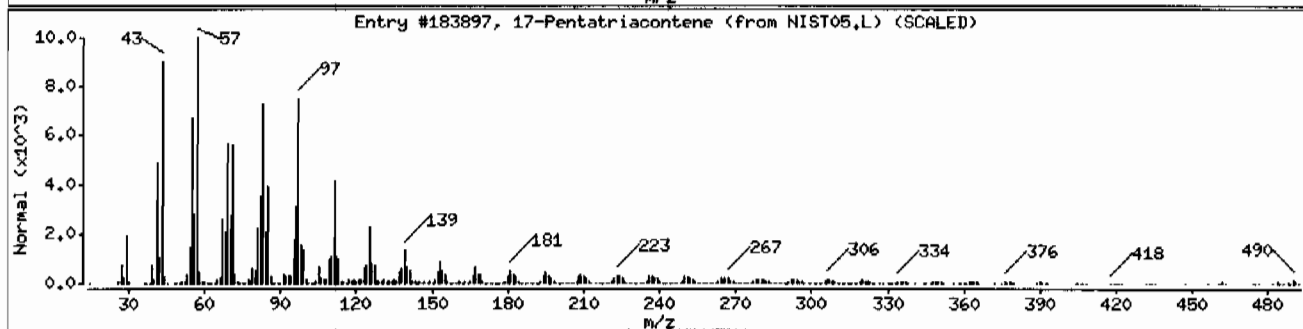
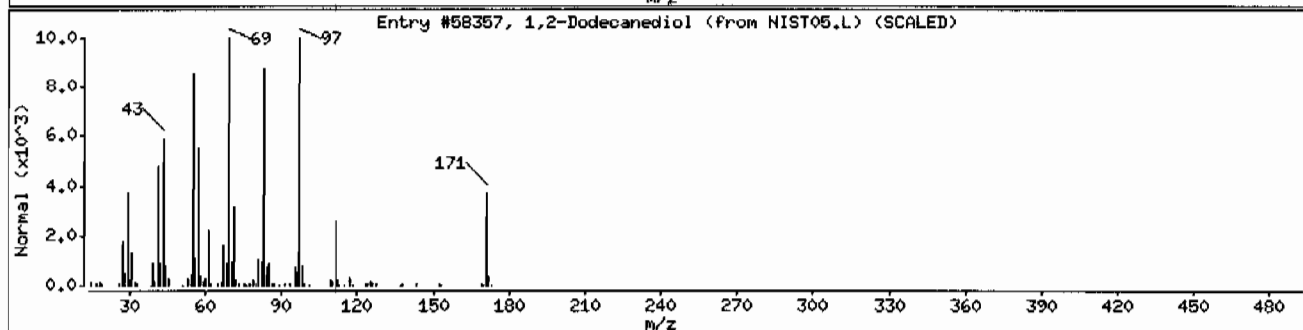
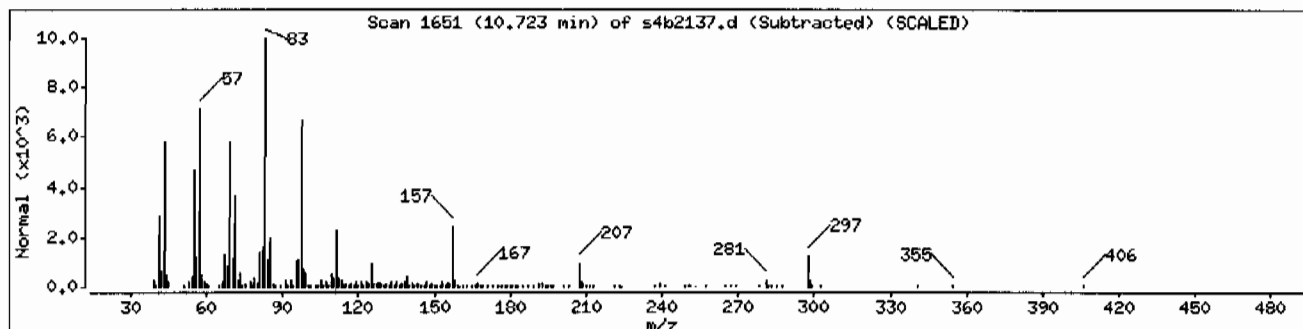
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,2-Dodecanediol	1119-87-5	NIST05.L	58357	38	C12H26O2	202
17-Pentatriacontene	6971-40-0	NIST05.L	183897	38	C35H70	491
5-Nitro-2-thienylmethylenecyclohexanecar	42826-29-9	NIST05.L	112261	38	C12H15N3O3S	281



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Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 12464340031951989111SVMI11LANL

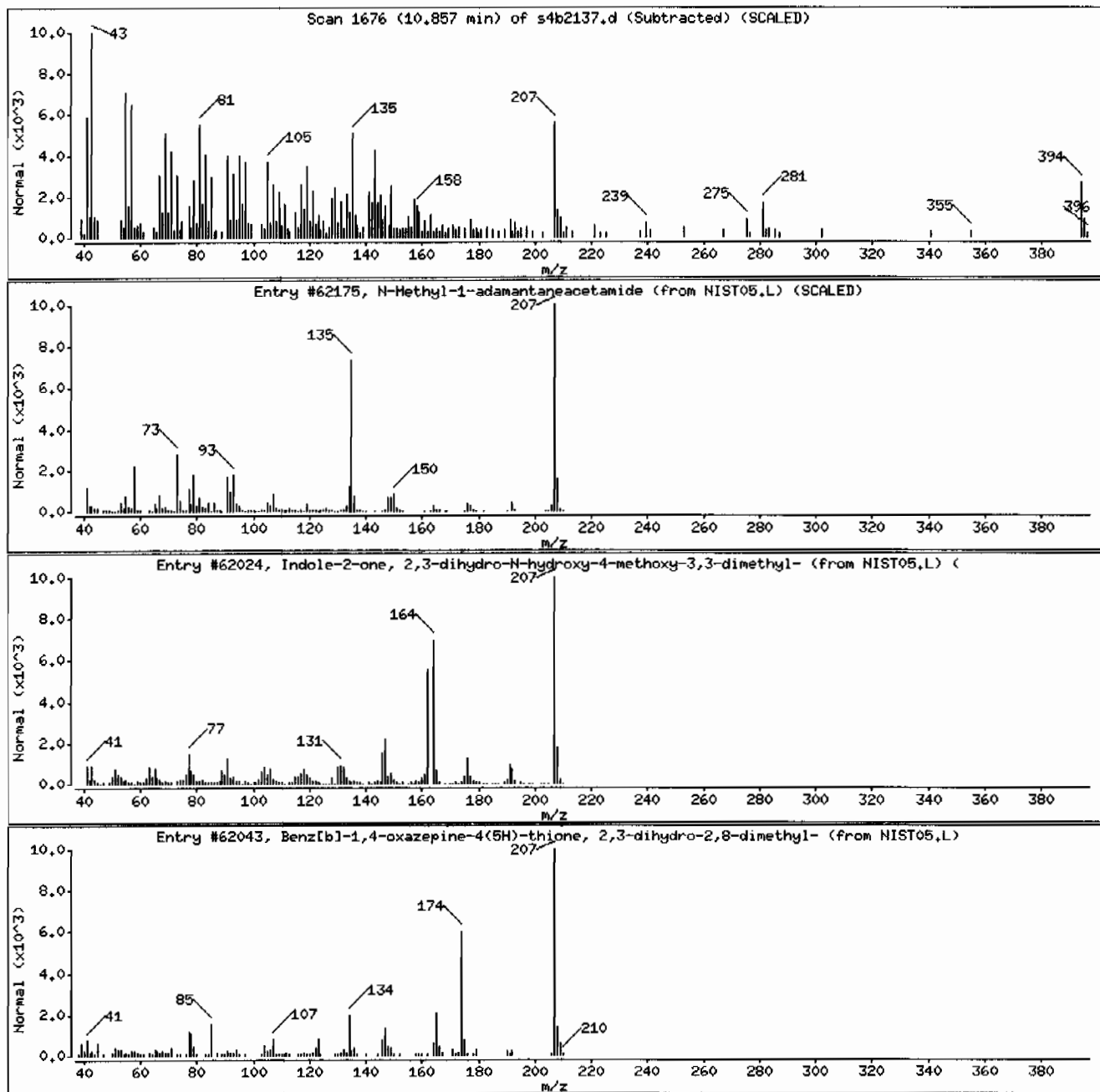
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
N-Methyl-1-adamantaneacetamide	31897-93-5	NIST05.L	62175	30	C ₁₃ H ₂₁ N	207
Indole-2-one, 2,3-dihydro-N-hydroxy-4-me	1000129-52-1	NIST05.L	62024	25	C ₁₁ H ₁₃ N	207
Benz[b]-1,4-oxazepine-4(5H)-thione, 2,3-	1000258-63-4	NIST05.L	62043	25	C ₁₁ H ₁₃ NOS	207



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: 1246434003195198911ISVH111LANL

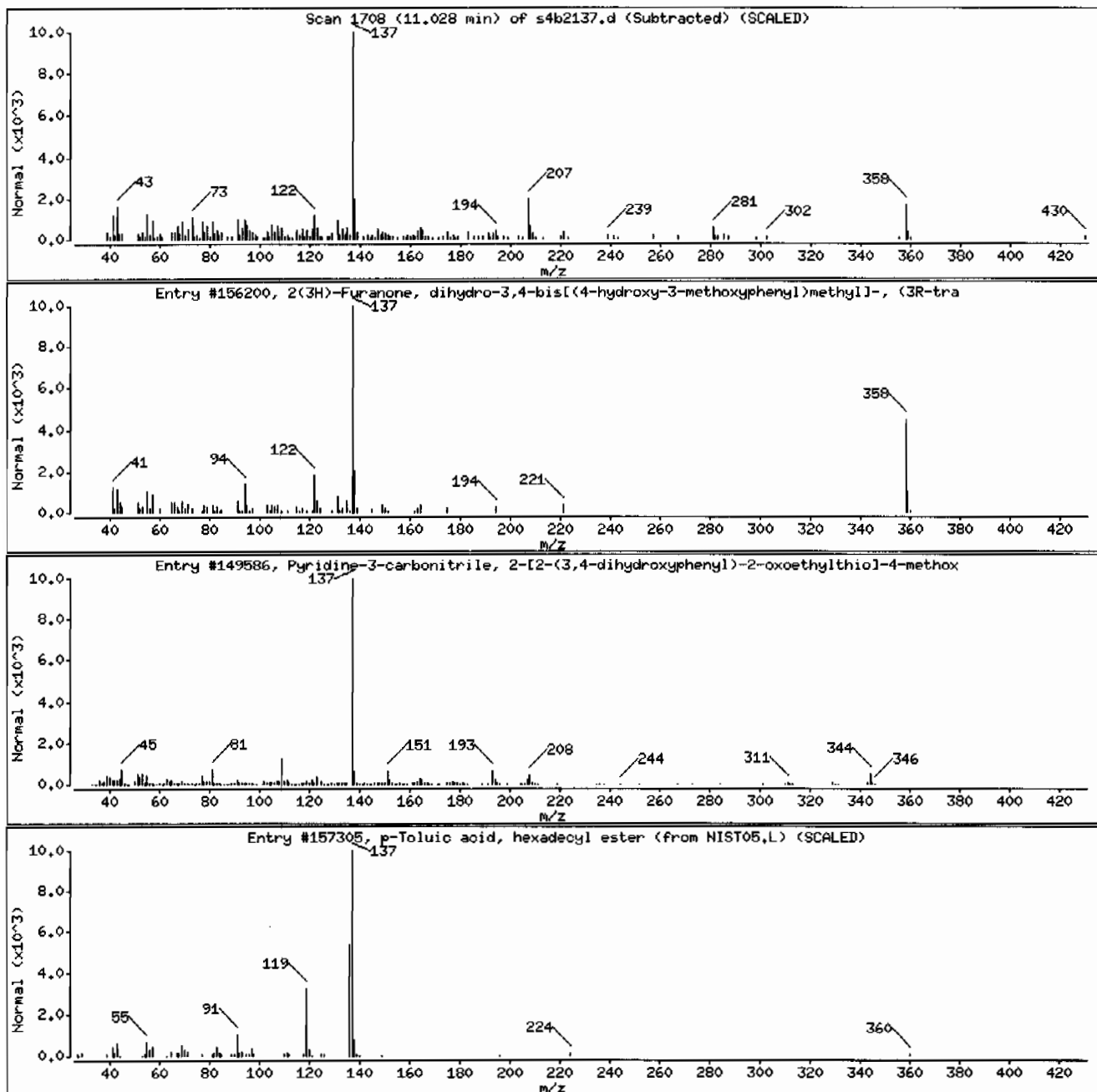
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2(3H)-Furanone, dihydro-3,4-bis[(4-hydro	580-72-3	NIST05.L	156200	93	C20H22O6	358
Pyridine-3-carbonitrile, 2-[2-(3,4-dihyd	185430-42-6	NIST05.L	149586	47	C17H16N2O4S	344
p-Toluic acid, hexadecyl ester	1000292-40-8	NIST05.L	157305	45	C24H40O2	360



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: HSD4.i

Sample Info: I2464340031951989111SVMI11LANL

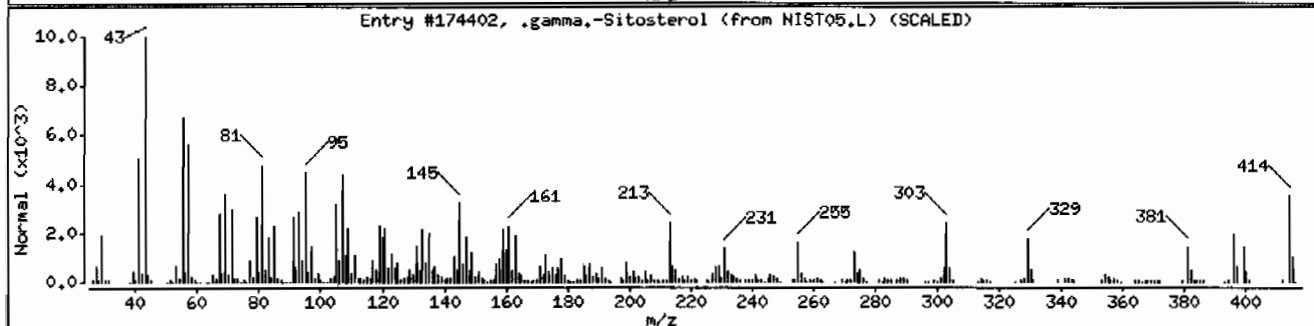
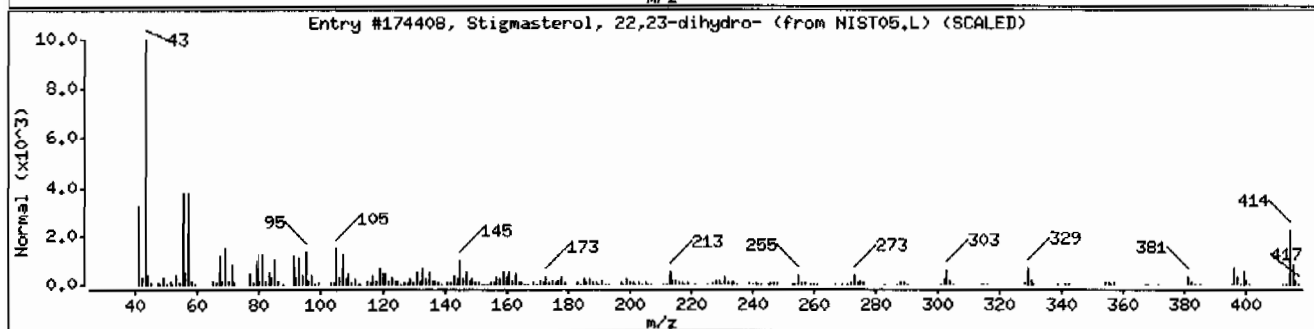
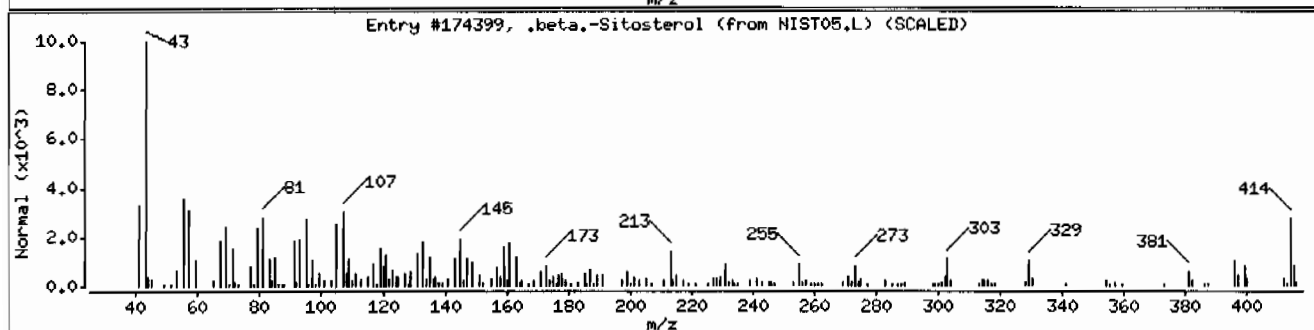
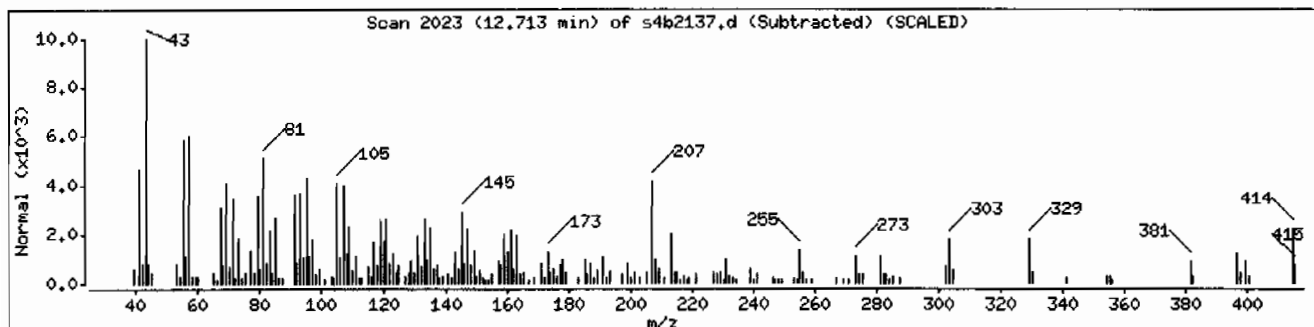
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
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Stigmasterol, 22,23-dihydro-	1000214-20-7	NIST05.L	174408	97	C ₂₉ H ₅₀ O	414
.gamma.-Sitosterol	83-47-6	NIST05.L	174402	90	C ₂₉ H ₅₀ O	414



Date : 21-FEB-2010 23:16

Client ID: RE15-10-8356

Instrument: MSD4.i

Sample Info: I246434003I95198911ISVH11ILANL

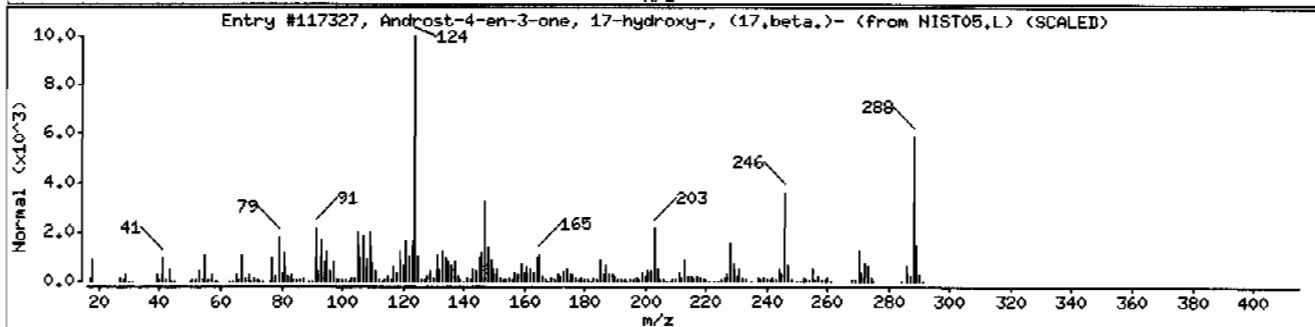
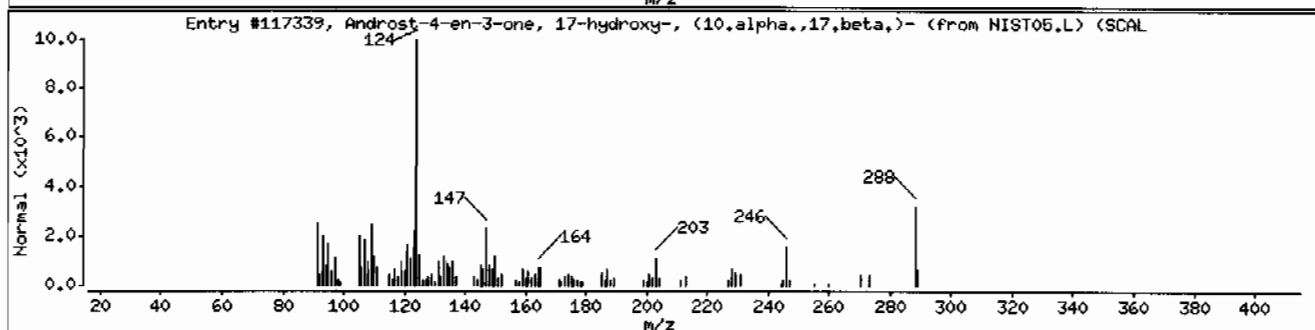
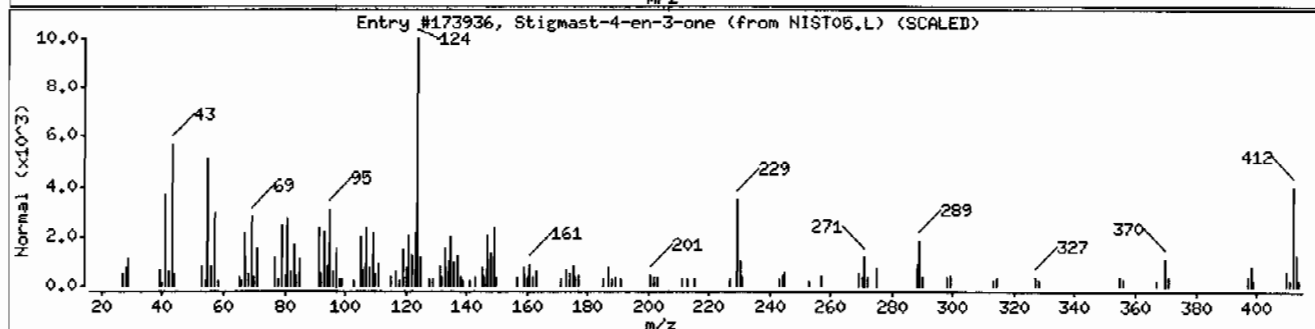
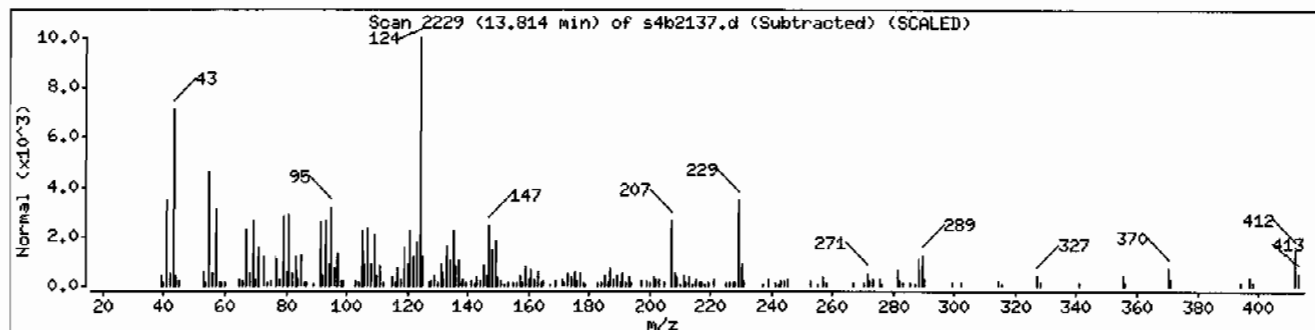
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Stigmast-4-en-3-one	1058-61-3	NIST05.L	173936	98	C29H48O	412
Androst-4-en-3-one, 17-hydroxy-, (10.alpha.	604-39-7	NIST05.L	117339	70	C19H28O2	288
Androst-4-en-3-one, 17-hydroxy-, (17.beta.	58-22-0	NIST05.L	117327	60	C19H28O2	288



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Data file : /chem/MSD4.i/s022010.b/s4b2020.d
 Lab Smp Id: 1202040335 Client Smp ID: RE15-10-8361MS
 Inj Date : 20-FEB-2010 17:43
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |1202040335|951989|1|SVM|1|MS_LANL
 Misc Info : |MSD8270_S|WBN100205-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
 Meth Date : 21-Feb-2010 08:46 jos00786 Quant Type: ISTD
 Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
 Als bottle: 9 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1623.sub
 Target Version: 3.50
 Processing Host: kilroy

Concentration Formula: Amt * DF * Uf *Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.17000	weight of sample
M	18.04950	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.930	3.935	(1.000)	164768	40.0000	
* 29 Naphthalene-d8	136	4.802	4.802	(1.000)	687299	40.0000	
* 46 Acenaphthene-d10	164	6.053	6.053	(1.000)	339314	40.0000	
* 67 Phenanthrene-d10	188	7.043	7.043	(1.000)	500757	40.0000	
* 91 Chrysene-d12	240	8.738	8.754	(1.000)	384101	40.0000	
* 98 Perylene-d12	264	10.273	10.300	(1.000)	241370	40.0000	
\$ 3 2-Fluorophenol	112	3.128	3.117	(0.796)	327243	69.6999	2820
\$ 5 Phenol-d5	99	3.646	3.646	(0.928)	405511	68.7503	2780
\$ 20 Nitrobenzene-d5	82	4.294	4.299	(0.894)	190077	36.0136	1460
\$ 39 2-Fluorobiphenyl	172	5.545	5.545	(0.916)	309370	35.3113	1430
\$ 60 2,4,6-Tribromophenol	329	6.594	6.588	(1.089)	84114	79.2646	3200
\$ 81 p-Terphenyl-d14	244	7.963	7.968	(0.911)	277545	46.2241	1870

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
6 Phenol	94	3.652	3.652	(0.929)	231578	38.6239	1560
8 2-Chlorophenol	128	3.796	3.796	(0.966)	192547	39.1733	1580
11 1,4-Dichlorobenzene	146	3.941	3.946	(1.003)	185933	37.8697	1530
17 N-Nitrosodipropylamine	70	4.171	4.176	(1.061)	146309	43.5534	1760 (Q)
28 1,2,4-Trichlorobenzene	180	4.748	4.754	(0.989)	140877	35.3830	1430
33 4-Chloro-3-methylphenol	107	5.155	5.144	(1.073)	152277	38.4471	1560
47 Acenaphthene	154	6.075	6.080	(1.004)	291995	33.7711	1360
50 2,4-Dinitrotoluene	165	6.160	6.166	(1.018)	103875	37.1583	1500
52 4-Nitrophenol	139	6.107	6.091	(1.009)	58560	36.6301	1480
65 Pentachlorophenol	266	6.909	6.909	(0.981)	51857	44.7545	1810
79 Pyrene	202	7.915	7.920	(0.906)	441832	42.2058	1710
2 Pyridine	79	2.502	2.475	(0.637)	155454	32.8216	1330
4 Aniline	66	3.716	3.721	(0.946)	81519	35.0603	1420
7 bis(2-Chloroethyl) ether	63	3.732	3.732	(0.950)	137184	38.8371	1570
9 1,3-Dichlorobenzene	146	3.898	3.898	(0.992)	179288	36.5981	1480
12 Benzyl alcohol	108	3.999	3.999	(1.018)	68483	25.1469	1020
13 1,2-Dichlorobenzene	146	4.048	4.048	(1.030)	168075	37.5892	1520
14 bis(2-Chloroisopropyl) ether	45	4.074	4.074	(1.037)	275476	41.6866	1690
15 o-Cresol	107	4.053	4.048	(1.031)	153525	42.5375	1720
18 m,p-Cresols	107	4.149	4.149	(1.056)	233707	47.5730	1920
19 Hexachloroethane	117	4.272	4.278	(1.087)	70681	38.3406	1550
21 Nitrobenzene	77	4.310	4.315	(0.898)	201598	39.4952	1600
22 Isophorone	82	4.459	4.470	(0.929)	384237	36.0983	1460
23 2-Nitrophenol	139	4.524	4.524	(0.942)	91467	33.0590	1340
24 2,4-Dimethylphenol	122	4.518	4.518	(0.941)	192079	42.6977	1730
25 bis(2-Chloroethoxy) methane	93	4.582	4.582	(0.954)	225854	35.4492	1430
26 2,4-Dichlorophenol	162	4.689	4.684	(0.977)	136307	34.8950	1410
27 Benzoic acid	105	4.599	4.577	(0.958)	280989	78.6385	3180
30 Naphthalene	128	4.818	4.818	(1.003)	549897	34.9353	1410
31 4-Chloroaniline	127	4.834	4.834	(1.007)	233800	33.0878	1340
32 Hexachlorobutadiene	225	4.877	4.877	(1.016)	71175	35.9746	1460
34 2-Methylnaphthalene	142	5.299	5.299	(1.104)	341123	36.9741	1500
36 Hexachlorocyclopentadiene	237	5.401	5.401	(0.892)	48111	30.2720	1220
37 2,4,6-Trichlorophenol	196	5.486	5.486	(0.906)	81555	37.1165	1500
38 2,4,5-Trichlorophenol	196	5.524	5.513	(0.913)	113669	44.7327	1810
40 2-Chloronaphthalene	162	5.652	5.652	(0.934)	304535	37.3846	1510
42 o-Nitroaniline	65	5.711	5.711	(0.943)	96843	42.9412	1740
41 m-Nitroaniline	138	6.005	6.011	(0.992)	79046	37.3814	1510
43 Dimethylphthalate	163	5.818	5.823	(0.961)	366774	40.8426	1650
44 2,6-Dinitrotoluene	165	5.877	5.877	(0.971)	81714	38.1520	1540
45 Acenaphthylene	152	5.957	5.962	(0.984)	488665	39.4202	1590
48 2,4-Dinitrophenol	184	6.075	6.075	(1.004)	26937	33.1301	1340 (Q)
49 Dibenzofuran	168	6.192	6.198	(1.023)	412740	38.6071	1560
51 Diethylphthalate	149	6.305	6.305	(1.042)	345502	40.8747	1650
53 Fluorene	166	6.428	6.428	(1.062)	306320	32.5281	1320
54 4-Chlorophenylphenylether	204	6.406	6.406	(1.058)	149340	37.0870	1500
55 2-Methyl-4,6-dinitrophenol	198	6.444	6.444	(0.915)	46660	34.3953	1390

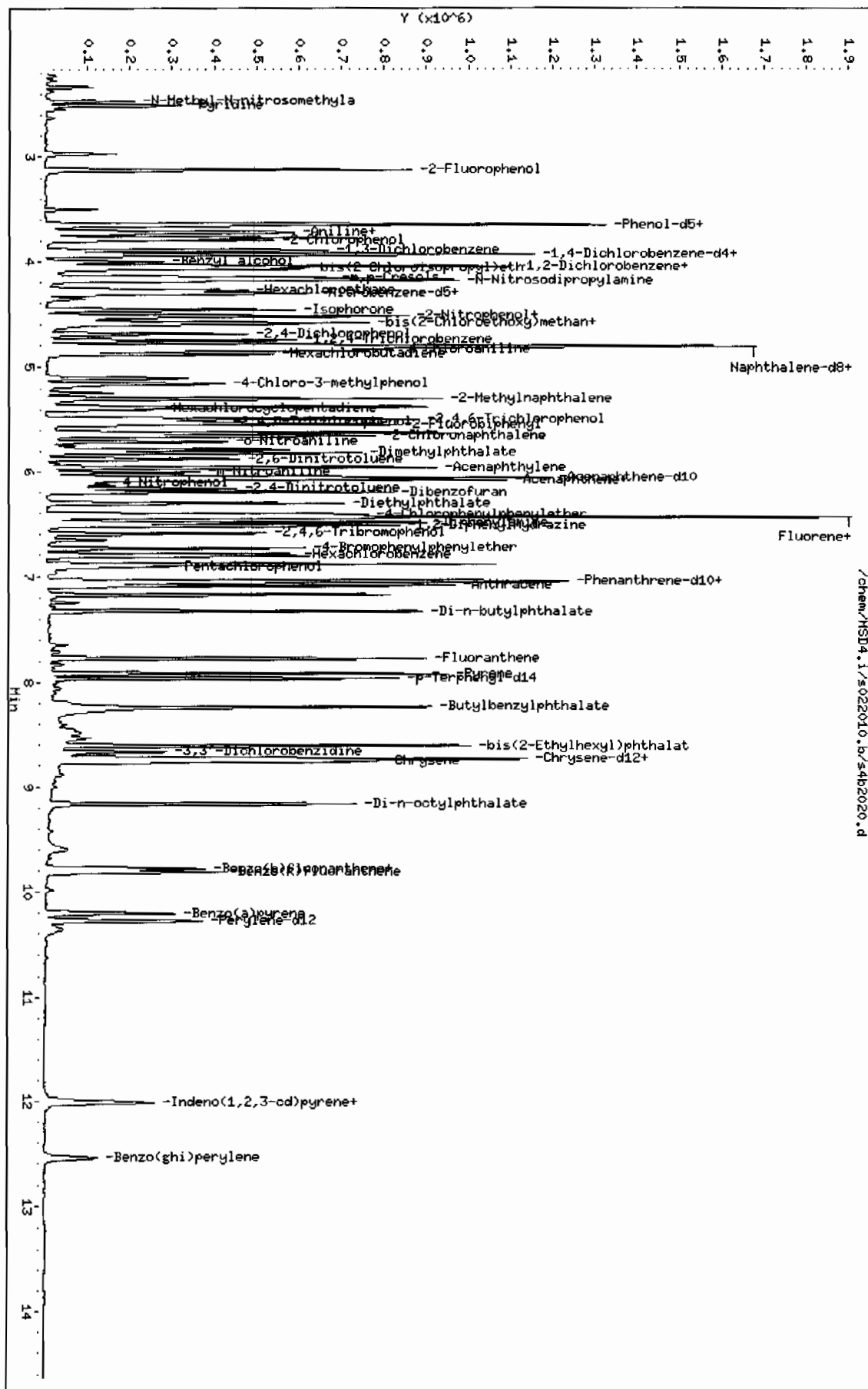
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng/ul)	(ug/Kg)
56 p-Nitroaniline	138	6.433	6.433	(1.063)	72971	44.4989	1800
133 Diphenylamine	169	6.487	6.487	(0.921)	295353	44.5699	1800
58 1,2-Diphenylhydrazine	77	6.513	6.513	(0.925)	408848	47.3164	1910
61 4-Bromophenylphenylether	248	6.733	6.733	(0.956)	83886	38.2971	1550
63 Hexachlorobenzene	284	6.791	6.791	(0.964)	89965	38.0647	1540
68 Phenanthrene	178	7.059	7.059	(1.002)	465351	37.6645	1520
69 Anthracene	178	7.091	7.091	(1.007)	457431	36.4502	1470
72 Di-n-butylphthalate	149	7.332	7.332	(1.041)	566624	41.8217	1690
76 Fluoranthene	202	7.776	7.776	(1.104)	427195	36.9221	1490
85 Butylbenzylphthalate	149	8.230	8.241	(0.942)	244898	55.1241	2230
89 Benzo(a)anthracene	228	8.728	8.738	(0.999)	340111	37.7893	1530
90 3,3'-Dichlorobenzidine	252	8.664	8.658	(0.991)	69359	26.8811	1090
92 Chrysene	228	8.760	8.776	(1.002)	338869	37.4237	1510
93 bis(2-Ethylhexyl)phthalate	149	8.605	8.615	(0.985)	338211	53.1127	2150
94 Di-n-octylphthalate	149	9.166	9.182	(0.892)	504853	69.9359	2830
95 Benzo(b)fluoranthene	252	9.781	9.803	(0.952)	247083	43.3932	1760 (H)
96 Benzo(k)fluoranthene	252	9.813	9.835	(0.955)	249746	43.3484	1750
97 Benzo(a)pyrene	252	10.204	10.231	(0.993)	203476	41.8114	1690
99 Indeno(1,2,3-cd)pyrene	276	12.006	12.055	(1.169)	155902	35.6875	1440
100 Dibenzo(a,h)anthracene	278	12.017	12.055	(1.170)	131116	36.4633	1470
101 Benzo(ghi)perylene	276	12.547	12.589	(1.221)	120330	33.4168	1350
1 N-Methyl-N-nitrosomethylamine	74	2.464	2.443	(0.627)	111001	32.8292	1330

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: /chem/MSD4.1/s022010.b/s4b2020.d
 Date: 20-FEB-2010 17:43
 Client ID: REL5-10-6361MS
 Sample Info: 112020403361951989111SVH11HS_LANL
 Volume Injected (uL): 0.5
 Column phase: J&W DB-5MS

Instrument: MSD4.1
 Operator: JHB3
 Column diameter: 0.20



Data File: /chem/MSD4.i/s022010.b/s4b2021.d
Report Date: 21-Feb-2010 09:34

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Data file : /chem/MSD4.i/s022010.b/s4b2021.d
Lab Smp Id: 1202040336 Client Smp ID: RE15-10-8361MSD
Inj Date : 20-FEB-2010 18:06
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |1202040336|951989|1|SVM|1|MSD_LANL
Misc Info : |MSD8270_S|WBN100205-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD4.i/s022010.b/MSD4-M8270C-AQA-021710.m
Meth Date : 21-Feb-2010 08:46 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 10 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1623.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.03000	weight of sample
M	18.04950	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4		152	3.930	3.935	(1.000)	168509	40.0000	
* 29 Naphthalene-d8		136	4.802	4.802	(1.000)	699635	40.0000	
* 46 Acenaphthene-d10		164	6.053	6.053	(1.000)	363072	40.0000	
* 67 Phenanthrene-d10		188	7.043	7.043	(1.000)	537531	40.0000	
* 91 Chrysene-d12		240	8.738	8.754	(1.000)	432073	40.0000	
* 98 Perylene-d12		264	10.279	10.300	(1.000)	297355	40.0000	
\$ 3 2-Fluorophenol		112	3.122	3.117	(0.794)	341530	71.1280	2890
\$ 5 Phenol-d5		99	3.647	3.646	(0.928)	435554	72.2044	2930
\$ 20 Nitrobenzene-d5		82	4.294	4.299	(0.894)	202525	37.6955	1530
\$ 39 2-Fluorobiphenyl		172	5.545	5.545	(0.916)	342990	36.5869	1490
\$ 60 2,4,6-Tribromophenol		329	6.588	6.588	(1.088)	94836	83.5205	3390
\$ 81 p-Terphenyl-d14		244	7.963	7.968	(0.911)	320937	47.5164	1930

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
6 Phenol		94	3.652	3.652	(0.929)	239146	39.0006	1580
8 2-Chlorophenol		128	3.796	3.796	(0.966)	192894	38.3727	1560
11 1,4-Dichlorobenzene		146	3.941	3.946	(1.003)	182879	36.4207	1480
17 N-Nitrosodipropylamine		70	4.171	4.176	(1.061)	149065	43.3887	1760 (Q)
28 1,2,4-Trichlorobenzene		180	4.748	4.754	(0.989)	143723	35.4614	1440
33 4-Chloro-3-methylphenol		107	5.155	5.144	(1.073)	162859	40.3939	1640
47 Acenaphthene		154	6.075	6.080	(1.004)	315258	34.0757	1380
50 2,4-Dinitrotoluene		165	6.160	6.166	(1.018)	114695	38.3441	1560
52 4-Nitrophenol		139	6.102	6.091	(1.008)	70710	40.4900	1640
65 Pentachlorophenol		266	6.909	6.909	(0.981)	57991	46.6244	1890
79 Pyrene		202	7.915	7.920	(0.906)	484837	41.1717	1670
2 Pyridine		79	2.502	2.475	(0.637)	152599	31.5036	1280
4 Aniline		66	3.716	3.721	(0.946)	83054	34.9275	1420
7 bis(2-Chloroethyl) ether		63	3.727	3.732	(0.948)	139250	38.5468	1570
9 1,3-Dichlorobenzene		146	3.898	3.898	(0.992)	178594	35.6471	1450
12 Benzyl alcohol		108	4.000	3.999	(1.018)	76231	27.3705	1110
13 1,2-Dichlorobenzene		146	4.042	4.048	(1.029)	169257	37.0132	1500
14 bis(2-Chloroisopropyl) ether		45	4.069	4.074	(1.035)	281164	41.6027	1690
15 o-Cresol		107	4.053	4.048	(1.031)	165724	44.8981	1820
18 m,p-Cresols		107	4.149	4.149	(1.056)	242225	48.2123	1960
19 Hexachloroethane		117	4.272	4.278	(1.087)	71358	37.8485	1540
21 Nitrobenzene		77	4.310	4.315	(0.898)	204916	39.4373	1600
22 Isophorone		82	4.460	4.470	(0.929)	397714	36.7056	1490
23 2-Nitrophenol		139	4.524	4.524	(0.942)	96413	34.2322	1390
24 2,4-Dimethylphenol		122	4.518	4.518	(0.941)	201152	43.9262	1780
25 bis(2-Chloroethoxy) methane		93	4.583	4.582	(0.954)	234211	36.1127	1470
26 2,4-Dichlorophenol		162	4.684	4.684	(0.975)	144100	36.2396	1470
27 Benzoic acid		105	4.599	4.577	(0.958)	302183	82.3444	3350
30 Naphthalene		128	4.818	4.818	(1.003)	558724	34.8702	1420
31 4-Chloroaniline		127	4.834	4.834	(1.007)	245046	34.0679	1380
32 Hexachlorobutadiene		225	4.877	4.877	(1.016)	71716	35.6089	1450
34 2-Methylnaphthalene		142	5.299	5.299	(1.104)	354959	37.7954	1540
36 Hexachlorocyclopentadiene		237	5.396	5.401	(0.891)	50141	29.4849	1200
37 2,4,6-Trichlorophenol		196	5.486	5.486	(0.906)	92185	39.2090	1590
38 2,4,5-Trichlorophenol		196	5.519	5.513	(0.912)	120538	44.3319	1800
40 2-Chloronaphthalene		162	5.652	5.652	(0.934)	325430	37.3355	1520
42 o-Nitroaniline		65	5.711	5.711	(0.943)	104626	43.3565	1760
41 m-Nitroaniline		138	6.005	6.011	(0.992)	89121	39.2269	1590
43 Dimethylphthalate		163	5.818	5.823	(0.961)	392013	40.7966	1660
44 2,6-Dinitrotoluene		165	5.877	5.877	(0.971)	90812	39.6253	1610
45 Acenaphthylene		152	5.957	5.962	(0.984)	520680	39.2543	1600
48 2,4-Dinitrophenol		184	6.075	6.075	(1.004)	30858	35.4691	1440 (Q)
49 Dibenzofuran		168	6.192	6.198	(1.023)	441305	38.5778	1570
51 Diethylphthalate		149	6.305	6.305	(1.042)	383408	42.3911	1720
53 Fluorene		166	6.428	6.428	(1.062)	333106	33.0579	1340
54 4-Chlorophenylphenylether		204	6.406	6.406	(1.058)	162716	37.7646	1530
55 2-Methyl-4,6-dinitrophenol		198	6.444	6.444	(0.915)	51559	35.4065	1440

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
56 p-Nitroaniline		138	6.433	6.433	(1.063)	83681	47.6908	1940
133 Diphenylamine		169	6.487	6.487	(0.921)	326122	45.8463	1860
58 1,2-Diphenylhydrazine		77	6.513	6.513	(0.925)	450151	48.5324	1970
61 4-Bromophenylphenylether		248	6.733	6.733	(0.956)	91285	38.8239	1580
63 Hexachlorobenzene		284	6.792	6.791	(0.964)	99543	39.2359	1590
68 Phenanthrene		178	7.059	7.059	(1.002)	507552	38.2697	1560
69 Anthracene		178	7.091	7.091	(1.007)	500209	37.1321	1510
72 Di-n-butylphthalate		149	7.332	7.332	(1.041)	629172	43.2613	1760
76 Fluoranthene		202	7.776	7.776	(1.104)	465507	37.4809	1520
85 Butylbenzylphthalate		149	8.236	8.241	(0.942)	266947	53.4158	2170
89 Benzo(a)anthracene		228	8.728	8.738	(0.999)	380422	37.5753	1530
90 3,3'-Dichlorobenzidine		252	8.669	8.658	(0.992)	97766	33.6838	1370
92 Chrysene		228	8.765	8.776	(1.003)	384731	37.7712	1530
93 bis(2-Ethylhexyl)phthalate		149	8.605	8.615	(0.985)	370820	51.7681	2100
94 Di-n-octylphthalate		149	9.166	9.182	(0.892)	576059	64.7755	2630
95 Benzo(b)fluoranthene		252	9.781	9.803	(0.952)	286977	40.9104	1660 (H)
96 Benzo(k)fluoranthene		252	9.813	9.835	(0.955)	324008	45.6497	1850
97 Benzo(a)pyrene		252	10.204	10.231	(0.993)	248390	41.4308	1680
99 Indeno(1,2,3-cd)pyrene		276	12.012	12.055	(1.169)	195252	36.2800	1470
100 Dibenzo(a,h)anthracene		278	12.017	12.055	(1.169)	166652	37.6200	1530
101 Benzo(ghi)perylene		276	12.552	12.589	(1.221)	151552	34.1633	1390
1 N-Methyl-N-nitrosomethylamine		74	2.464	2.443	(0.627)	112680	32.5859	1320

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 H - Operator selected an alternate compound hit.

Data File: /chem/MSD4.i/s022010,b/s4b2021.d

Date : 20-FEB-2010 18:06

Client ID: RE15-10-8361MSD

Sample Info: 11202040336195198911SVH11MSD_LANL

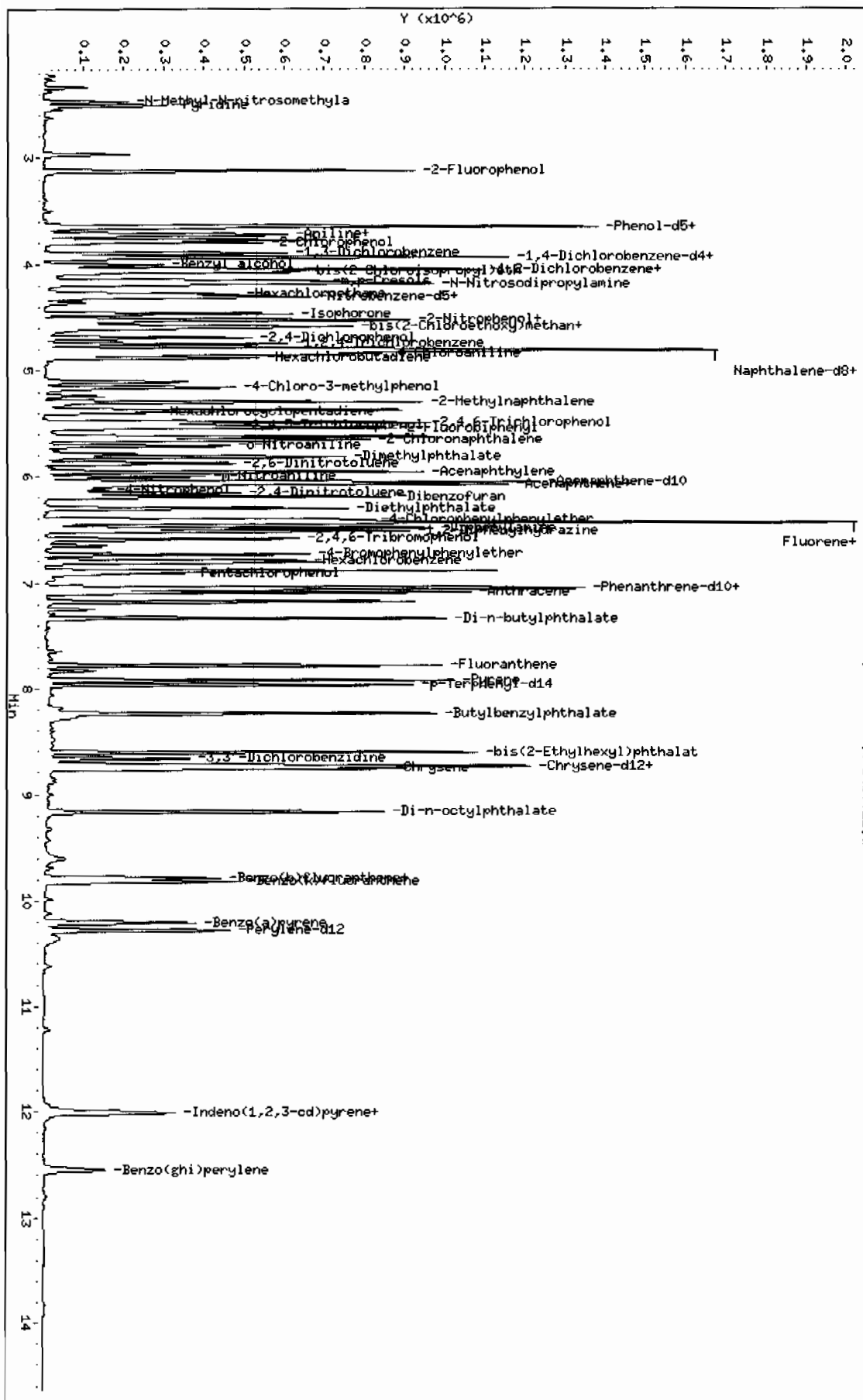
Volume Injected (uL): 0.5

Column phase: J&W DB-5MS

Instrument: MSD4.i

Operator: JMB3

Column diameter: 0.20



LC/MS/MS EXPLOSIVES ANALYSIS

**LC/MS/MS Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1620**

Method/Analysis Information

Procedure: Definitive Low Level Analysis of Nitroaromatic Explosives Utilizing Liquid Chromatography / Mass Spectrometry / Mass Spectrometry (LC/MS/MS) by SW-846 Method 8321 Modified (8321M)

Analytical Method: SW846 8321A Modified

Prep Method: SW846 8330 PREP

Analytical Batch Number: 950087

Prep Batch Number: 950086

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8321A Modified:

Sample ID	Client ID
246434002	RE15-10-8354
246434003	RE15-10-8356
246434004	RE15-10-8353
246434005	RE15-10-8352
246434006	RE15-10-8355
246434007	RE15-10-8351
246434008	RE15-10-8350
246434009	RE15-10-8357
246434010	RE15-10-8338
246434011	RE15-10-8336
246434012	RE15-10-8339
246434013	RE15-10-8337
246434014	RE15-10-8375
246434015	RE15-10-8374
1202035690	Method Blank (MB)
1202035691	Laboratory Control Sample (LCS)
1202035692	246434002(RE15-10-8354) Matrix Spike (MS)
1202035693	246434002(RE15-10-8354) Matrix Spike Duplicate (MSD)

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-056 REV# 12.

10-1620-EXPLCMS

Page 1 of 5

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Primary Analyte Analysis

Calibration Information

Initial Calibration

All initial calibration requirements for this analysis have been met for this SDG.

Calibration Verification Standard Requirements

All associated calibration verification standard(s) (ICV or CCV) for this analysis met the acceptance criteria.

Calibration Blank Requirements

All initial or continuing calibration blanks (ICB or CCB) bracketing the analyses associated with this batch for this analysis were within acceptance criteria. Due to software limitations, the CCBs and/or the ICBs may have a concentration for target analytes in the Found column. These values should be zero.

CRI Requirements

All low level calibration verification (CRI) requirements for this analysis were met by all bracketing CRI standards and may be based off the grand mean average percent recovery of all target analytes.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB(s) analyzed with this SDG for this analysis met the acceptance criteria.

Surrogate Recoveries

All the surrogate recoveries were within the established acceptance criteria in this SDG in this analytical batch for this analysis.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries were within the established acceptance limits.

QC Sample Designation

Sample 246434002 (RE15-10-8354) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS spike recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD spike recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD(s) between the MS and MSD met the acceptance limits.

Internal Standard (ISTD) Acceptance

The internal standard responses were within the required acceptance criteria for all samples and QC in this SDG.

Technical Information

Holding Time Specifications

All samples in this SDG in this analytical batch met the specified holding time. GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection of sample receipt. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

According to the GEL SOP for Method 8321A, all sample and QC extracts are diluted 1:1 v/v with HPLC grade water. The samples in this SDG in this analytical batch for this analysis did not require any additional dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG in this analytical batch for this analysis except for dilutions.

Secondary Analyte Analysis

Calibration Information

Initial Calibration

All initial calibration requirements for this analysis have been met for this SDG.

Calibration Verification Standard Requirements

All associated calibration verification standard(s) (ICV or CCV) for this analysis met the acceptance criteria.

Calibration Blank Requirements

All initial or continuing calibration blanks (ICB or CCB) bracketing the analyses associated with this batch for this analysis were within acceptance criteria. Due to software limitations, the CCBs and/or the ICBs may have a concentration for target analytes in the Found column. These values should be zero.

CRI Requirements

All low level calibration verification (CRI) requirements for this analysis were met by all bracketing CRI standards and may be based off the grand mean average percent recovery of all target analytes.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB(s) analyzed with this SDG for this analysis met the acceptance criteria.

Surrogate Recoveries

All the surrogate recoveries were within the established acceptance criteria in this SDG in this analytical batch for this analysis.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries were within the established acceptance limits.

QC Sample Designation

Sample 246434002 (RE15-10-8354) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS spike recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD spike recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD(s) between the MS and MSD met the acceptance limits.

Internal Standard (ISTD) Acceptance

The internal standards were not added to the secondary analyte extracts.

Technical Information**Holding Time Specifications**

All samples in this SDG in this analytical batch met the specified holding time. GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection of sample receipt. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

According to the GEL SOP for Method 8321A, all sample and QC extracts are diluted 1:1 v/v with HPLC grade water. The samples in this SDG in this analytical batch for this analysis did not require any additional dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG in this analytical batch for this analysis except for dilutions.

Miscellaneous Information**Data Exception (DER) Documentation**

Data exception reports (DERs) are generated to document procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Manual Integrations

Some initial calibration standards, continuing calibration standards, and/or samples required manual integrations due to software limitations.

Flagging Convention

The samples were not originally analyzed using SW-846 Method 8330.

Additional Comments

Due to software limitations, all initial calibration blanks must be designated as XIB001 in order for the forms to be correct.

Due to software limitations in the secondary analyte analysis, false positives and analytes detected below the MDL cannot be deleted from the raw data.

Due to software limitations, file extensions such as DL, RE, etc. may not appear on the generated forms and/or raw data.

System Configuration

The laboratory utilizes a Waters LC 2795 liquid chromatography instrument for primary analyte analysis. It is coupled with either a Micromass Quattro Micro Mass Spectrometer/ Mass Spectrometer, or a Micromass Quattro Ultima Mass Spectrometer/ Mass Spectrometer. Each being designated as LCMSMS #1, and LCMSMS #2, respectively. It is fitted with an APCI (Atmospheric Pressure chemical Ionization) probe that is operated in the negative ionization mode for the primary analyte analysis. The laboratory also utilizes an Agilent 1100 liquid chromatography instrument for either primary or secondary analyte analysis. It is coupled with a Applied Biosystems 4000 Mass Spectrometer/ Mass Spectrometer, designated as either LCMSMS #3 or LCMSMS #4. It is fitted with a APCI (Atmospheric Pressure chemical Ionization) probe that is operated in the negative ionization mode for both the primary and secondary analyte analysis.

Chromatographic Columns

The detection of the primary analyte nitroaromatic and nitramines is accomplished through analysis on the following reversed phase column:

Phenomenex: Ultracarb 5u ODS (20), 250 x 4.60 mm ID.

The detection of the secondary analytes is accomplished through analysis on the following reversed phase column:

YMC: J'sphere ODS-H80, 150 x 4.6mm I.D.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer: Hebert J. Moore Date: 03/25/10

SAMPLE DATA SUMMARY

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8354

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434002

Sample Amount 2

Moisture: 22.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323020a

Date Analyzed: 23-MAR-10 18:29

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8354

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434002

Sample Amount 2

Moisture: 22.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010129.wiff

Date Analyzed: 02-MAR-10 18:38

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8356

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434003

Sample Amount 2

Moisture: 14.7

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323026a

Date Analyzed: 23-MAR-10 21:26

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8356

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434003

Sample Amount 2

Moisture: 14.7

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010132.wiff

Date Analyzed: 02-MAR-10 19:25

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8353

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434004

Sample Amount 2

Moisture: 13.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323027a

Date Analyzed: 23-MAR-10 21:55

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8353

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434004

Sample Amount 2

Moisture: 13.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010133.wiff

Date Analyzed: 02-MAR-10 19:41

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8352

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434005

Sample Amount 2

Moisture: 23.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323028a

Date Analyzed: 23-MAR-10 22:25

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8352

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434005

Sample Amount 2

Moisture: 23.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010134.wiff

Date Analyzed: 02-MAR-10 19:57

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument	X	<u>Concentrated Extract Volume</u>	X	Dilution
Value		<u>Sample Amount</u>		Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8355

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434006

Sample Amount 2

Moisture: 12.7

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323029a

Date Analyzed: 23-MAR-10 22:54

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8355

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434006

Sample Amount 2

Moisture: 12.7

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010135.wiff

Date Analyzed: 02-MAR-10 20:12

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8351

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434007

Sample Amount 2

Moisture: 15.1

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323030a

Date Analyzed: 23-MAR-10 23:24

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8351

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434007

Sample Amount 2

Moisture: 15.1

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010136.wiff

Date Analyzed: 02-MAR-10 20:28

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8350

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434008

Sample Amount 2

Moisture: 23.1

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323031a

Date Analyzed: 23-MAR-10 23:53

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8350

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434008

Sample Amount 2

Moisture: 23.1

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010140.wiff

Date Analyzed: 02-MAR-10 21:31

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument	X	<u>Concentrated Extract Volume</u>	X	Dilution
Value		<u>Sample Amoun</u>		Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8357

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434009

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323032a

Date Analyzed: 24-MAR-10 00:23

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8357

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434009

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010141.wiff

Date Analyzed: 02-MAR-10 21:47

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8338

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434010

Sample Amount 2

Moisture: 22.4

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323033a

Date Analyzed: 24-MAR-10 00:52

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8338

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434010

Sample Amount 2

Moisture: 22.4

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010142.wiff

Date Analyzed: 02-MAR-10 22:03

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument	X	Concentrated Extract Volume	X	Dilution
Value		Sample Amoun		Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8336

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434011

Sample Amount 2

Moisture: 17.6

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323034a

Date Analyzed: 24-MAR-10 01:22

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8336

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434011

Sample Amount 2

Moisture: 17.6

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010143.wiff

Date Analyzed: 02-MAR-10 22:18

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8339

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434012

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323035a

Date Analyzed: 24-MAR-10 01:51

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8339

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434012

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010144.wiff

Date Analyzed: 02-MAR-10 22:34

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8337

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434013

Sample Amount 2

Moisture: 11.4

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323039a

Date Analyzed: 24-MAR-10 03:49

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8337

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434013

Sample Amount 2

Moisture: 11.4

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010145.wiff

Date Analyzed: 02-MAR-10 22:50

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument
Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution
Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8375

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434014

Sample Amount 2

Moisture: 19.7

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323040a

Date Analyzed: 24-MAR-10 04:19

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument	X	<u>Concentrated Extract Volume</u>	X	Dilution
Value		<u>Sample Amount</u>		Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8375

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434014

Sample Amount 2

Moisture: 19.7

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010146.wiff

Date Analyzed: 02-MAR-10 23:06

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8374

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434015

Sample Amount 2

Moisture: 6.3

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323041a

Date Analyzed: 24-MAR-10 04:48

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8374

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434015

Sample Amount 2

Moisture: 6.3

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010147.wiff

Date Analyzed: 02-MAR-10 23:21

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument	X	<u>Concentrated Extract Volume</u>	X	Dilution
Value		<u>Sample Amount</u>		Factor

QUALITY CONTROL SUMMARY

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
246434002	RE15-10-8354	114	70 - 144	
246434002	RE15-10-8354	92.4	70 - 144	
246434003	RE15-10-8356	99.6	70 - 144	
246434003	RE15-10-8356	93.2	70 - 144	
246434004	RE15-10-8353	108	70 - 144	
246434004	RE15-10-8353	94	70 - 144	
246434005	RE15-10-8352	111	70 - 144	
246434005	RE15-10-8352	96.8	70 - 144	
246434006	RE15-10-8355	110	70 - 144	
246434006	RE15-10-8355	96.4	70 - 144	
246434007	RE15-10-8351	100	70 - 144	
246434007	RE15-10-8351	91.6	70 - 144	
246434008	RE15-10-8350	108	70 - 144	
246434008	RE15-10-8350	94.4	70 - 144	
246434009	RE15-10-8357	103	70 - 144	
246434009	RE15-10-8357	94.4	70 - 144	
246434010	RE15-10-8338	102	70 - 144	
246434010	RE15-10-8338	93.2	70 - 144	
246434011	RE15-10-8336	105	70 - 144	
246434011	RE15-10-8336	93.6	70 - 144	
246434012	RE15-10-8339	110	70 - 144	
246434012	RE15-10-8339	93.6	70 - 144	
246434013	RE15-10-8337	100	70 - 144	
246434013	RE15-10-8337	92.4	70 - 144	
246434014	RE15-10-8375	102	70 - 144	
246434014	RE15-10-8375	92.8	70 - 144	
246434015	RE15-10-8374	106	70 - 144	
246434015	RE15-10-8374	96.8	70 - 144	
1202035690	MB for batch 950086	103	70 - 144	
1202035690	MB for batch 950086	92.8	70 - 144	
1202035691	LCS for batch 950086	108	70 - 144	
1202035691	LCS for batch 950086	95.2	70 - 144	
1202035692	RE15-10-8354(246434002MS)	103	70 - 144	
1202035692	RE15-10-8354(246434002MS)	92	70 - 144	
1202035693	RE15-10-8354(246434002MSD)	112	70 - 144	
1202035693	RE15-10-8354(246434002MSD)	94	70 - 144	

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
---------------	------------------	-----	-----------	-----

DNT = 3,4-Dinitrotoluene

3B
High Explosives LCS/LCS Duplicate Summary

Lab Name: GEL Laboratories LLC

Client ID: LCS

Lab Code: GEL

GEL Job No (SDG) 10-1620

Extract Batch Code: 950086

Date Extracted: 16-FEB-10

GEL LCS ID: 1202035691

GEL LCSDUP ID:

Analysis Date/Time: 23-MAR-10 17:59

DUP Analysis Date/Time:

Reporting Units: ug/kg

QC Type: LCS/LCSD

Compound	Spike Added	LCS Conc	LCS Rec #	LCSD Conc	LCSD Rec #	RPD #	RPD	Recovery Limits
HMX	5000	4830	96.5					58 - 138
Nitrobenzene	5000	4870	97.5					71 - 122
PETN	5000	5730	115					64 - 137
2,4,6-Trinitrotoluene	5000	4540	90.7					73 - 149
4-Amino-2,6-dinitrotoluene	5000	5260	105					84 - 130
2-Amino-4,6-dinitrotoluene	5000	5440	109					90 - 130
2,6-Dinitrotoluene	5000	5040	101					89 - 120
2,4-Dinitrotoluene	5000	5080	102					87 - 137
1,3,5-Trinitrobenzene	5000	4280	85.5					69 - 126
RDX	5000	5410	108					81 - 137
Tetryl	5000	2560	51.2					51 - 112
m-Dinitrobenzene	5000	5150	103					83 - 122
m-Nitrotoluene	5000	5170	103					73 - 118
o-Nitrotoluene	5000	5210	104					72 - 119
p-Nitrotoluene	5000	5340	107					67 - 131

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

3B
High Explosives LCS/LCS Duplicate Summary

Lab Name: GEL Laboratories LLC

Client ID: LCS

Lab Code: GEL

GEL Job No (SDG) 10-1620

Extract Batch Code: 950086

Date Extracted: 16-FEB-10

GEL LCS ID: 1202035691

GEL LCSDUP ID:

Analysis Date/Time: 02-MAR-10 18:22

DUP Analysis Date/Time:

Reporting Units: ug/kg

QC Type: LCS/LCSD

Compound	Spike Added	LCS Conc	LCS Rec #	LCSD Conc	LCSD Rec #	RPD #	RPD	Recovery Limits
2,4-Diamino-6-nitrotoluene	5000	5490	110					52 - 114
2,6-Diamino-4-nitrotoluene	5000	5690	114					64 - 122
TATB	5000	5020	100					28 - 162
3,5-Dinitroaniline	5000	4660	93.2					70 - 127
tris(o-cresyl) phosphate	5000	4780	95.6					84 - 119

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE15-10-8354

Lab Code: GEL

GEL Job No (SDG) 10-1620

Extract Batch Code: 950086

Date Extracted: 16-FEB-10

GEL Spike ID: 1202035692

GEL SpikeDup ID: 1202035693

Analysis Date/Time: 23-MAR-10 18:58

MSD Analysis Date/Time:

Reporting Units: ug/kg

QC Type: MS/MSD

Compound	Spike Added	Sample Conc	MS Conc	MS Rec #	MSD Conc	MSD Rec #	RPD #	RPD Limit	Rec Limits
2,4-Dinitrotoluene	5000	0	4860	97.2	5130	103	5.47	30	86 – 135
2,6-Dinitrotoluene	5000	0	4630	92.6	5020	100	7.99	30	90 – 118
2-Amino-4,6-dinitrotoluene	5000	0	5100	102	5420	108	6.15	30	85 – 137
4-Amino-2,6-dinitrotoluene	5000	0	5570	111	5410	108	2.99	30	72 – 143
HMX	5000	0	4390	87.7	4750	95	7.98	30	51 – 144
Nitrobenzene	5000	0	4620	92.4	4560	91.2	1.22	30	70 – 122
2,4,6-Trinitrotoluene	5000	0	5370	107	4830	96.7	10.4	30	76 – 144
1,3,5-Trinitrobenzene	5000	0	4000	80	4490	89.9	11.7	30	50 – 140
PETN	5000	0	5060	101	4800	96.1	5.3	30	60 – 140
RDX	5000	0	4580	91.6	4920	98.4	7.18	30	59 – 152
Tetryl	5000	0	3770	75.4	4050	81	7.18	30	36 – 124
m-Dinitrobenzene	5000	0	4830	96.7	5000	100	3.4	30	85 – 118
m-Nitrotoluene	5000	0	4520	90.5	4600	91.9	1.59	30	70 – 120
o-Nitrotoluene	5000	0	4520	90.3	4590	91.9	1.7	30	69 – 123
p-Nitrotoluene	5000	0	4630	92.5	4820	96.4	4.14	30	65 – 133

#Column to be used to flag recovery and RPD values with an asterisk

High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE15-10-8354

Lab Code: GEL

GEL Job No (SDG) 10-1620

Extract Batch Code: 950086

Date Extracted: 16-FEB-10

GEL Spike ID: 1202035692

GEL SpikeDup ID: 1202035693

Analysis Date/Time: 02-MAR-10 18:54

MSD Analysis Date/Time:

Reporting Units: ug/kg

QC Type: MS/MSD

Compound	Spike Added	Sample Conc	MS Conc	MS Rec #	MSD Conc	MSD Rec #	RPD #	RPD Limit	Rec Limits
2,4-Diamino-6-nitrotoluene	5000	0	5100	102	5210	104	2.13	26	34 - 135
2,6-Diamino-4-nitrotoluene	5000	0	5660	113	5630	113	.531	30	55 - 130
3,5-Dinitroaniline	5000	0	4580	91.6	4630	92.6	1.09	30	73 - 129
tris(o-cresyl) phosphate	5000	0	4500	90	4610	92.2	2.42	30	72 - 127
TATB	5000	0	4930	98.6	5070	101	2.8	30	29 - 155

#Column to be used to flag recovery and RPD values with an asterisk

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 23-MAR-10 09:08

GEL Data File: EXP0323001a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	229.482
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	228.802
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 1 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\032310expa.mdb, Time: Tue Mar 23 14:06:48 2010

Calibration: Untitled, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323001a

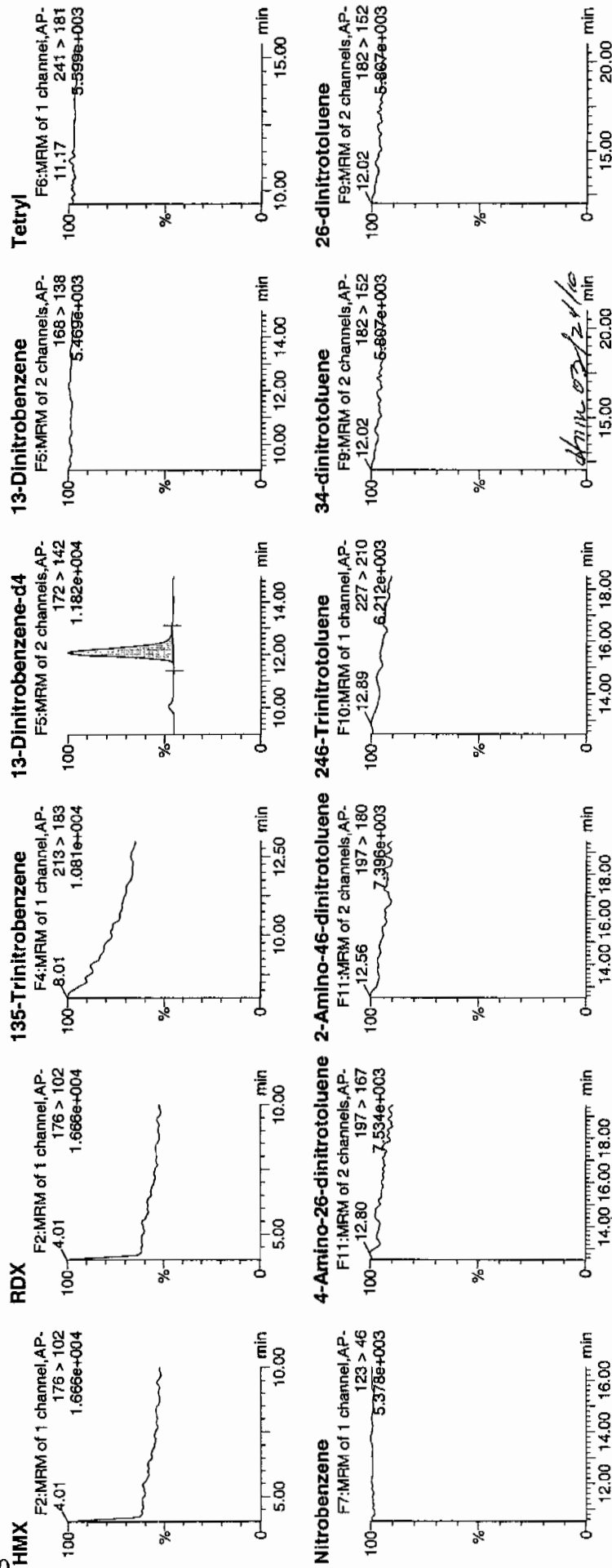
Date: 23-Mar-2010

Time: 09:08:58

ID: XIBLK01

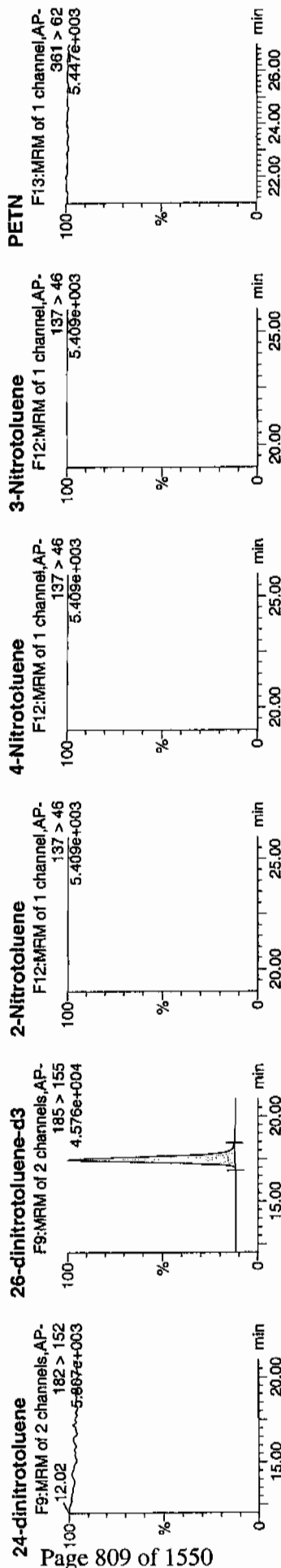
Vial: 1:1,A

550



Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



ID	Name	Trace	RT	Area	S Area	Abs. Resp	Response	Flags	Mod	Date	%Rec	%Dev	S/N
XIBLK01	HMX	176 > 102		2526.262									
XIBLK01	RDX	176 > 102		2526.262									
XIBLK01	135-Trinitrobenzene	213 > 183		2526.262									
XIBLK01	13-Dinitrobenzene-d4	172 > 142	12.07	2526.262									
XIBLK01	13-Dinitrobenzene	168 > 138		2526.262									
XIBLK01	Tetryl	241 > 181		2526.262									
XIBLK01	Nitrobenzene	123 > 46		2526.262									
XIBLK01	4-Amino-26-dinitrotoluene	197 > 167		15755.593									
XIBLK01	2-Amino-46-dinitrotoluene	197 > 180		15755.593									
XIBLK01	246-Trinitrotoluene	227 > 210		15755.593									
XIBLK01	34-dinitrotoluene	182 > 152		15755.593									
XIBLK01	26-dinitrotoluene	182 > 152		15755.593									
XIBLK01	24-dinitrotoluene	182 > 152		15755.593									
XIBLK01	26-dinitrotoluene-d3	185 > 155	17.47	15755.593									
XIBLK01	2-Nitrotoluene	137 > 46		15755.593									
XIBLK01	4-Nitrotoluene	137 > 46		15755.593									
XIBLK01	3-Nitrotoluene	137 > 46		15755.593									
XIBLK01	PETN	361 > 62		15755.593									
						15755.593	15755.593	bb			45.8	-54.2	1652.1
						2526.262	2526.262	bb			45.9	-54.1	223.1
						229.4819	229.4819						
						228.8024	228.8024						

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 23-MAR-10 09:38

GEL Data File: EXP0323002a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	249.294
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	247.4
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0

Quantify Sample Report
 GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323002a

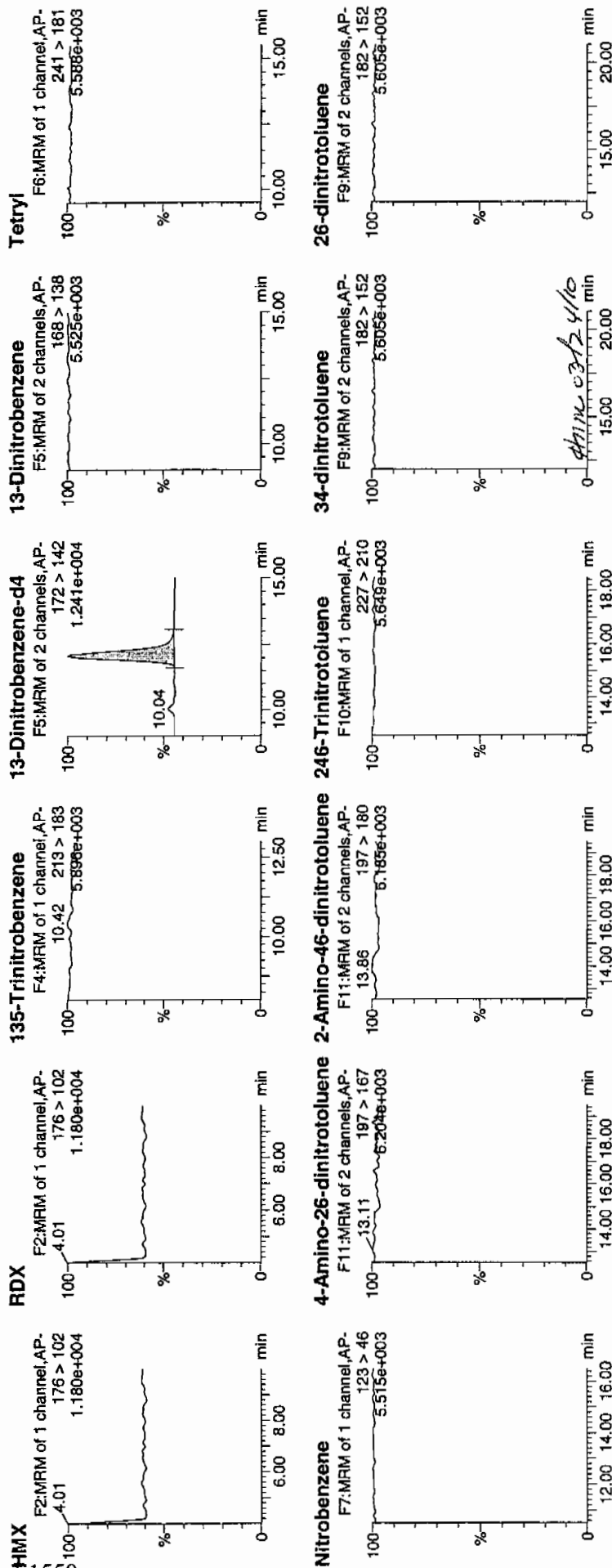
Date: 23-Mar-2010

Time: 09:38:34

ID: XIBLK01

Vial: 1:1,A

100%
3/24/10

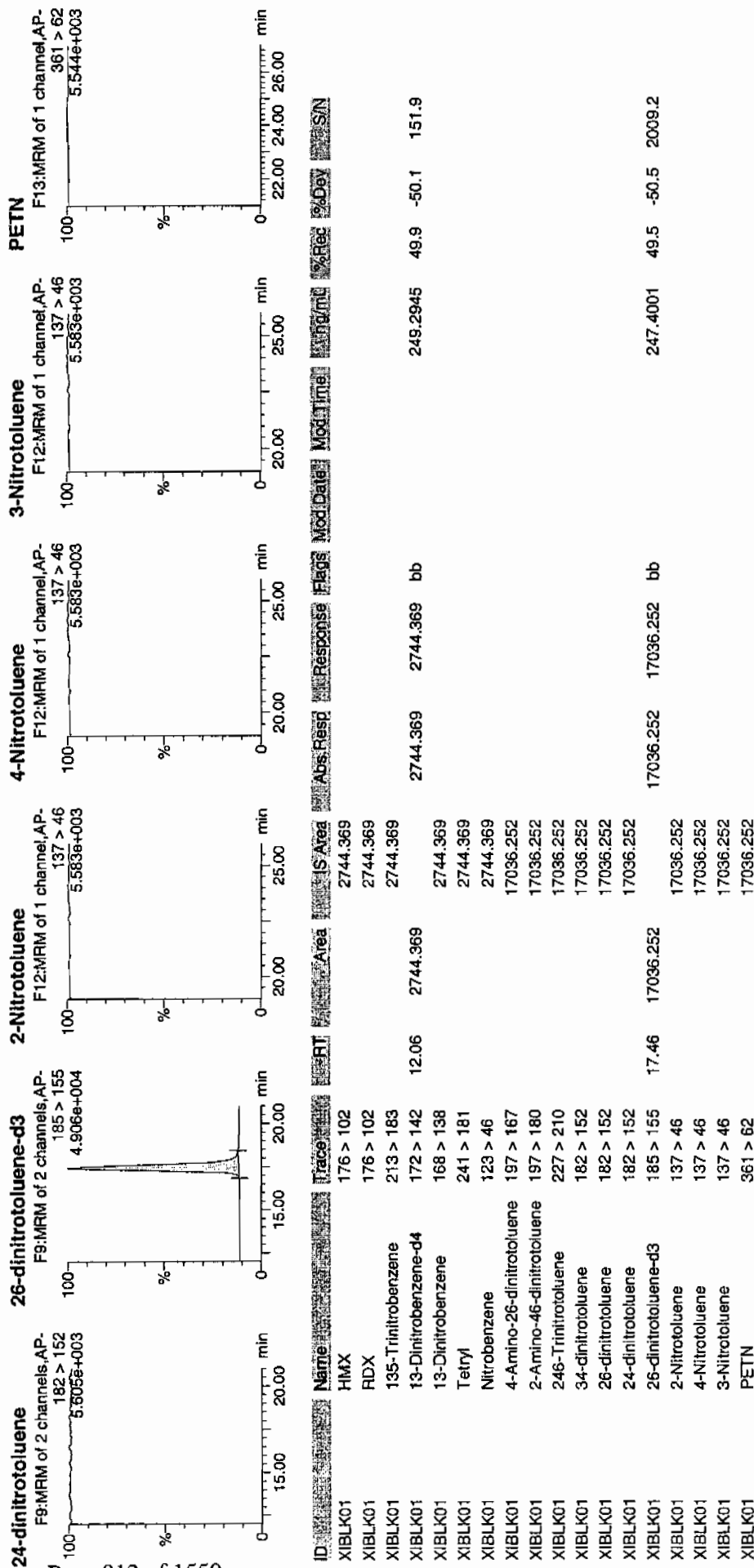


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 4 of 99

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 01-MAR-10 09:03

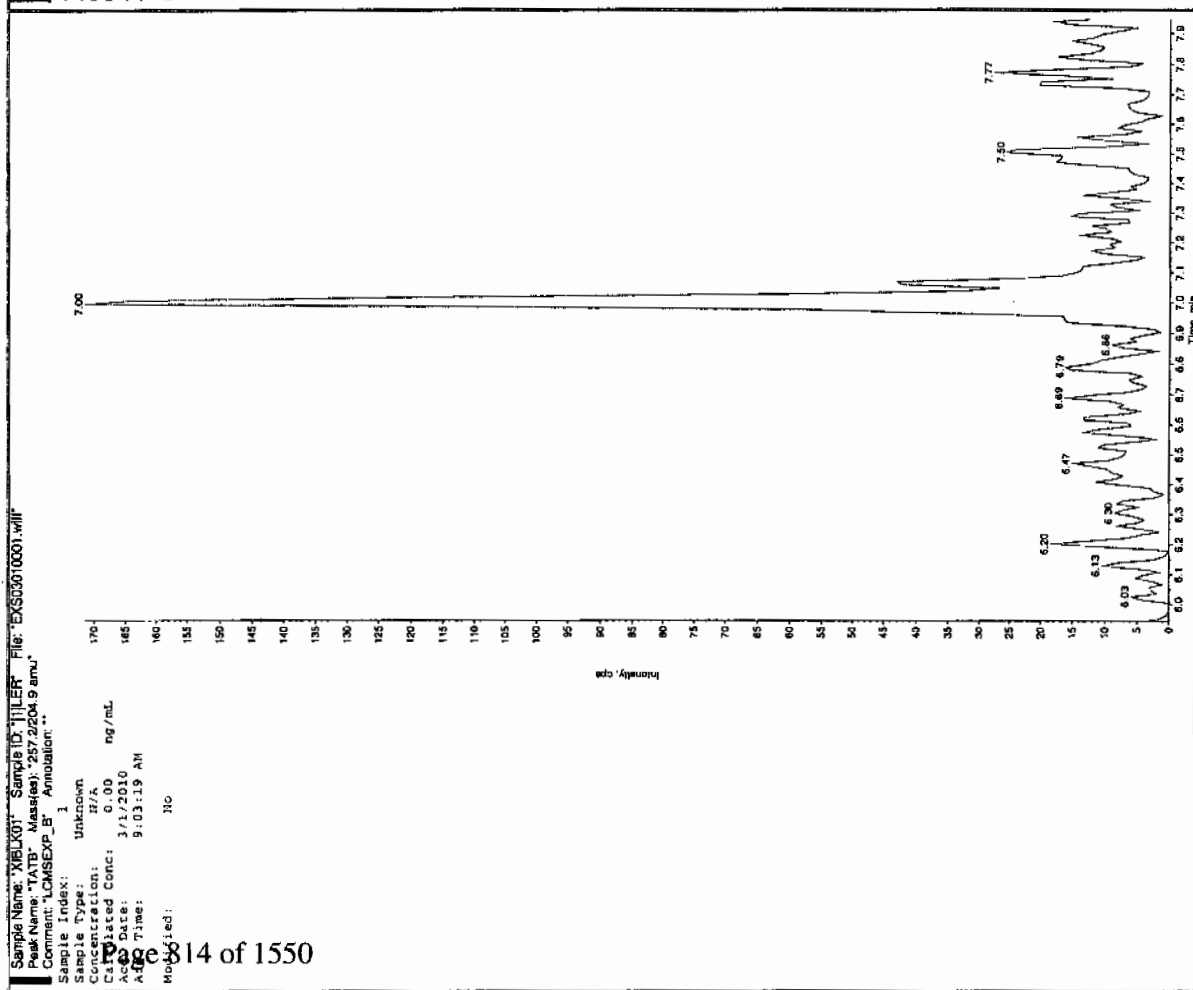
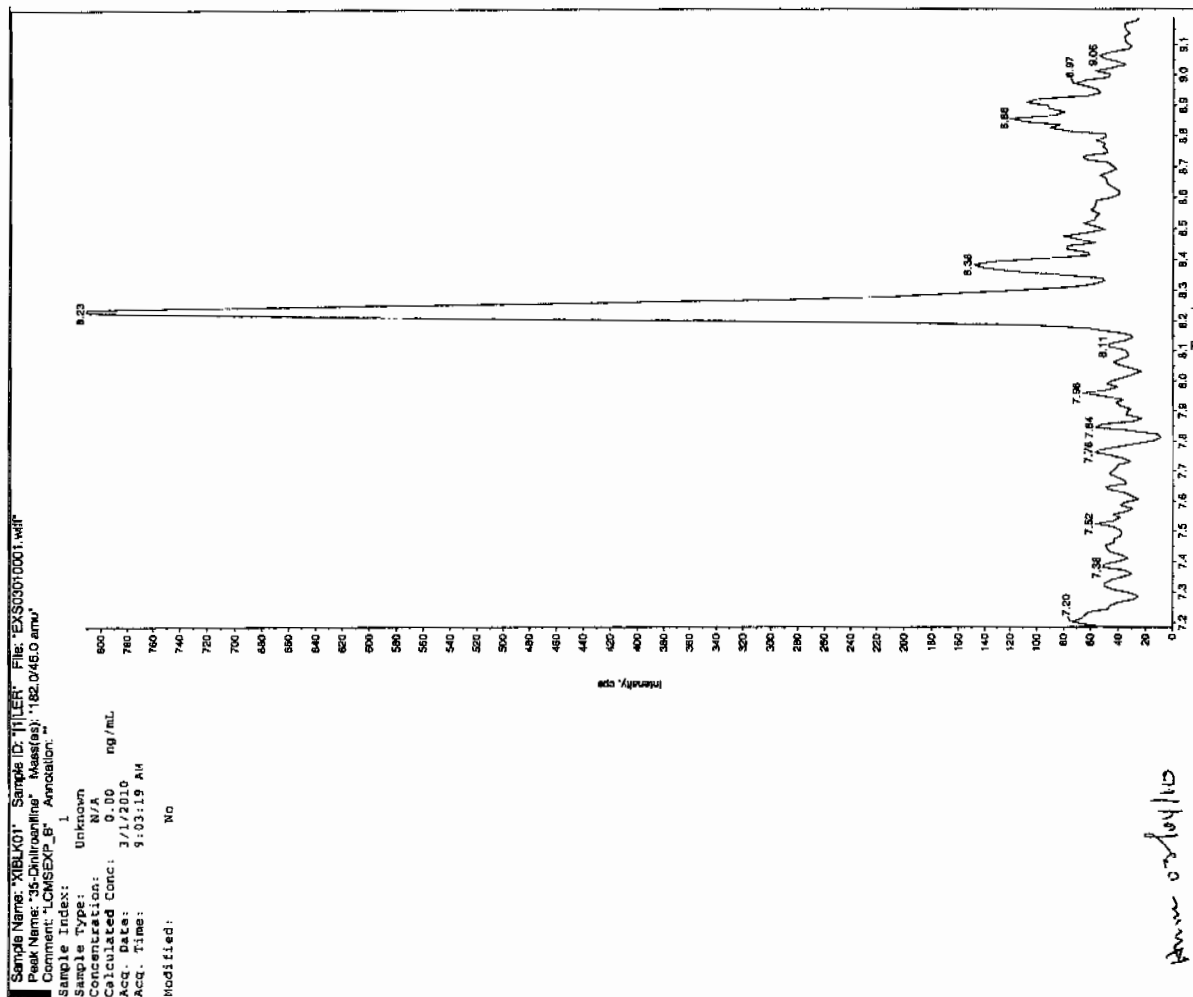
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Instrument ID: LCMSMS

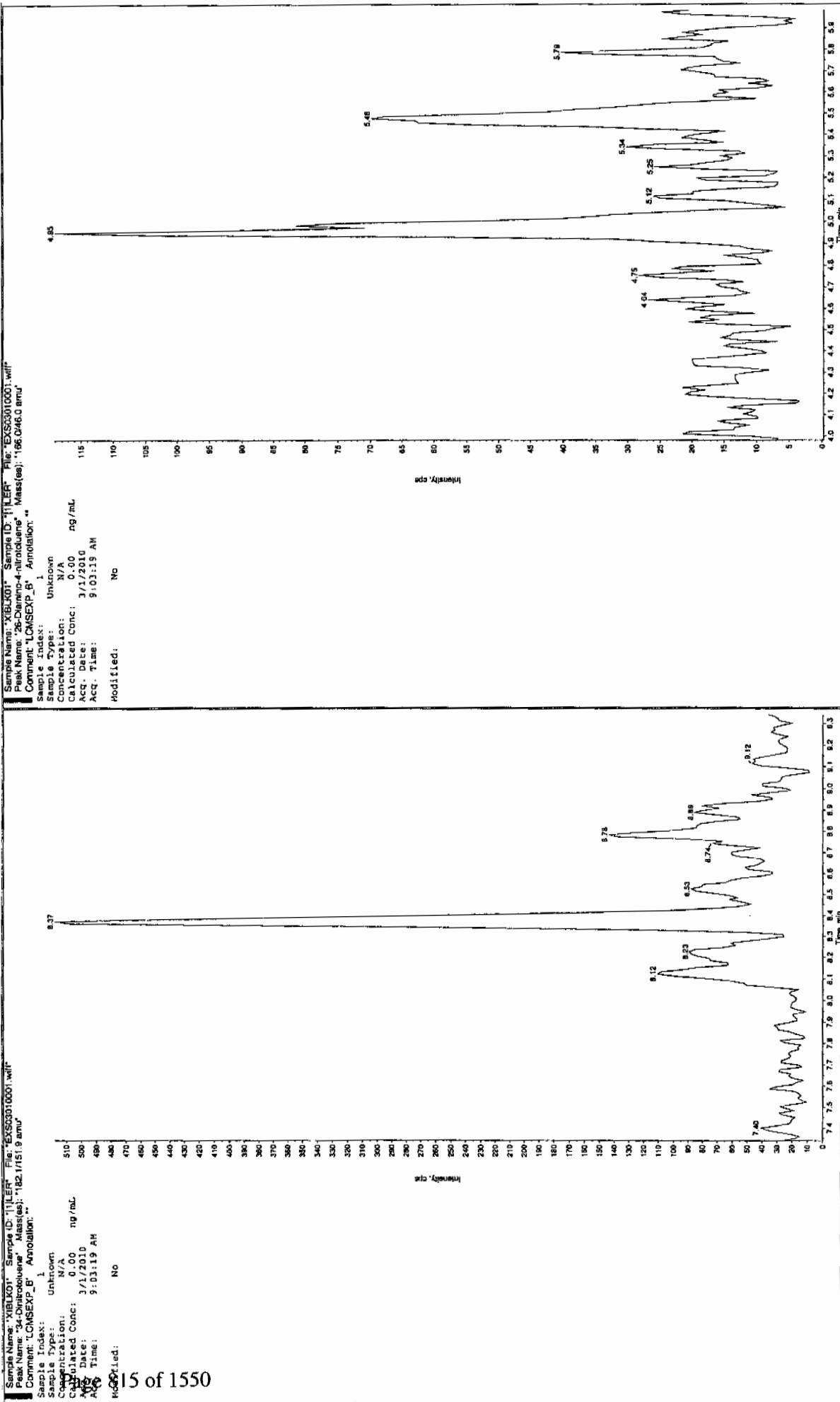
Column: Phenomenex Ultracarb 5u ODS(20)

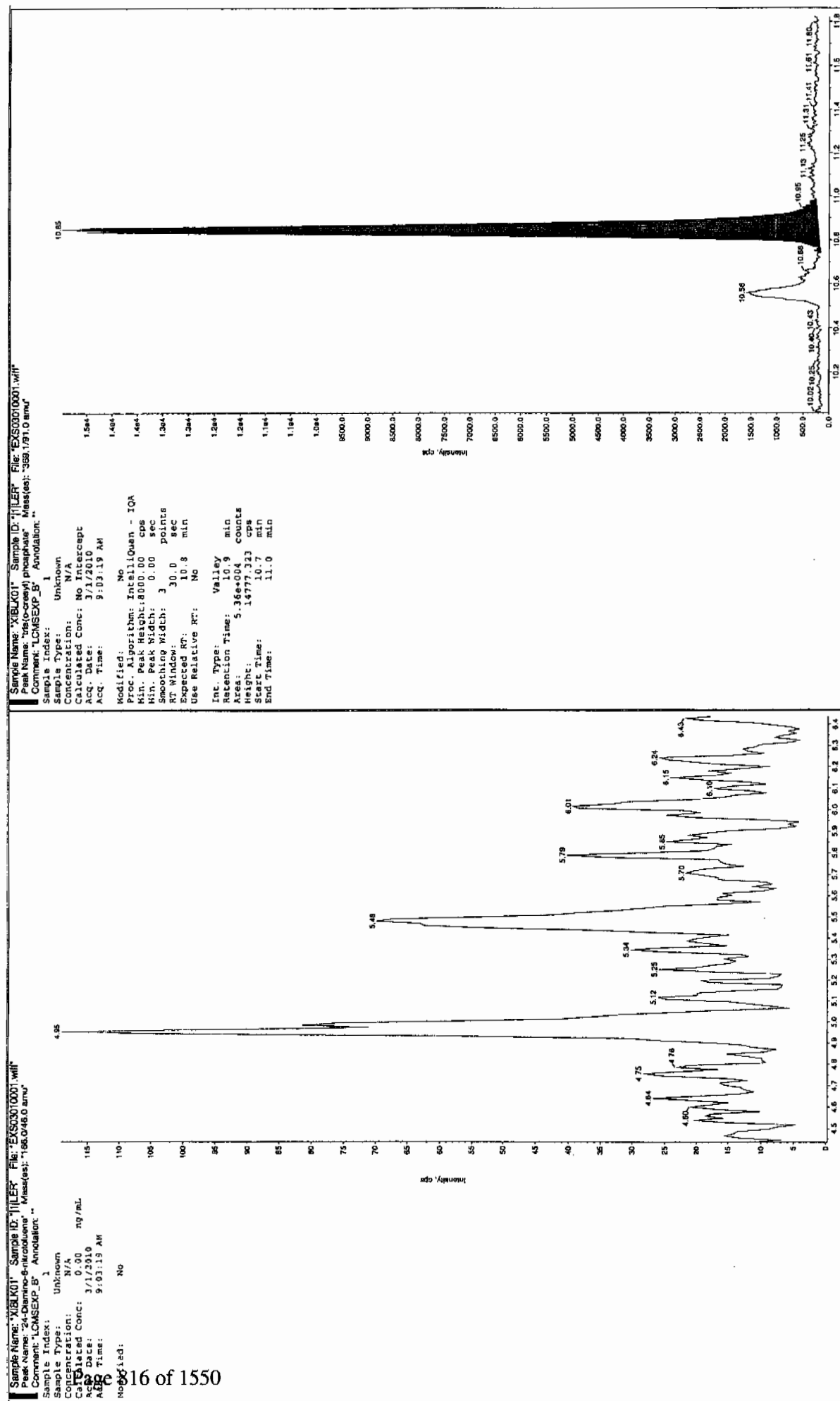
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Ken 3/3/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 01-MAR-10 09:19

GEL Data File: EXS03010002.wiff

Instrument ID: LCMSMS

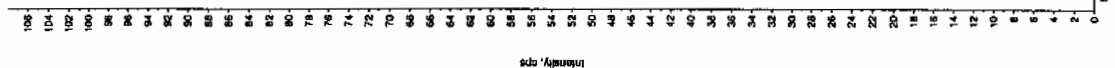
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

for 31310

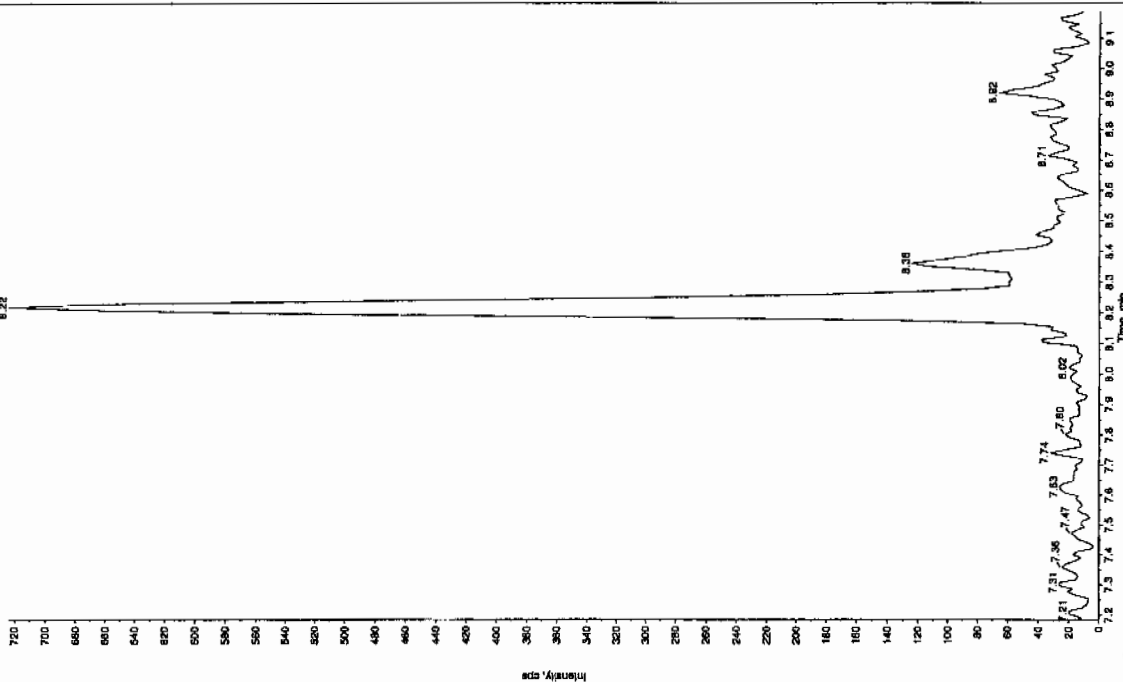
Sample Name: 'XBLU01' Sample ID: '111ER' File: 'EX03010002.wif'
 Peak Name: 'ATB' Mass(es): '257.22045 amu'
 Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/1/2010
 Acq. Date: 9:19:07 AM
 Acq. Time: 9:19:07 AM
 Modified: No



Sample Name: 'XBLU01' Sample ID: '111ER' File: 'EX03010002.wif'
 Peak Name: '35-Carboxanthracene' Mass(es): '182.0460 amu'
 Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/1/2010
 Acq. Date: 9:19:07 AM
 Acq. Time: 9:19:07 AM
 Modified: No

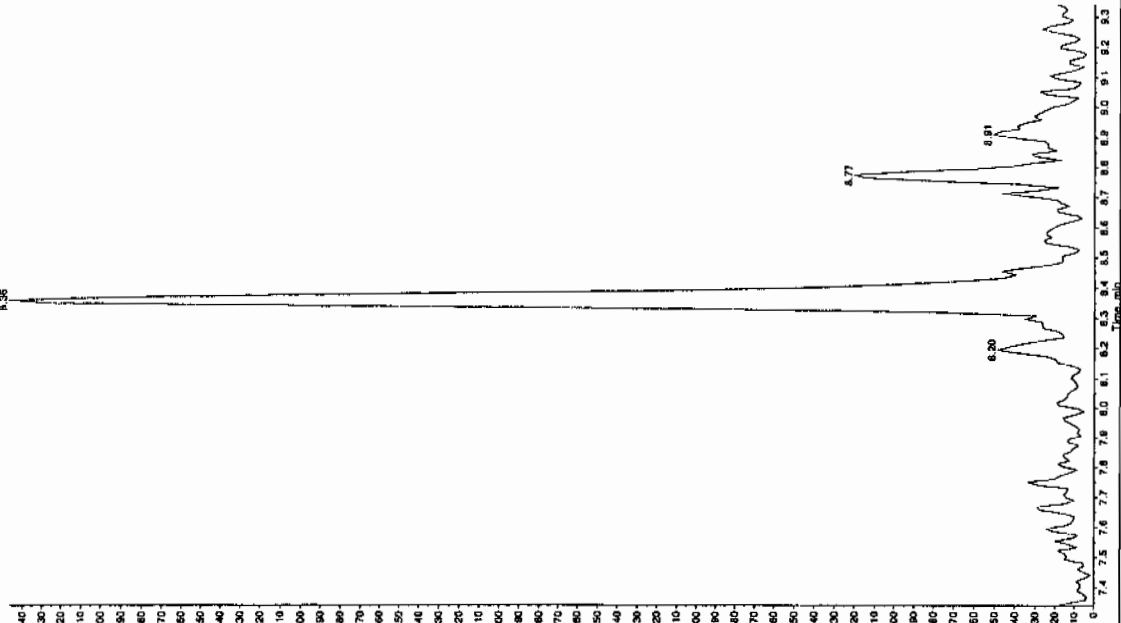


for 03104102

Sample Name: "XIBLK01" Sample ID: "111ER" File: "EX503010002.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 9:19:07 AM
 Modified: No

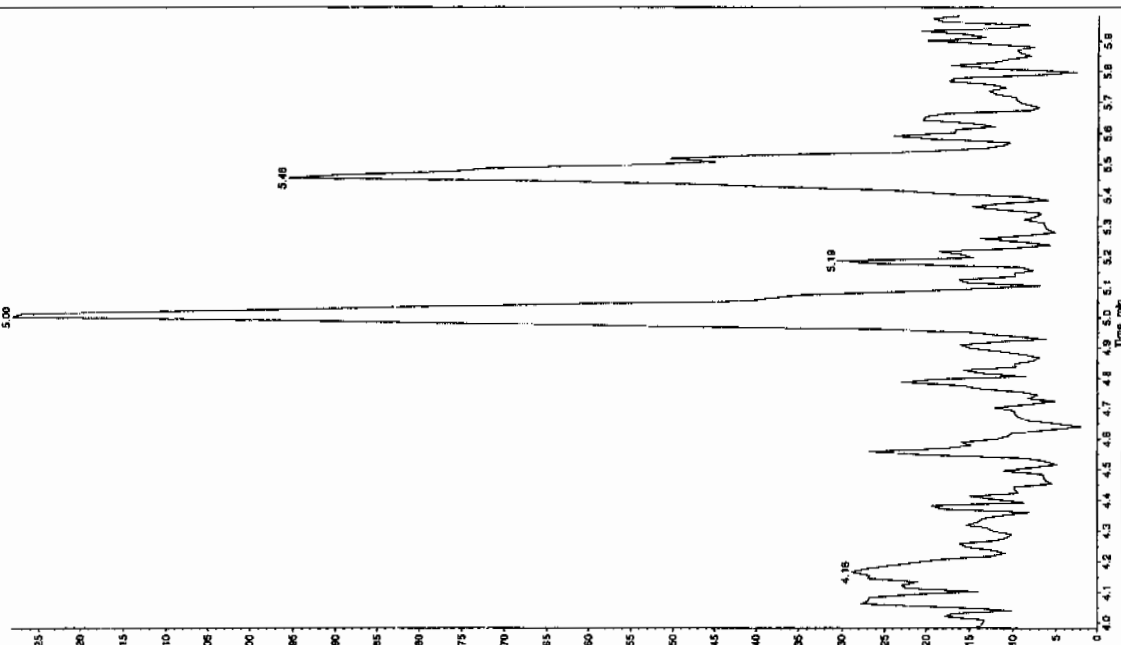
Intensity, cps

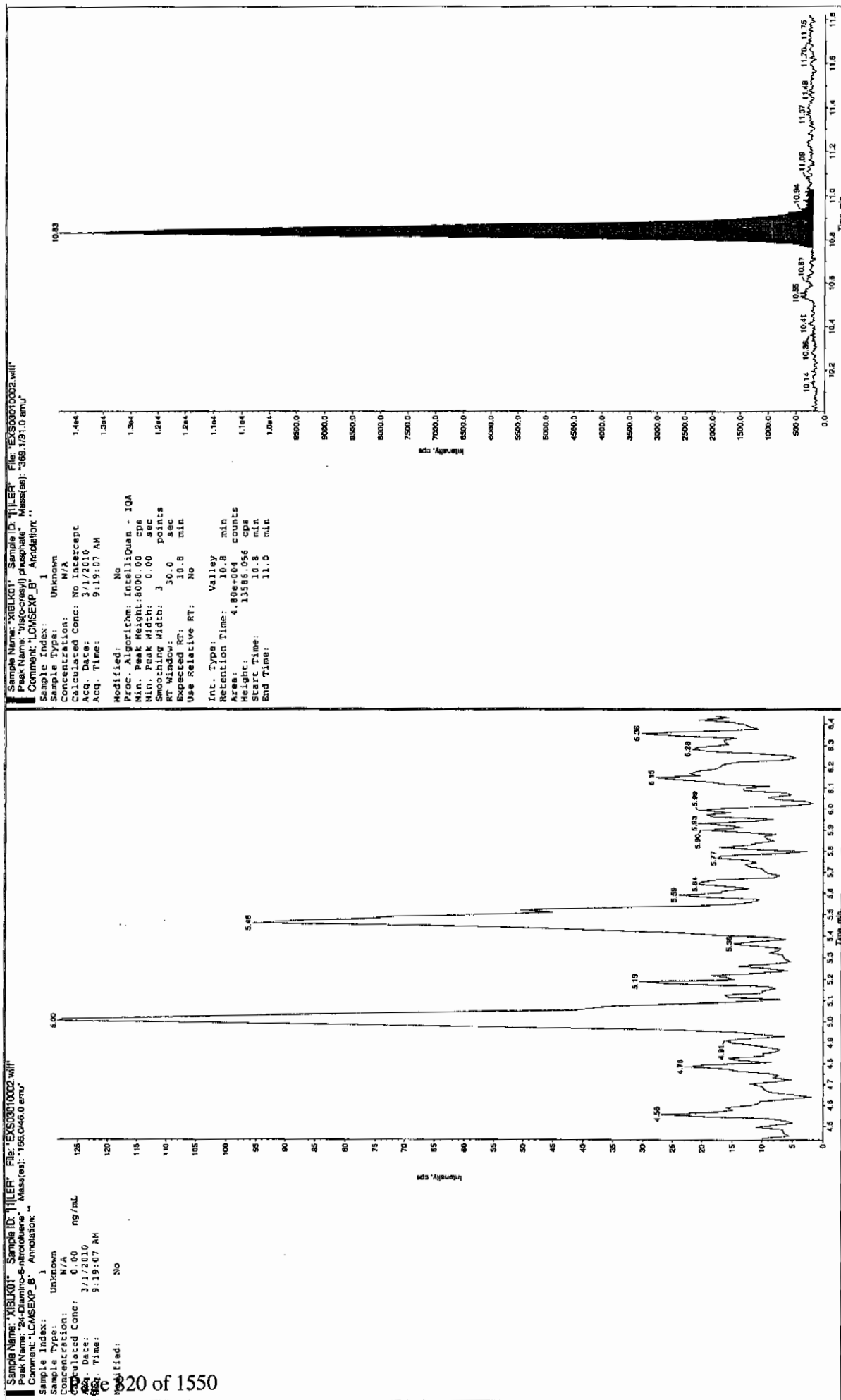


Sample Name: "XIBLK01" Sample ID: "111ER" File: "EX503010002.wif"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/166.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 9:19:07 AM
 Modified: No

Intensity, cps





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 23-MAR-10 13:04

GEL Data File: EXP0323009a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	400.005
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	359.09
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323009a

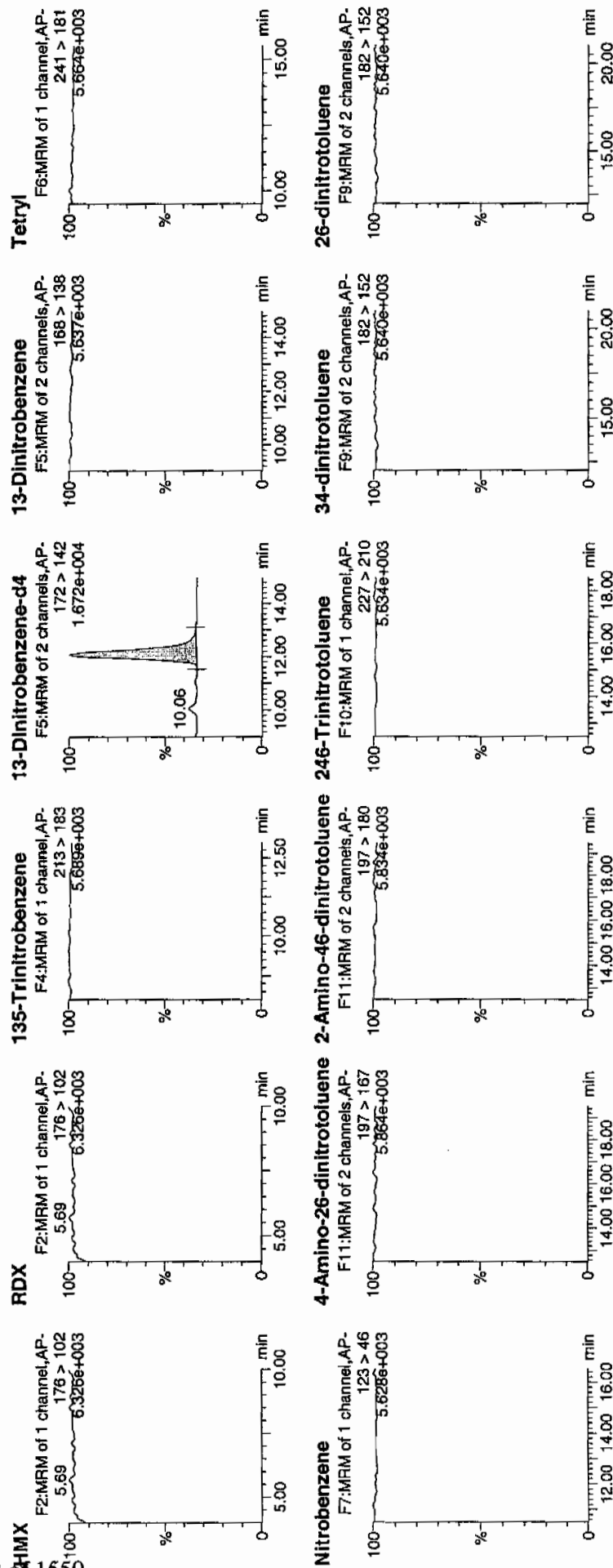
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Time: 13:04:52

ID: XIBLK02

Vial: 1:1,A

WAT
5/24/10



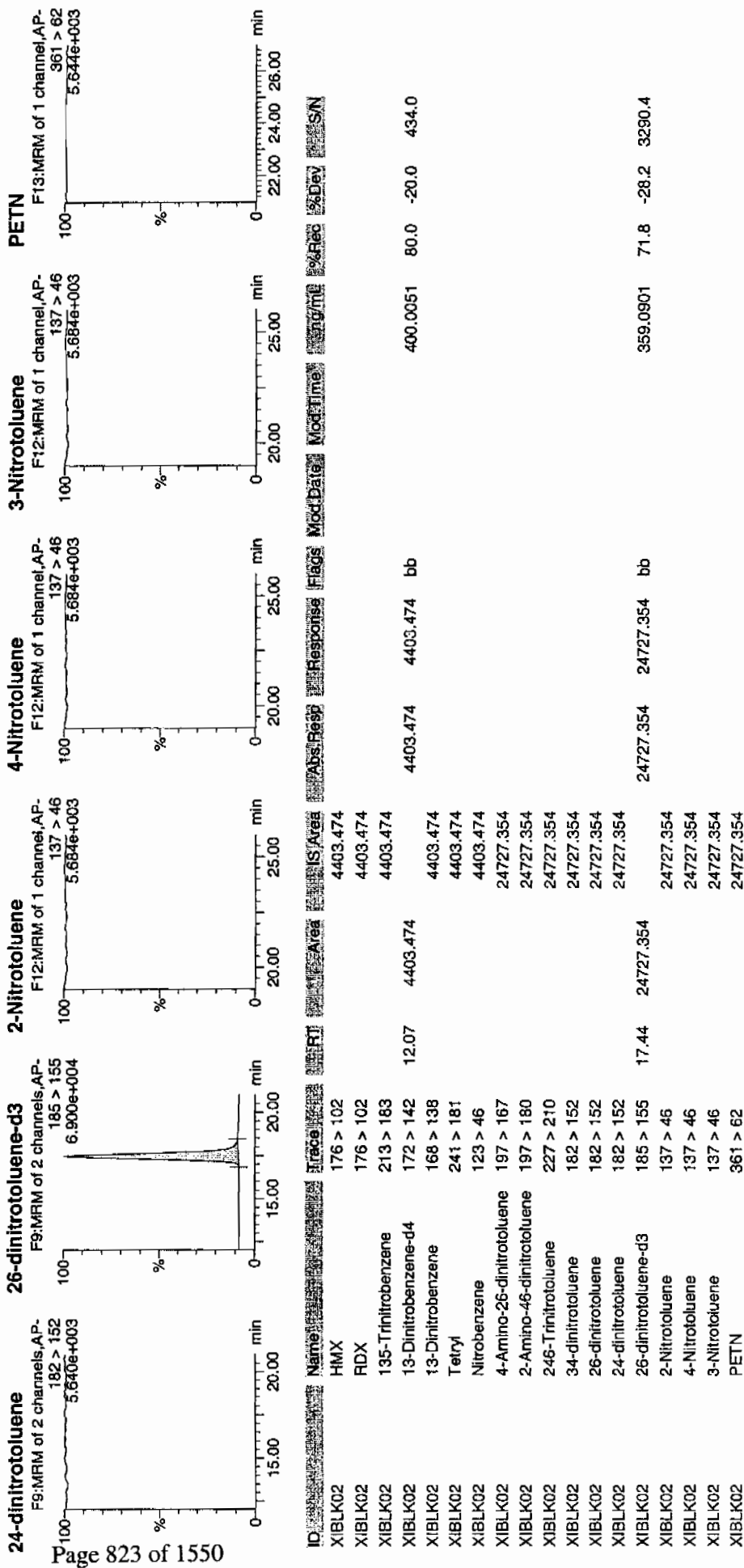
Harmon 3/24/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 18 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 23-MAR-10 14:03

GEL Data File: EXP0323011a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	505.262
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	469.688
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

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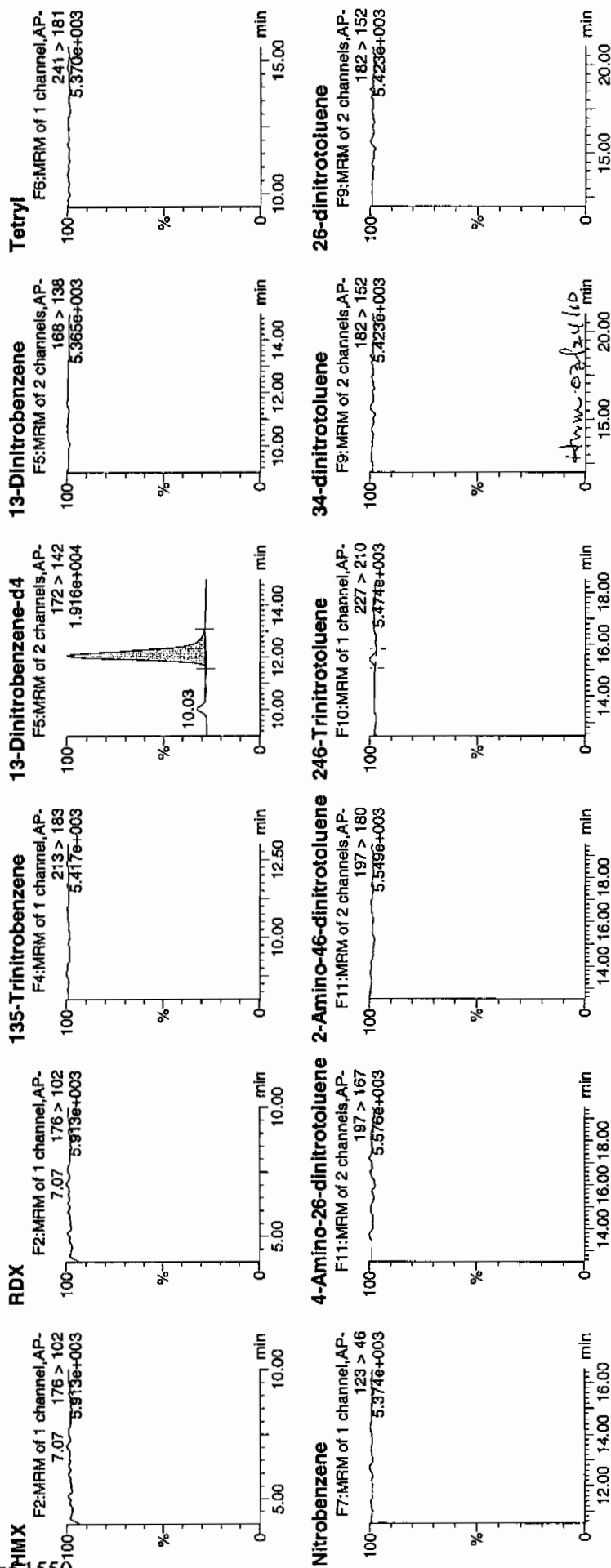
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Time: 14:03:49

ID: XIBLK03

Vial: 1:1,A

1007
3/24/10

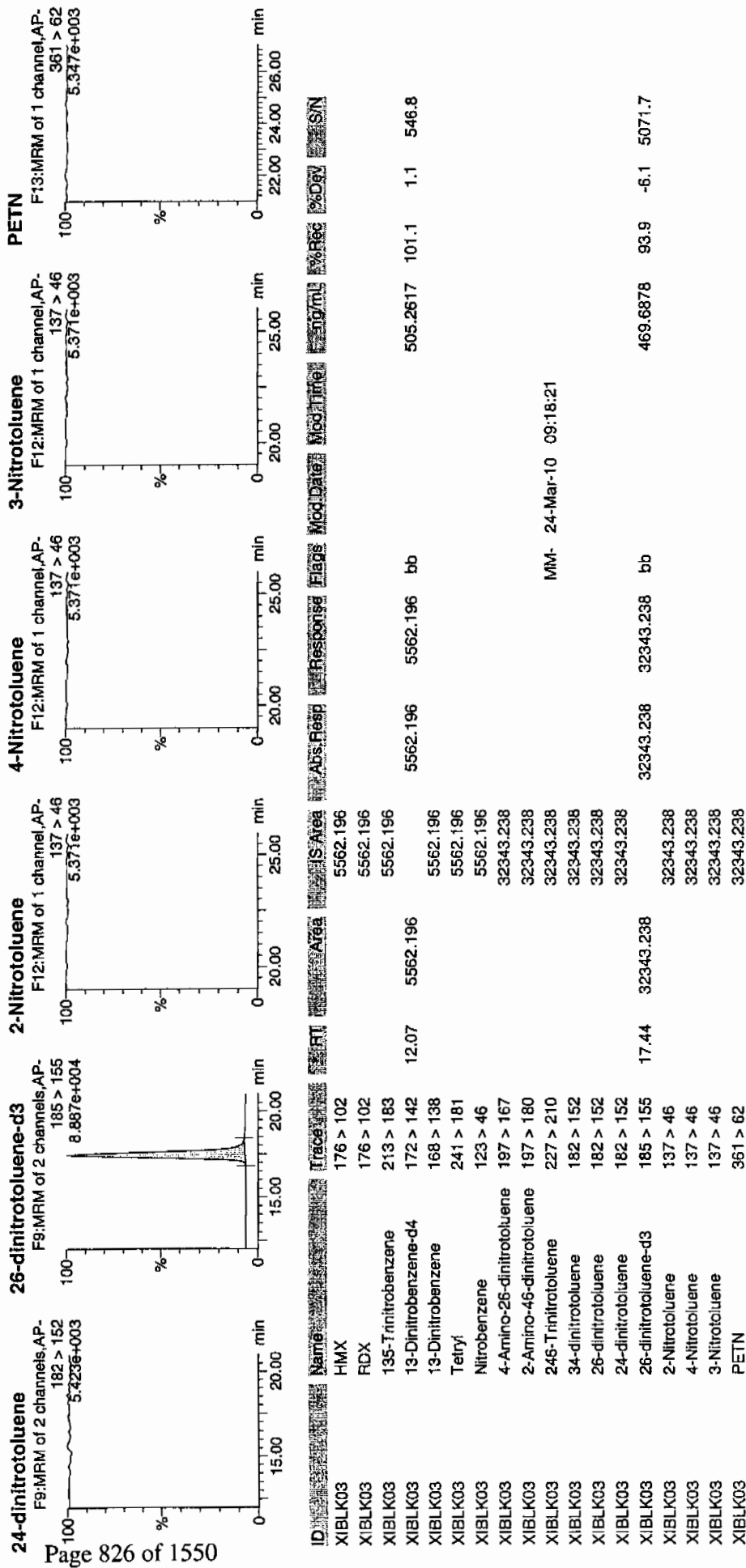


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 22 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 23-MAR-10 20:27

GEL Data File: EXP0323024a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	562.021
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	528.426
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323024a

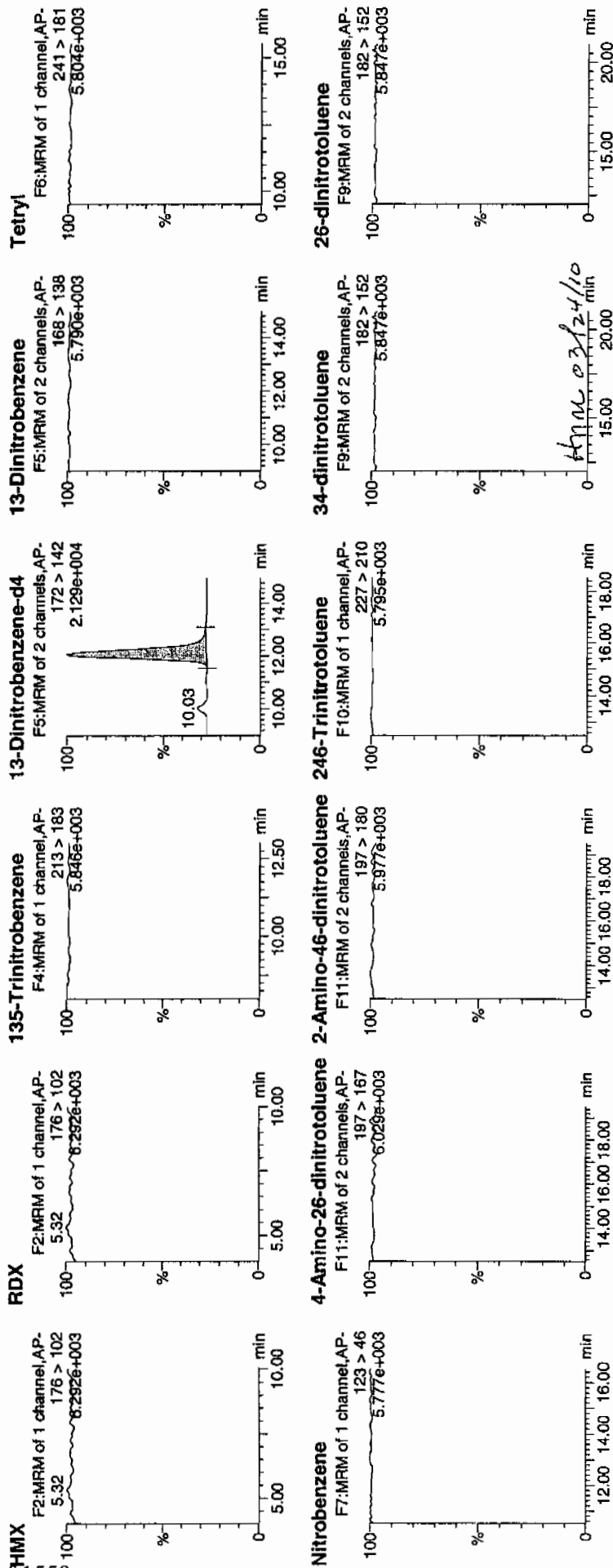
Date: 23-Mar-2010

Time: 20:27:13

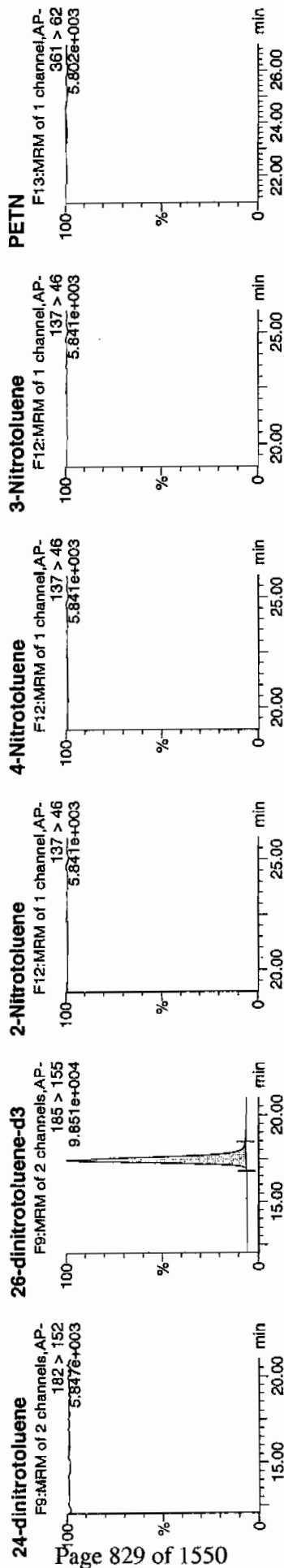
ID: XIBLK04

Vial: 1:1,A

HT
3/24/10



Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

[illegible]

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 24-MAR-10 02:50

GEL Data File: EXP0323037a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	534.426
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	585.234
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0323037a

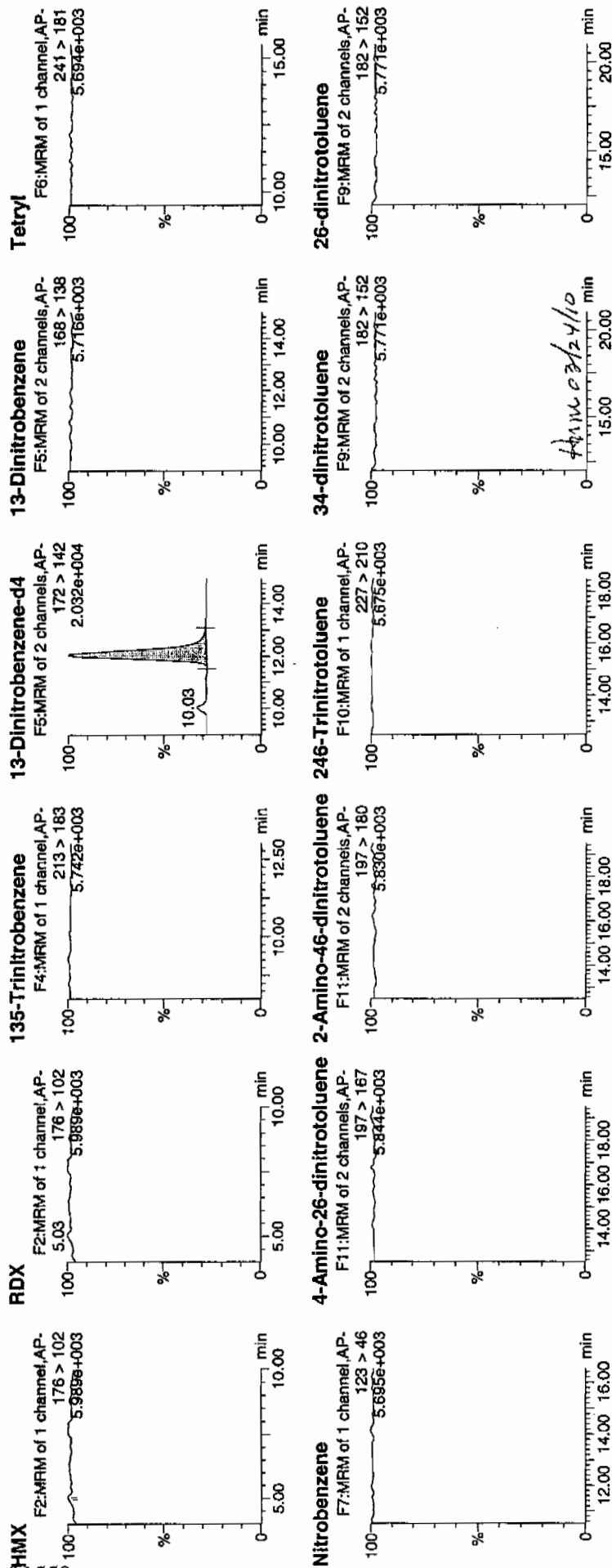
Date: 24-Mar-2010

Time: 02:50:36

ID: XIBLK05

Vial: 1:1,A

10/17
3/24/10

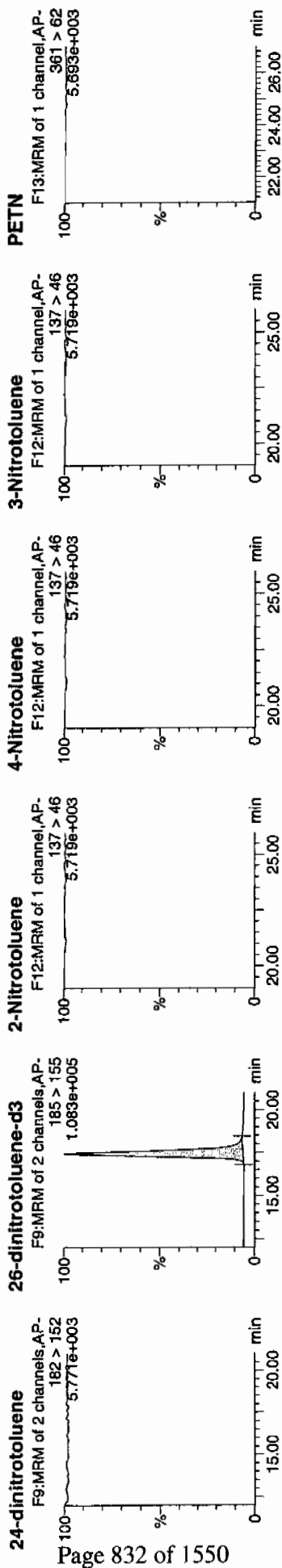


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 74 of 99

Dataset: C:\MASSLYN\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Area/m	%Rec	%Dev	SN
XIBLK05	HMX	176 > 102			5883.251									
XIBLK05	RDX	176 > 102			5883.251									
XIBLK05	135-Trinitrobenzene	213 > 183			5883.251									
XIBLK05	13-Dinitrobenzene-d4	172 > 142	12.03	5883.251		5883.251	5883.251	bb			534.4259	106.9	6.9	1325.9
XIBLK05	13-Dinitrobenzene	168 > 138			5883.251									
XIBLK05	Tetryl	241 > 181			5883.251									
XIBLK05	Nitrobenzene	123 > 46			5883.251									
XIBLK05	4-Amino-26-dinitrotoluene	197 > 167			40299.871									
XIBLK05	2-Amino-46-dinitrotoluene	197 > 180			40299.871									
XIBLK05	246-Trinitrotoluene	227 > 210			40299.871									
XIBLK05	34-dinitrotoluene	182 > 152			40299.871									
XIBLK05	26-dinitrotoluene	182 > 152			40299.871									
XIBLK05	24-dinitrotoluene	182 > 152			40299.871									
XIBLK05	26-dinitrotoluene-d3	185 > 155	17.42	40299.871		40299.871	40299.871	bb			585.2338	117.0	17.0	3824.0
XIBLK05	2-Nitrotoluene	137 > 46			40299.871									
XIBLK05	4-Nitrotoluene	137 > 46			40299.871									
XIBLK05	3-Nitrotoluene	137 > 46			40299.871									
XIBLK05	PETN	361 > 62			40299.871									

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 24-MAR-10 08:15

GEL Data File: EXP0323048a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	525.584
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	553.206
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323048a

Date: 24-Mar-2010

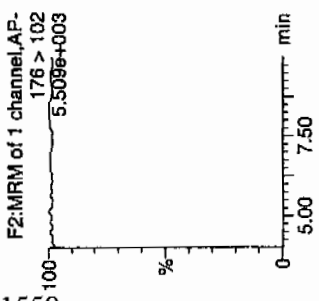
Time: 08:15:01

ID: XIBLK06

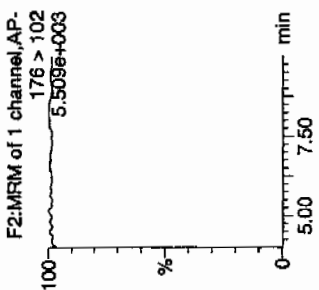
Vial: 1:1,A

100%
100%
100%

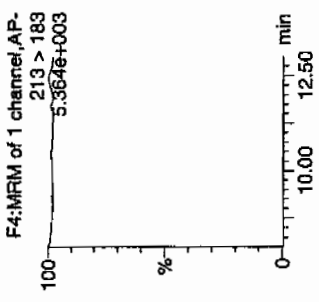
0-HMX



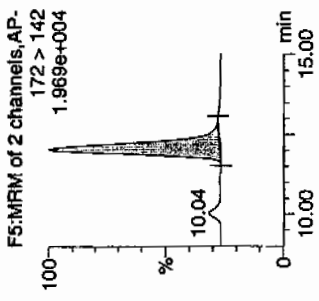
RDX



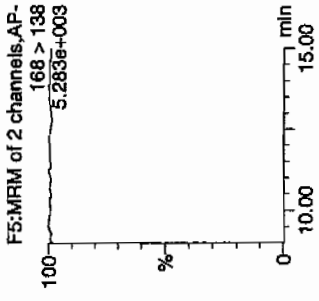
135-Trinitrobenzene



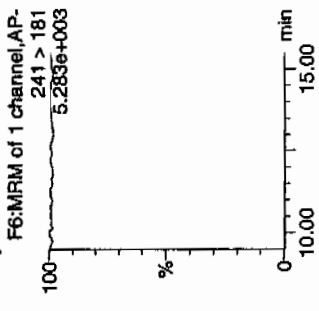
13-Dinitrobenzene-d4



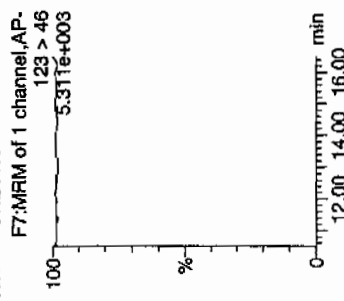
13-Dinitrobenzene



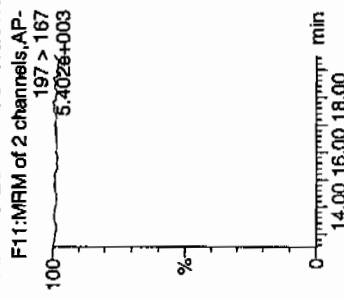
Tetryl



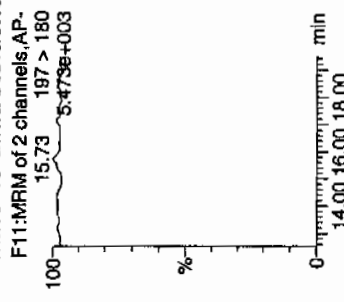
Nitrobenzene



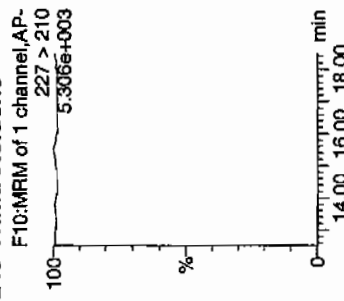
4-Amino-26-dinitrotoluene



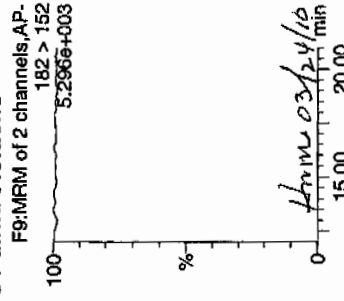
2-Amino-46-dinitrotoluene



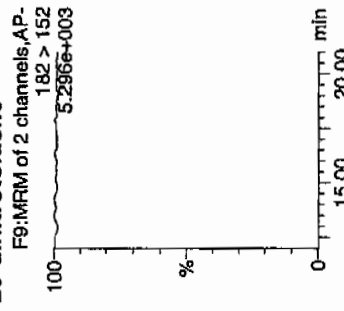
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene

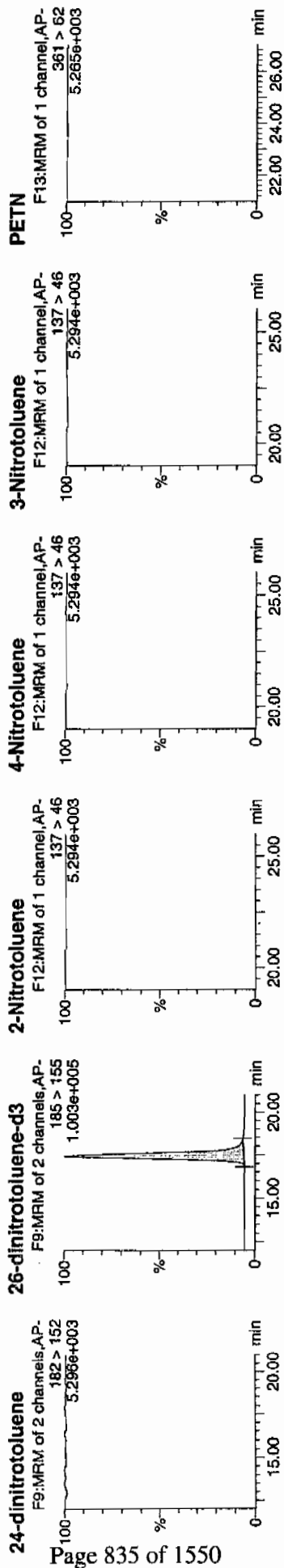


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 96 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Imp/mt	%Rec	%Dev	SN
XIBLK06	HMX	176 > 102			5785.916									
XIBLK06	RDX	176 > 102			5785.916									
XIBLK06	135-Trinitrobenzene	213 > 183			5785.916									
XIBLK06	13-Dinitrobenzene-d4	172 > 142	12.03	5785.916										
XIBLK06	13-Dinitrobenzene	168 > 138												
XIBLK06	Tetryl	241 > 181												
XIBLK06	Nitrobenzene	123 > 46												
XIBLK06	4-Amino-26-dinitrotoluene	197 > 167												
XIBLK06	2-Amino-46-dinitrotoluene	197 > 180												
XIBLK06	246-Trinitrotoluene	227 > 210												
XIBLK06	34-dinitrotoluene	182 > 152												
XIBLK06	26-dinitrotoluene	182 > 152												
XIBLK06	24-dinitrotoluene	182 > 152												
XIBLK06	26-dinitrotoluene-d3	185 > 155	17.41	38094.418										
XIBLK06	2-Nitrotoluene	137 > 46			38094.418									
XIBLK06	4-Nitrotoluene	137 > 46			38094.418									
XIBLK06	3-Nitrotoluene	137 > 46			38094.418									
XIBLK06	PETN	361 > 62												
						5785.916	5785.916	bb			525.5841	105.1	5.1	741.5
						38094.418	38094.418	bb			553.2063	110.6	10.6	4007.9

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 01-MAR-10 11:24

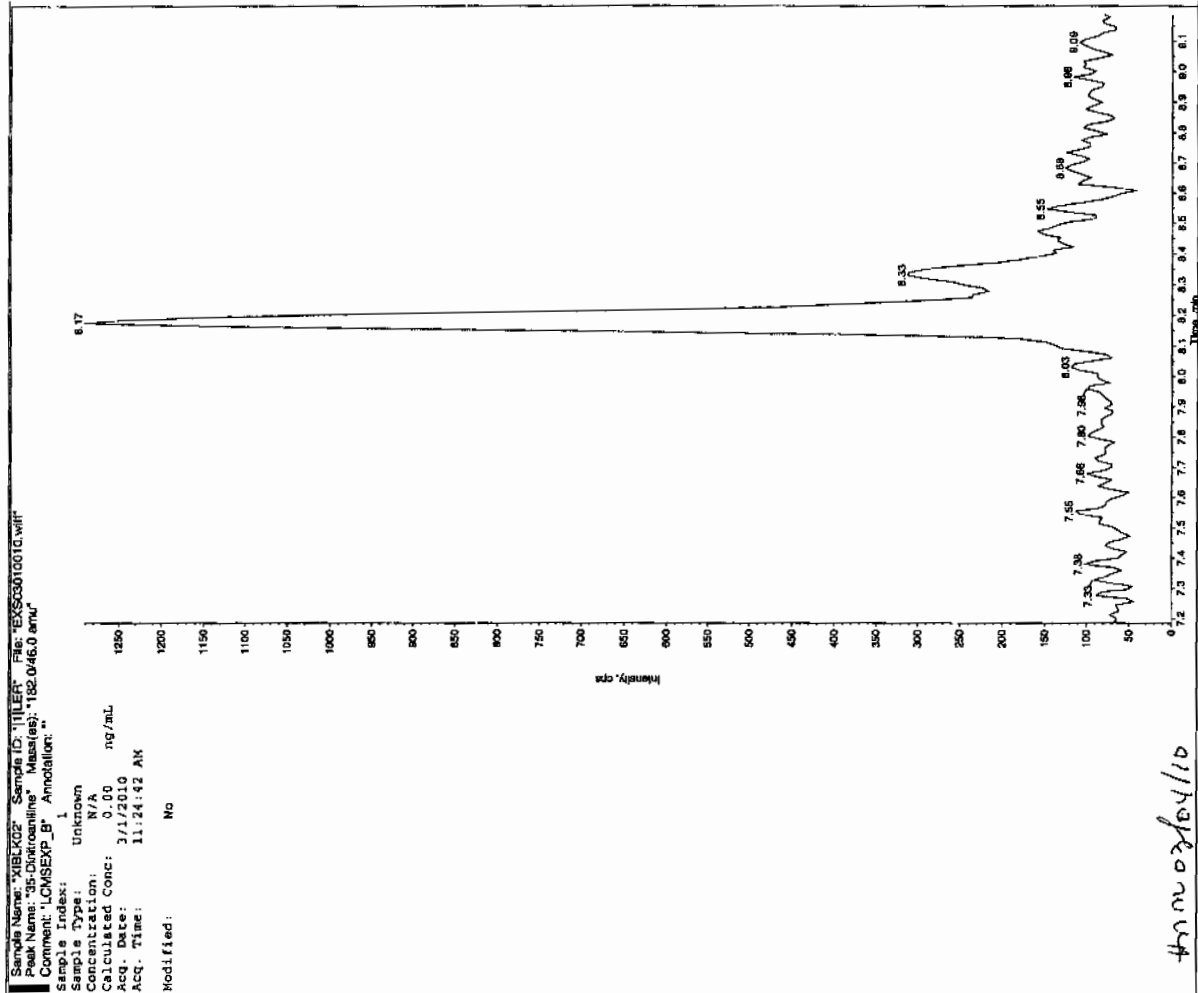
GEL Data File: EXS03010010.wiff

Instrument ID: LCMSMS

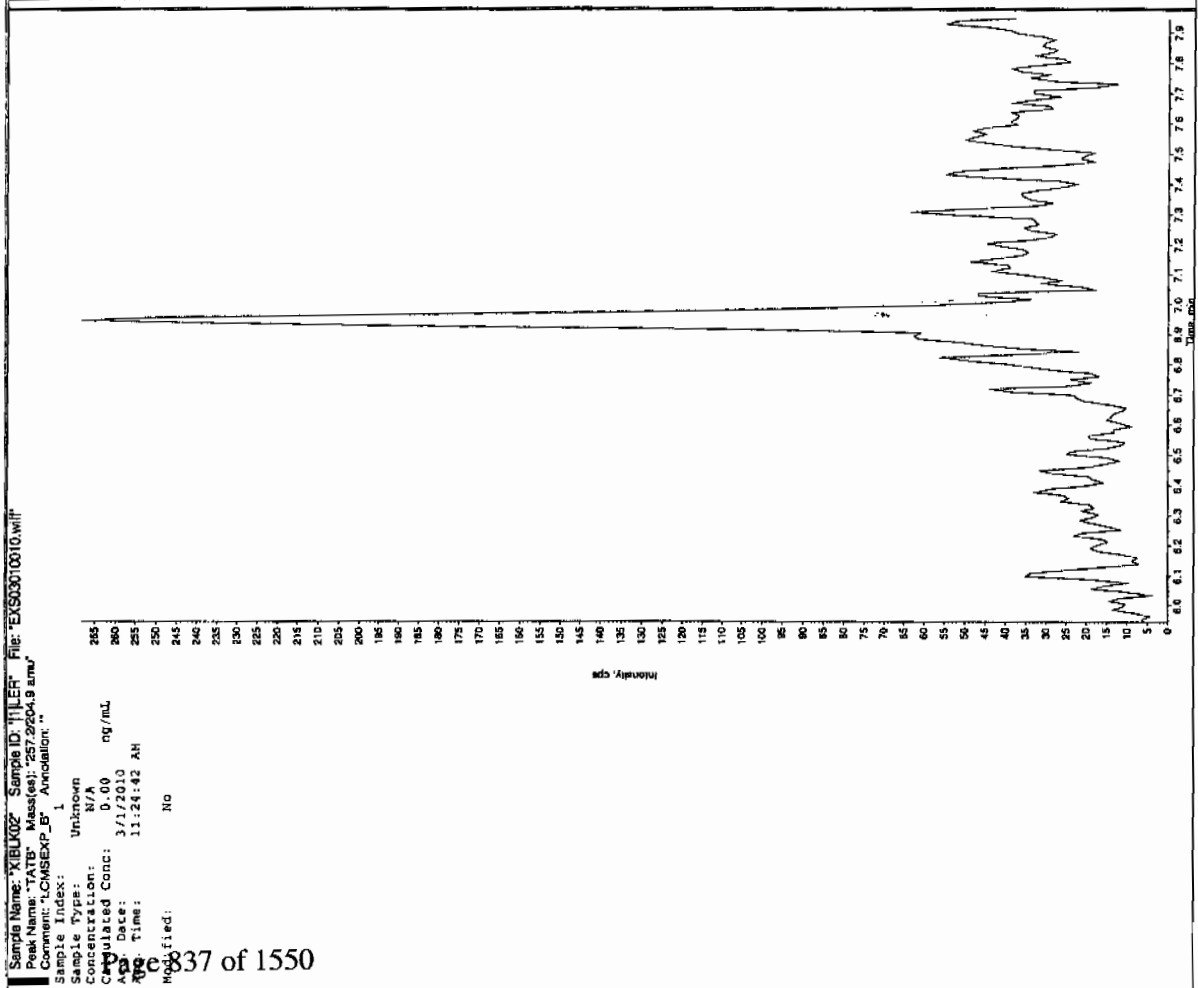
Column: Phenomenex Ultracarb 5u QDS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	2.74
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

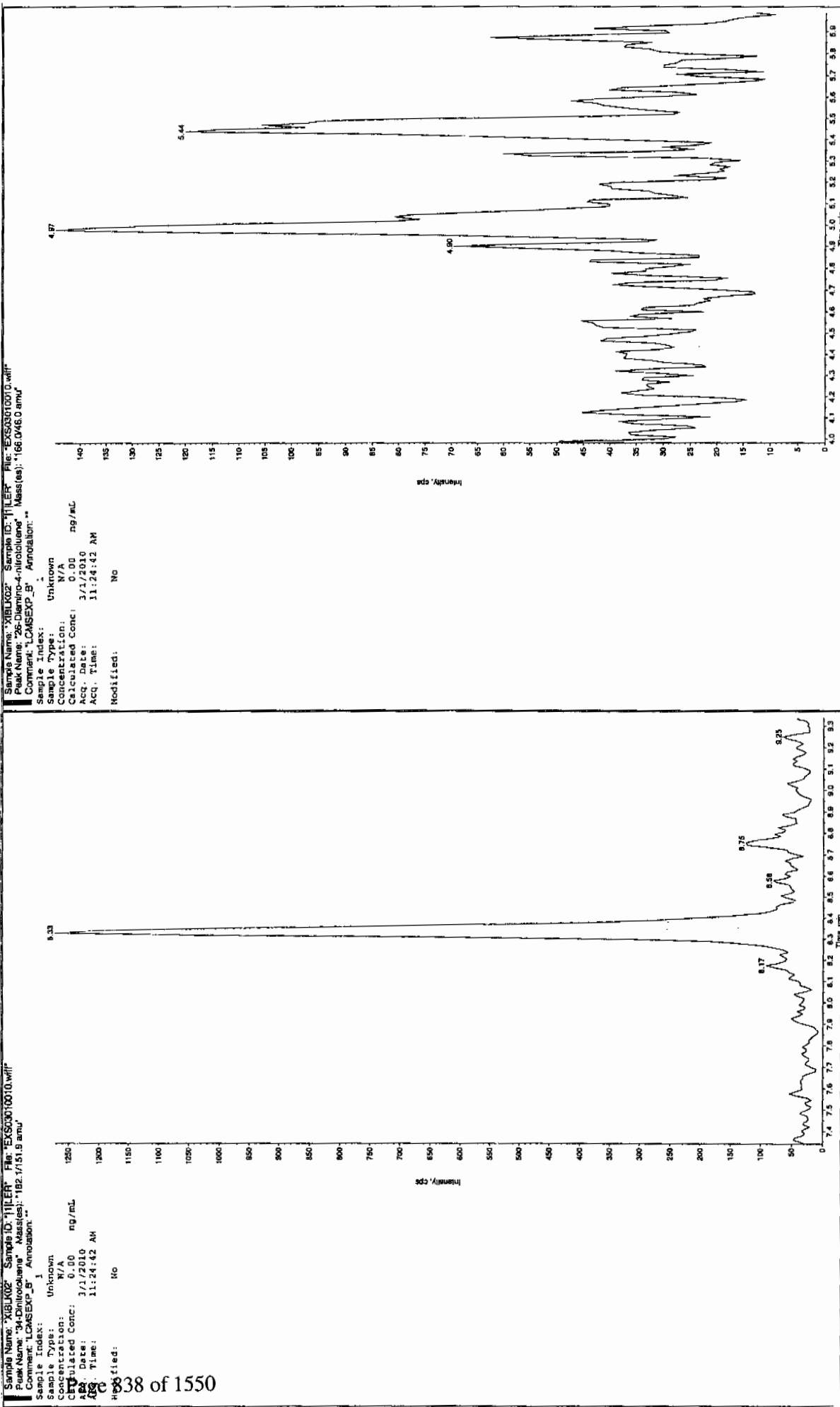
den 3/3/10



4/20/04/10



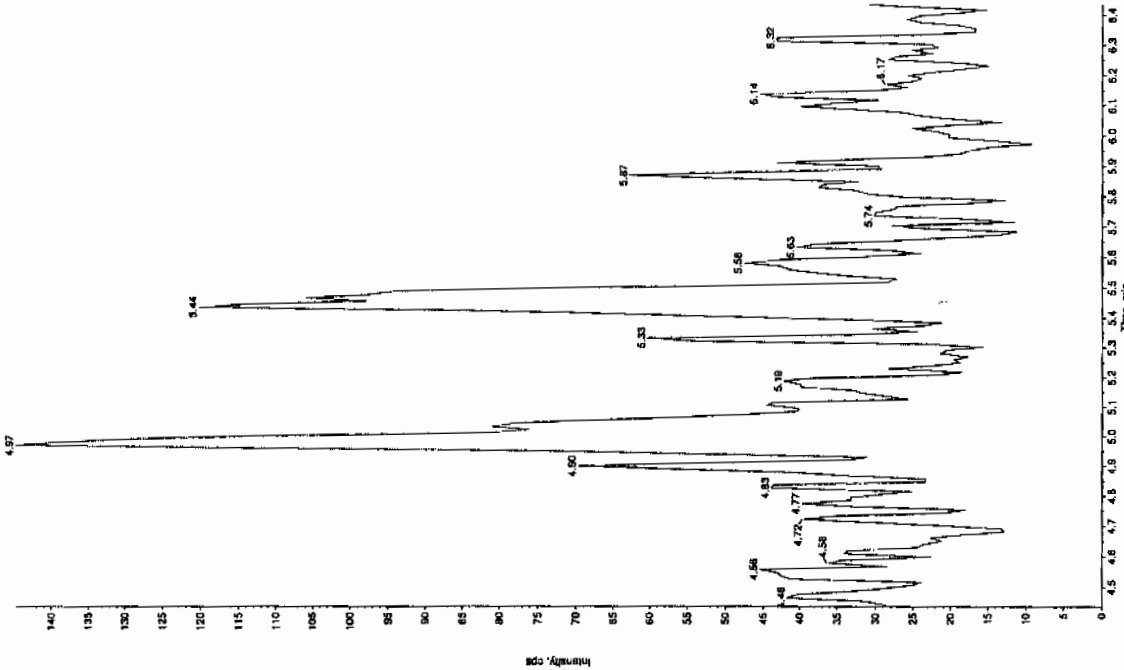
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

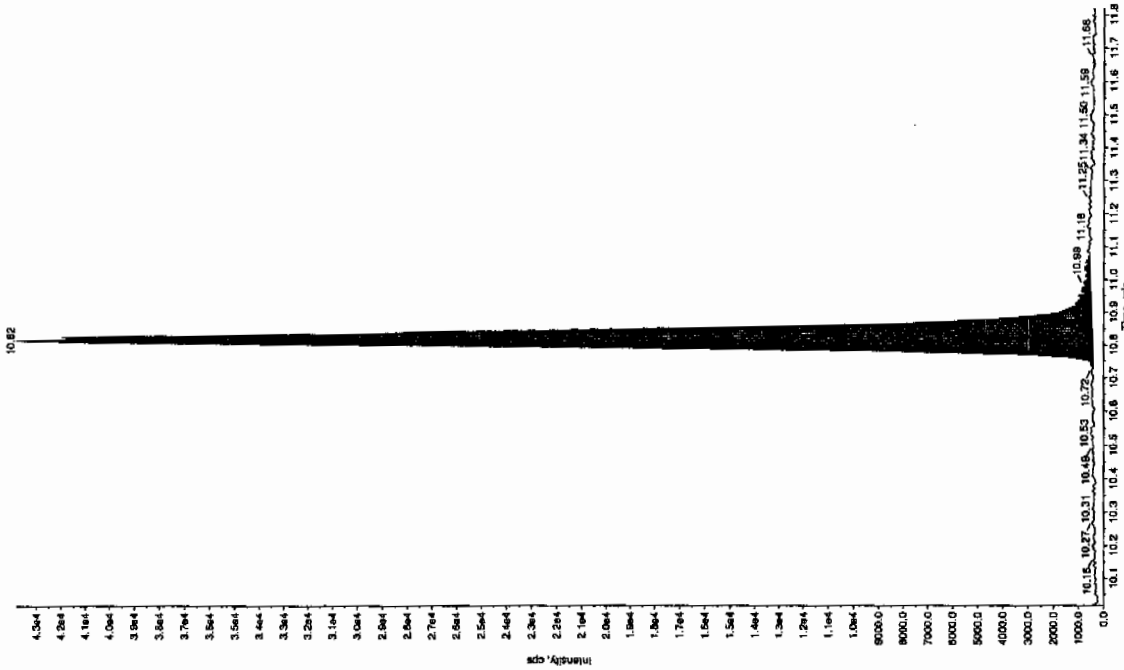
Sample Name: "XBLK02" Sample ID: "11LER" File: "EXS03010010.wif"
 Peak Name: "24-Diamino-6-nitrobenzene" Mass(es): "166.046.0 amu"
 Comment: "LCMEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 11:24:42 AM
 Modified: No



Sample Name: "XBLK02" Sample ID: "11LER" File: "EXS03010010.wif"
 Peak Name: "tris(p-cresyl) phosphite" Mass(es): "359.191.0 amu"
 Comment: "LCMEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 2.74 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 11:24:42 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - ION
 Min. Peak Height: 800.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 1.55e+005 counts
 Height: 43378.235 cps
 Start Time: 10.7 min
 End Time: 11.1 min



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 01-MAR-10 11:56

GEL Data File: EXS03010012.wiff

Instrument ID: LCMSMS

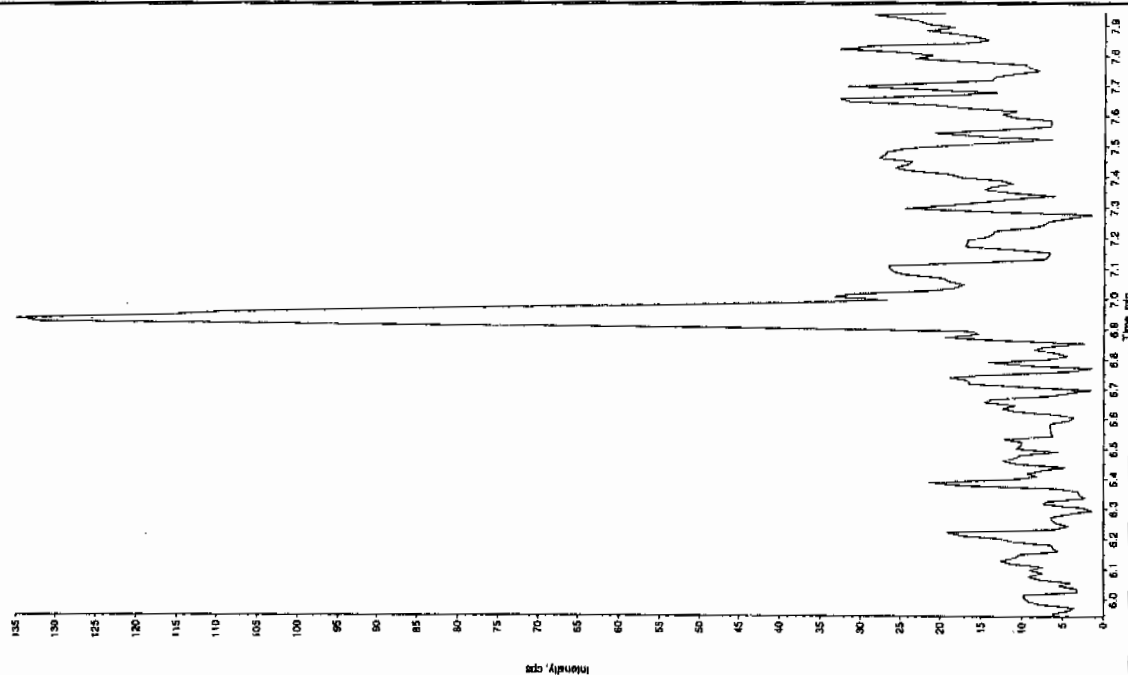
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

See 3/3/10

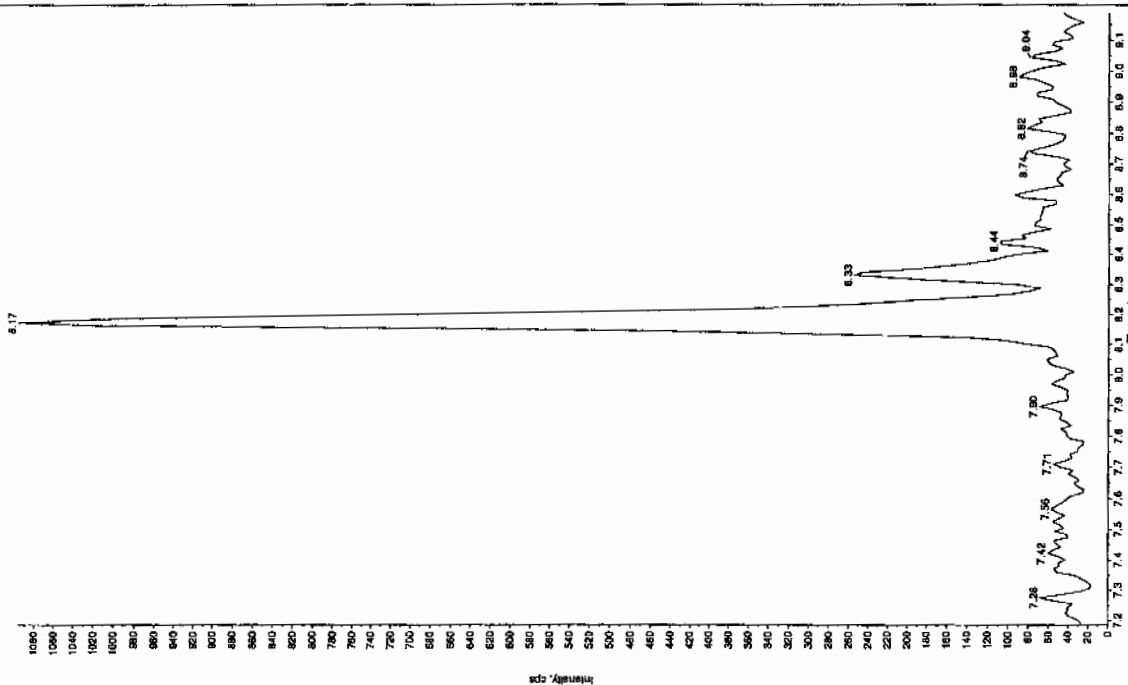
Sample Name: "XBLK03" Sample ID: "HLLER" File: "EXS03010012.wif"
 Peak Name: "TATP" Mass(es): "257.2224.9 amu"
 Comment: "LCMSEXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Date: 3/1/2010
 Acq. Time: 11:56:08 AM
 Modified: No

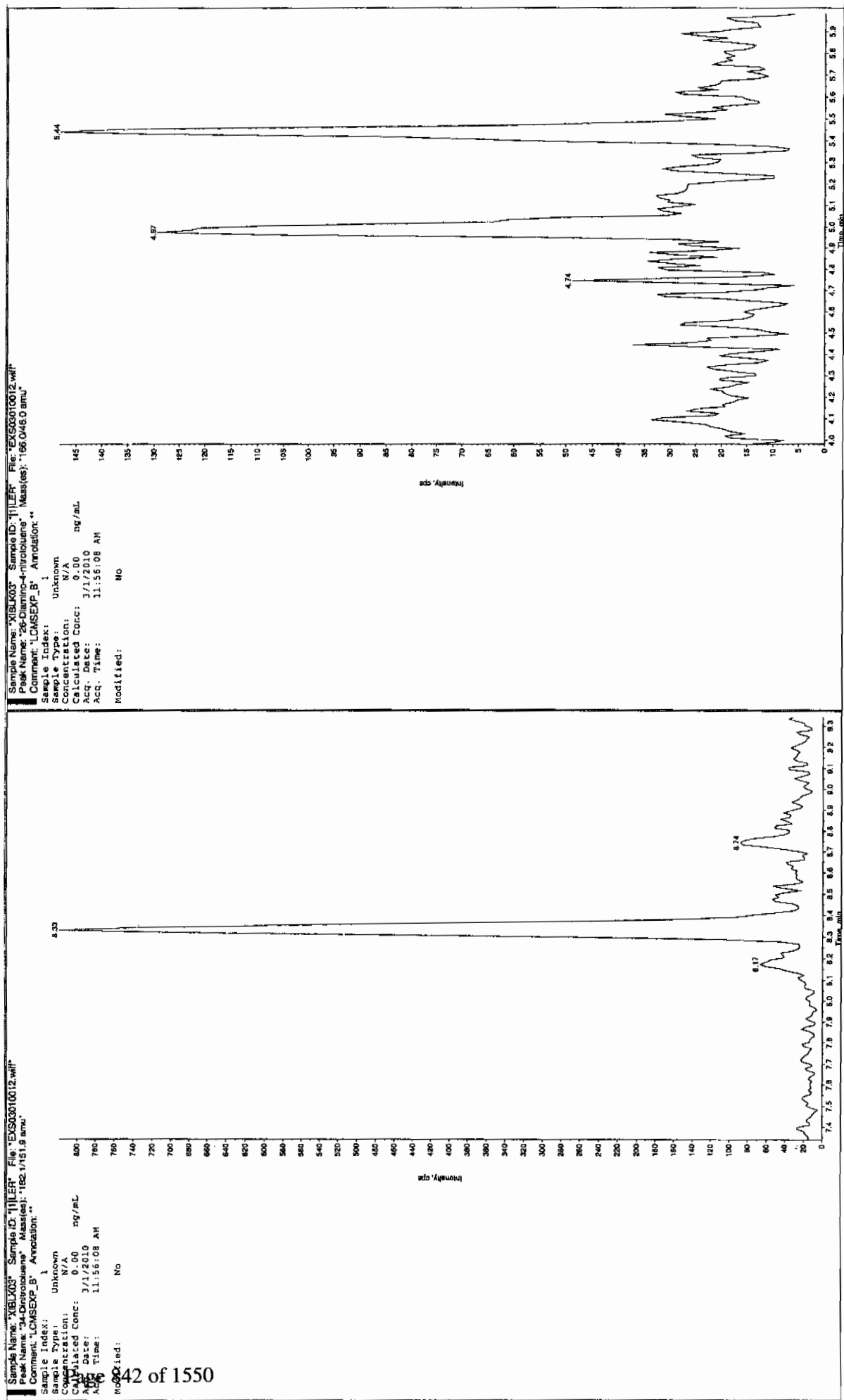


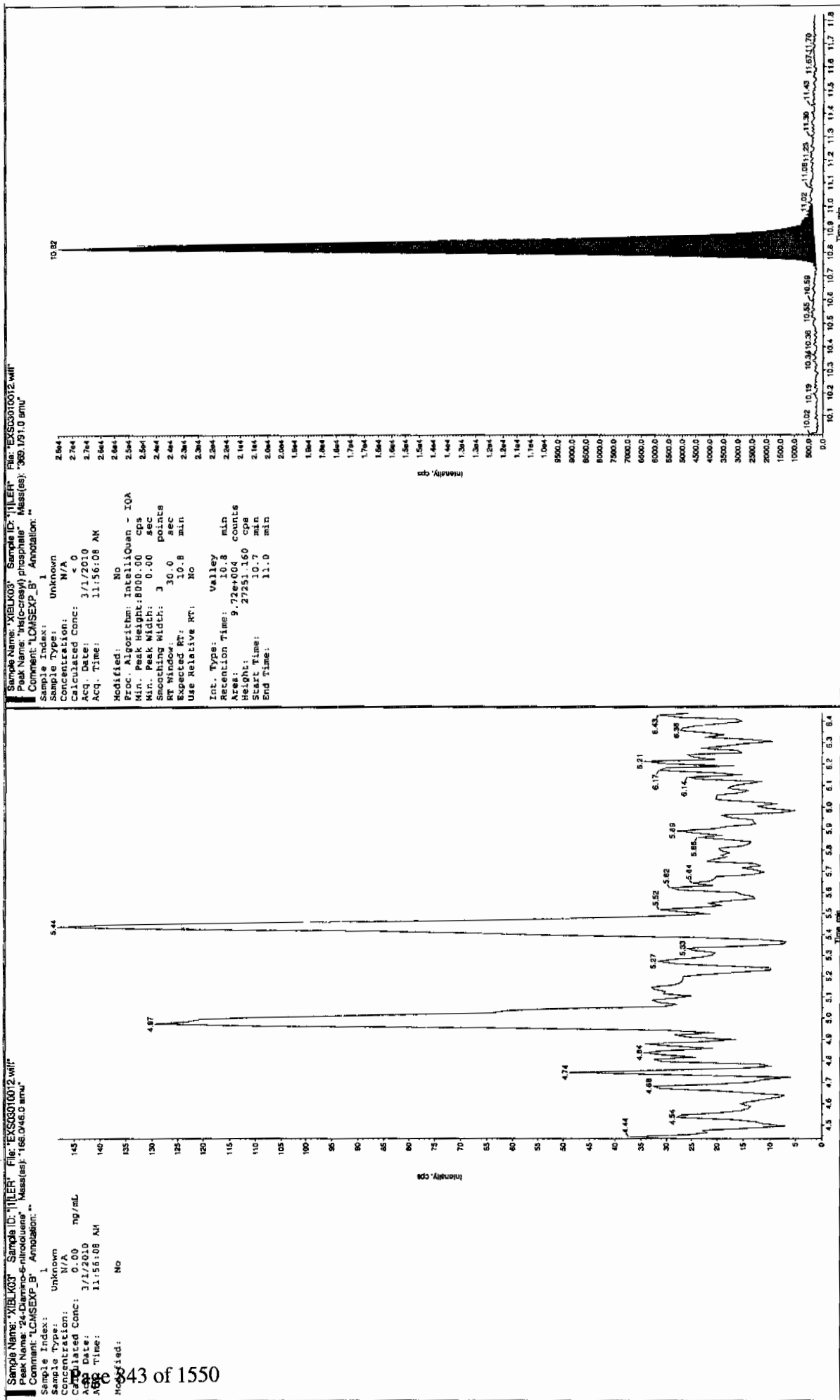
Sample Name: "XBLK03" Sample ID: "HLLER" File: "EXS03010012.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.0450 amu"
 Comment: "LCMSEXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Date: 3/1/2010
 Acq. Time: 11:56:08 AM
 Modified: No



See 03/04/10





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCM SMS#4

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 01-MAR-10 15:20

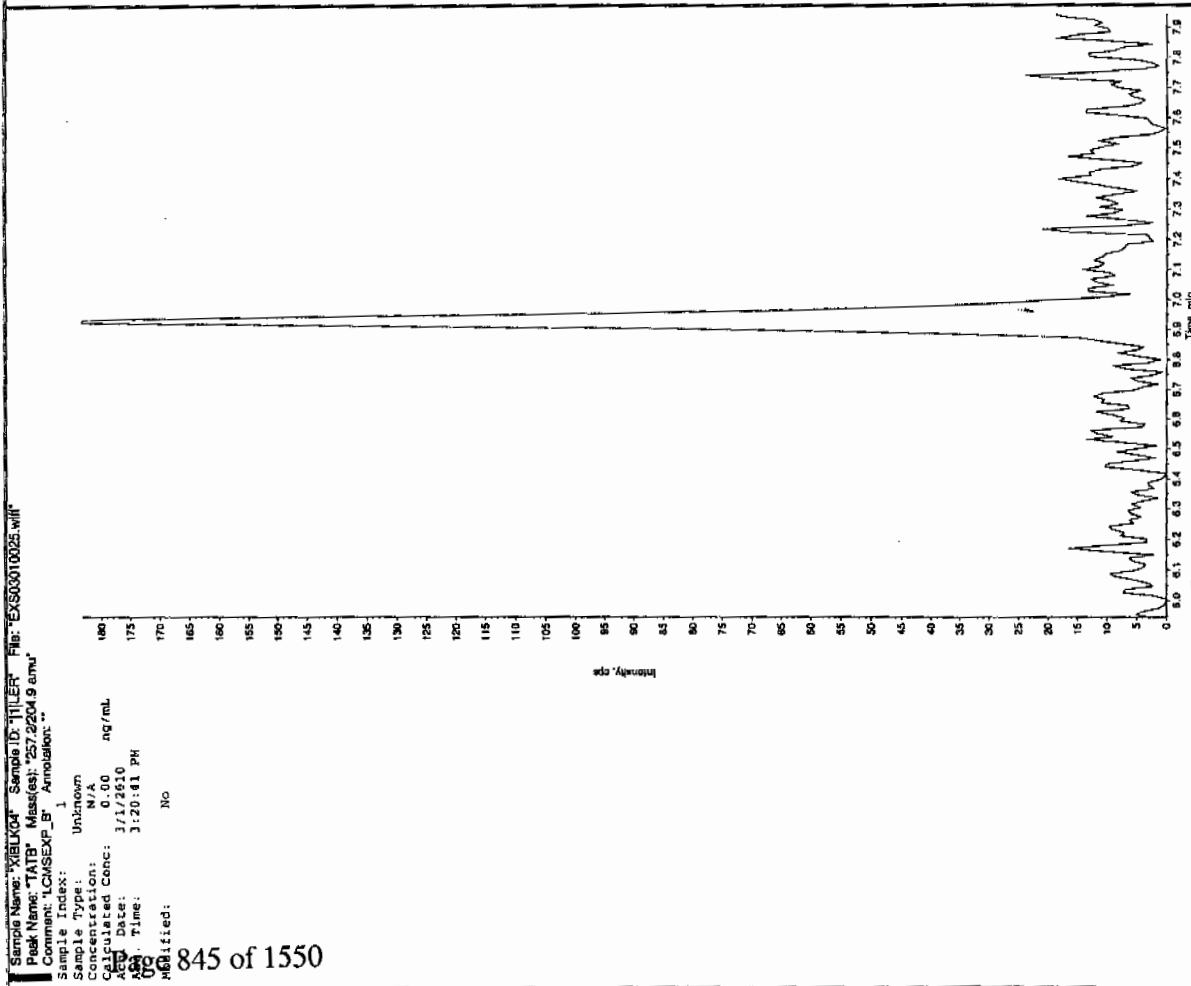
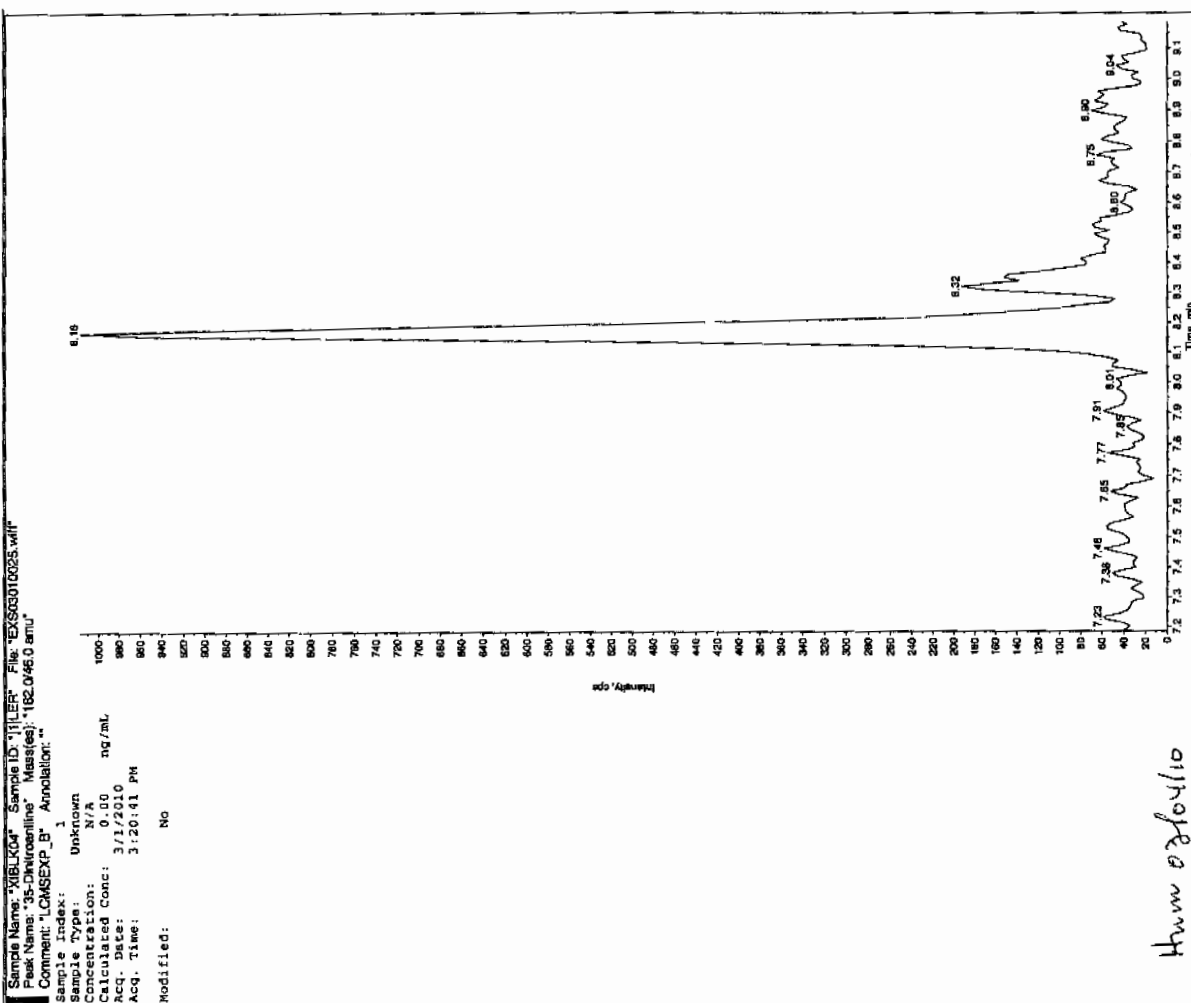
GEL Data File: EXS03010025.wiff

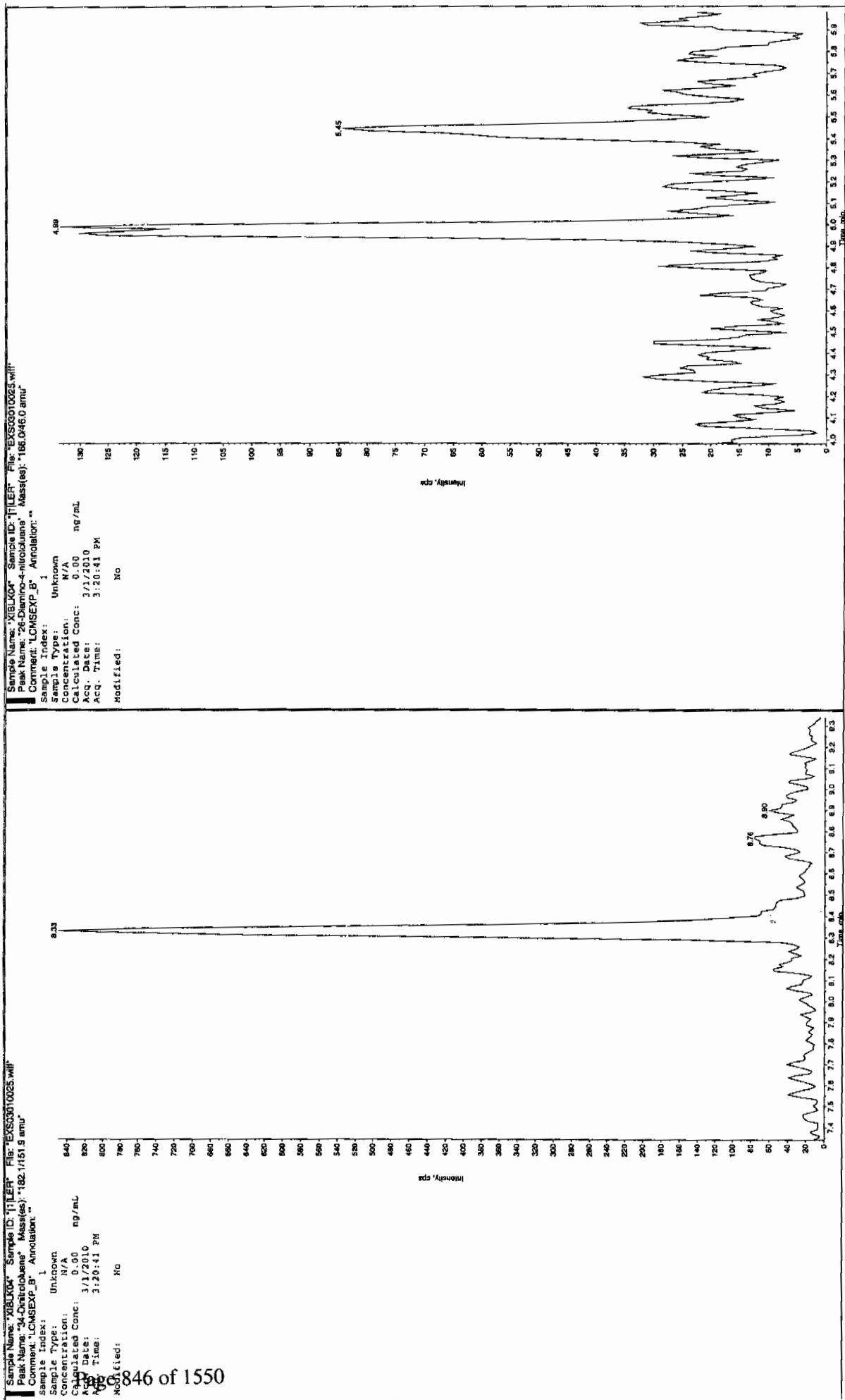
Instrument ID: LCMSMS

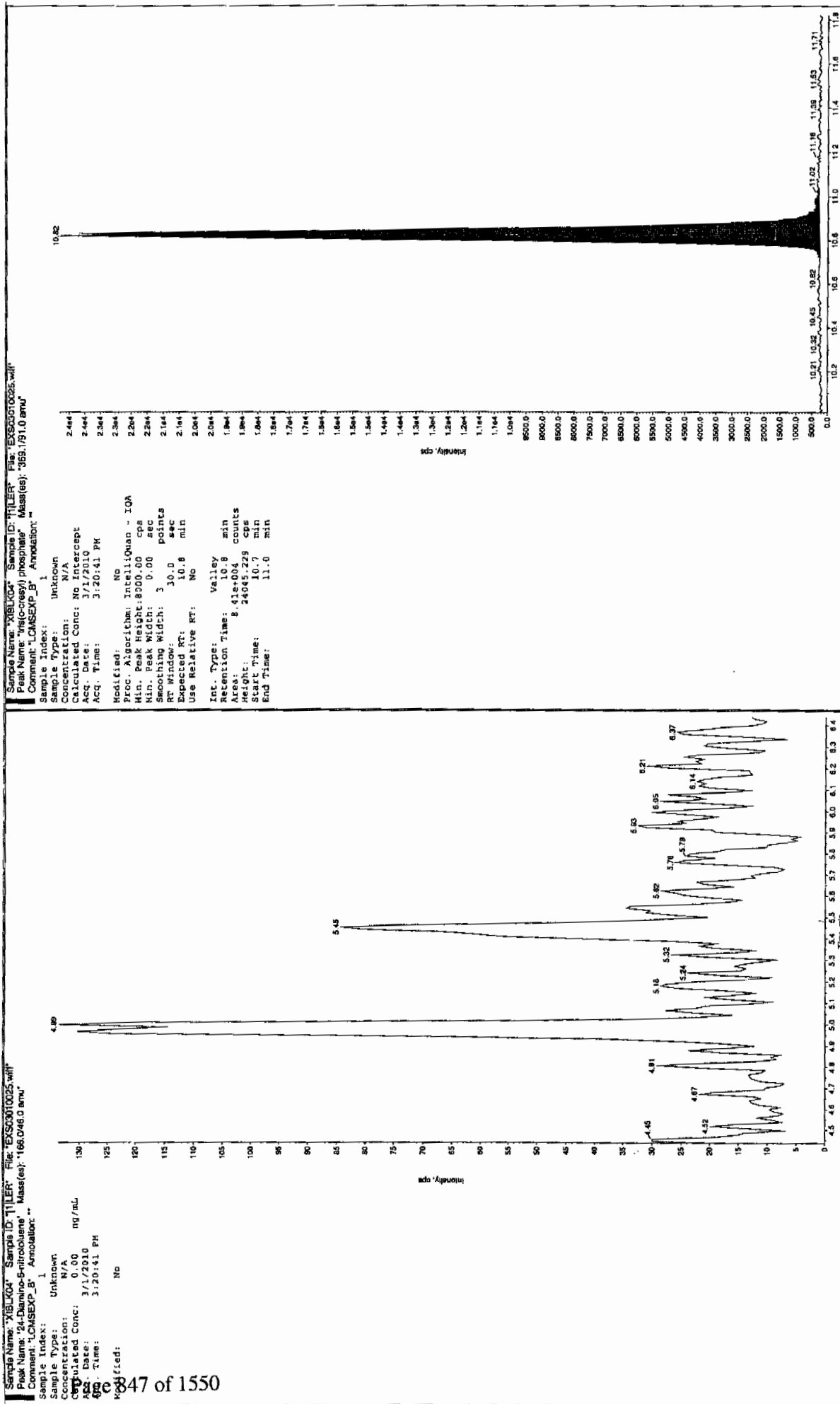
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

for 3/13/10







4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 01-MAR-10 16:55

GEL Data File: EXS03010031.wiff

Instrument ID: LCMSMS

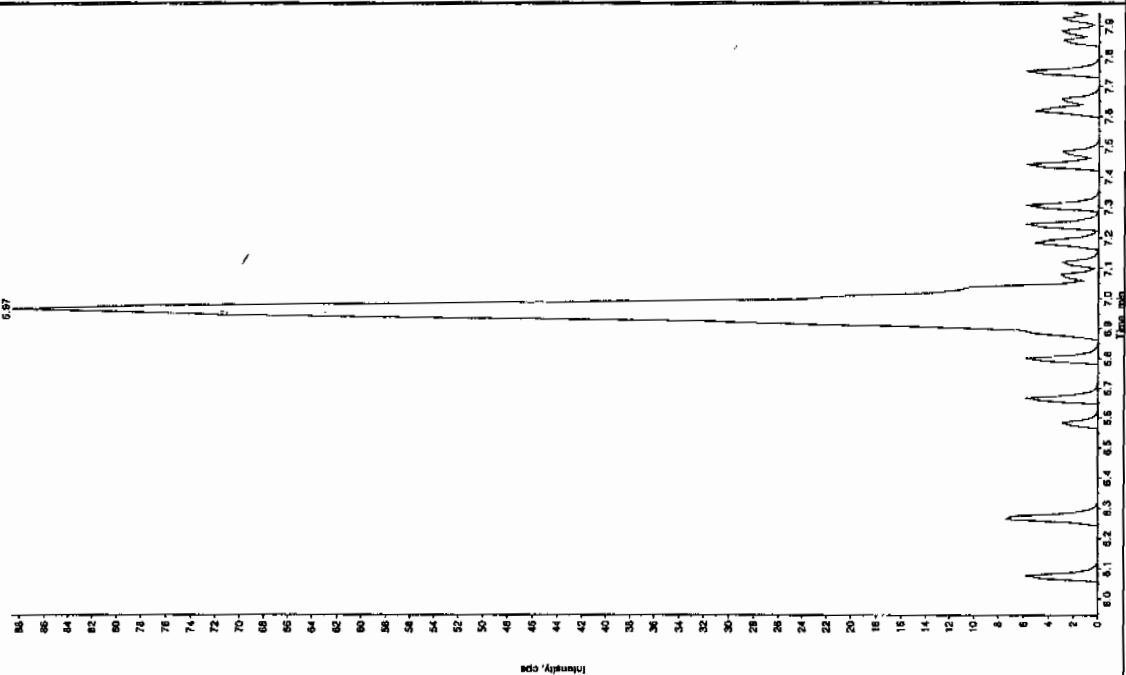
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 3/3/10

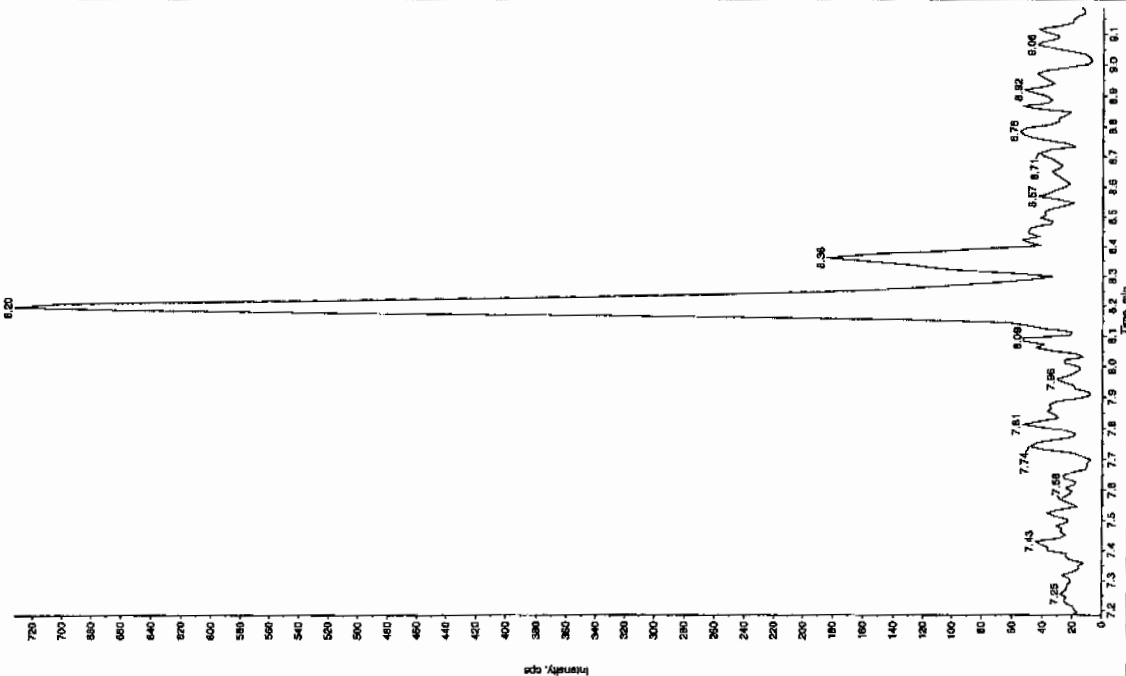
Sample Name: "XIBUK05" Sample ID: "111ER" File: "EXS03010031.wif"
 Peak Name: "Trib" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.80 ng/mL
 Calculated Conc: 3/13/2010
 Acq. Date: 8:55:04 PM
 Acq. Time: 8:55:04 PM
 Modified: No

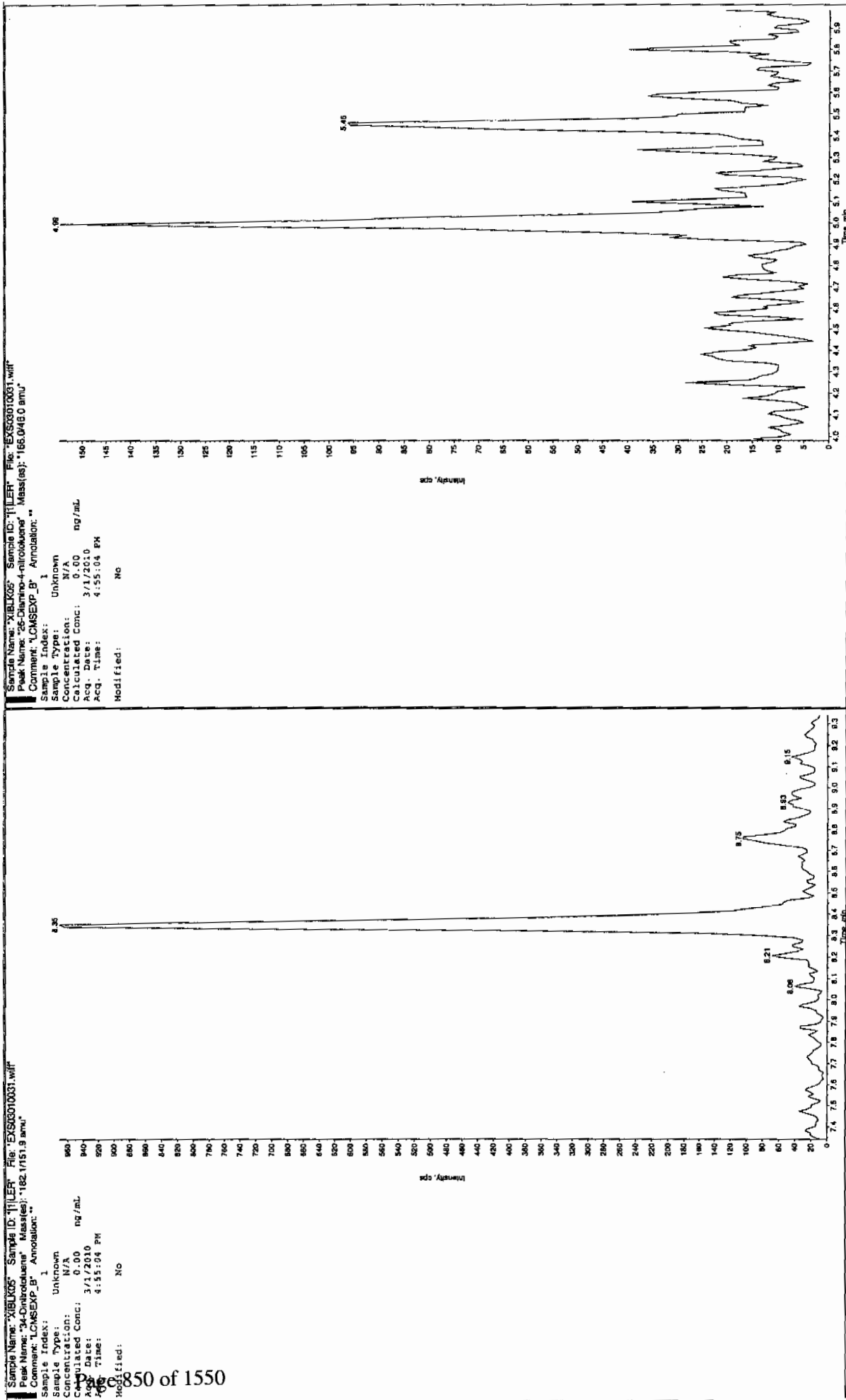


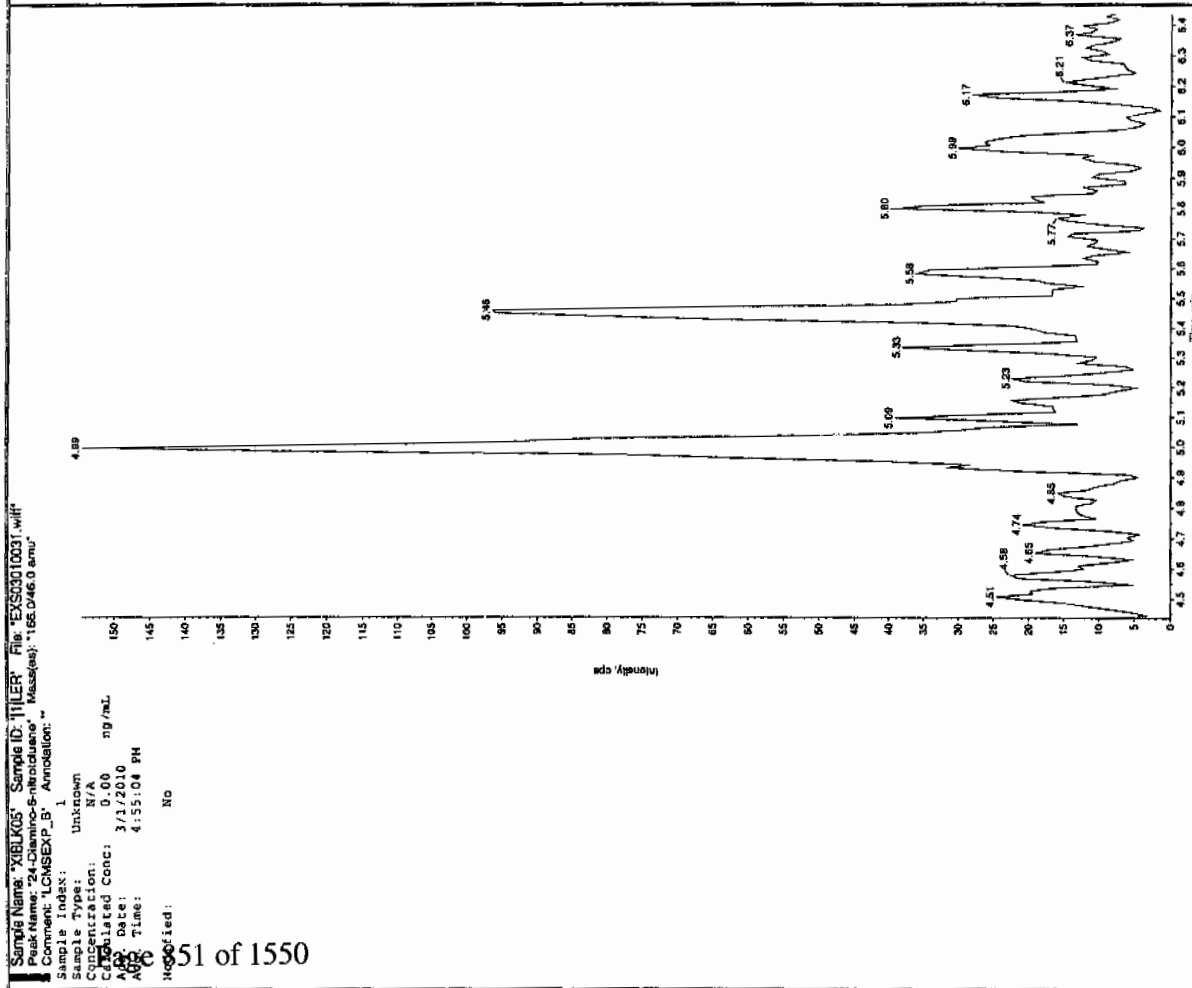
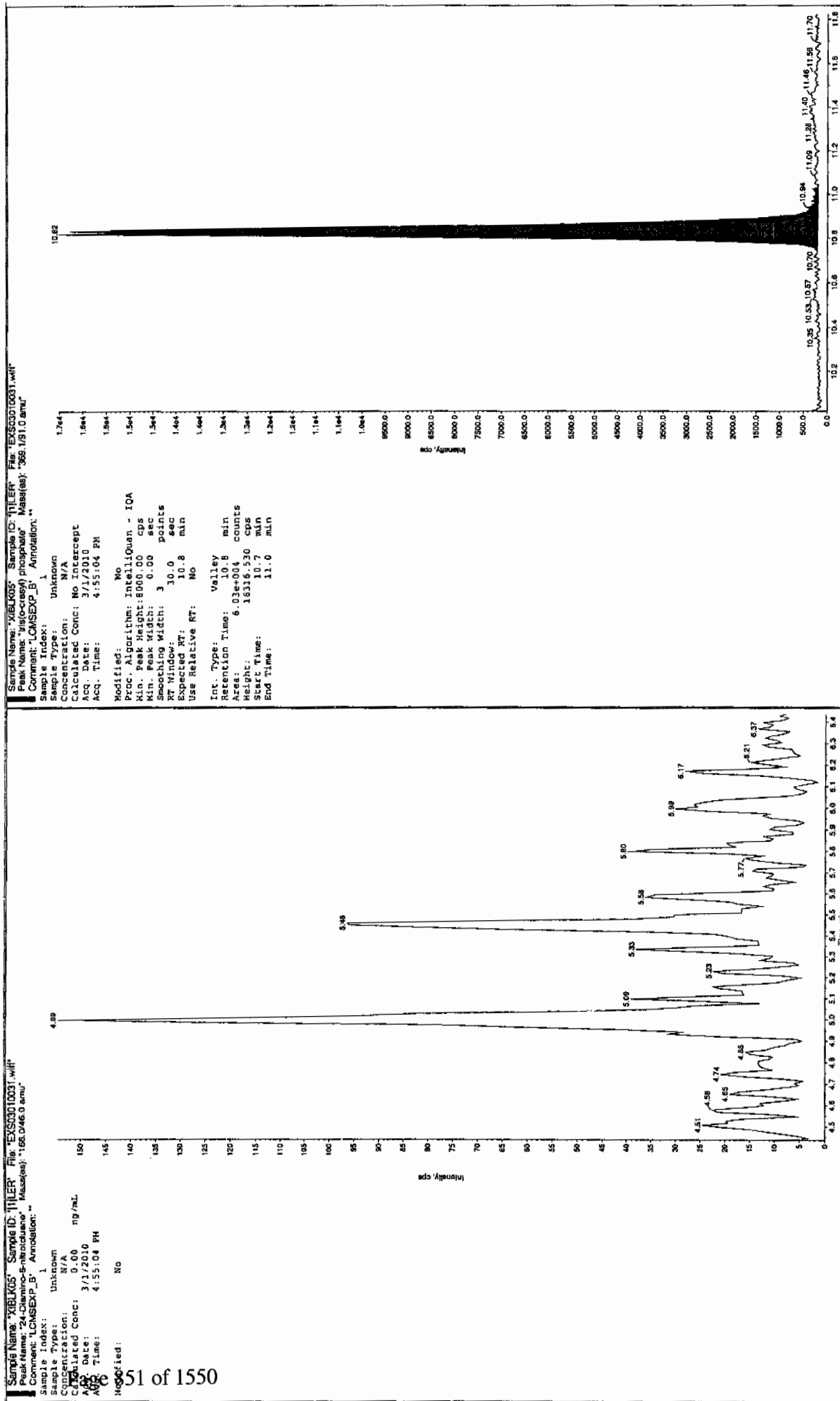
Sample Name: "XIBUK05" Sample ID: "111ER" File: "EXS03010031.wif"
 Peak Name: "35-Dinitroanthracene" Mass(es): "192.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/12/2010
 Acq. Date: 4:55:04 PM
 Acq. Time: 4:55:04 PM
 Modified: No



Jan 03/04/10





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 01-MAR-10 18:45

GEL Data File: EXS03010038.wiff

Instrument ID: LCMSMS

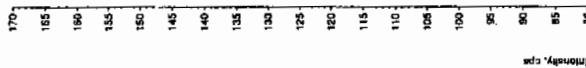
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

for 3/3/10

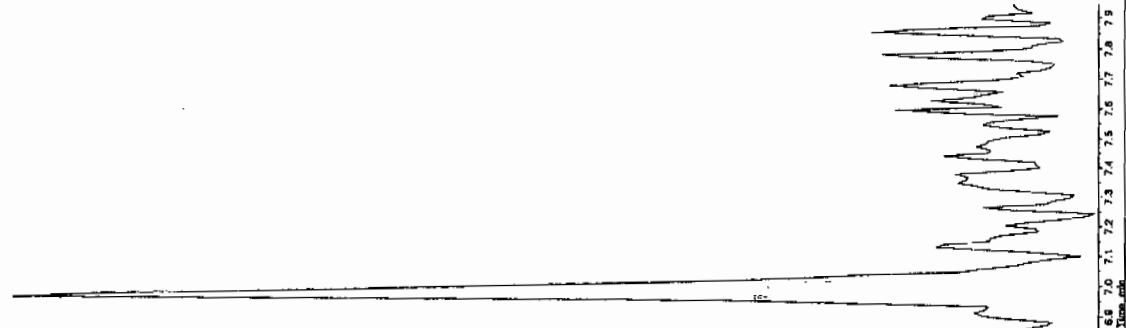
Sample Name: "XIBLK06" Sample ID: "TILER" File: "EXS03010038.wif"
 Peak Name: "TATB" Mass(es): "257.22049 amu"
 Comment: "LCMSEXP_B" Annotation: ""

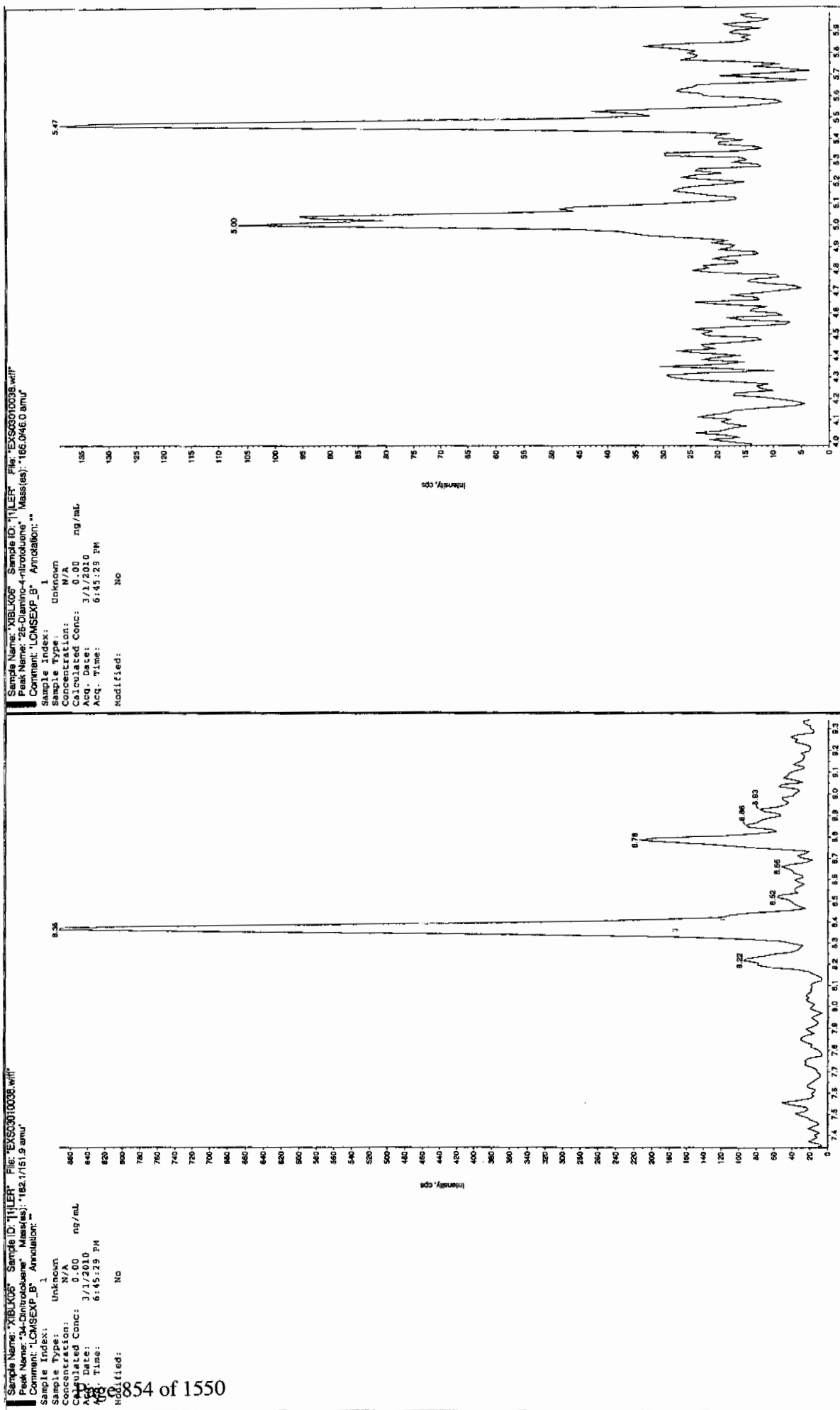
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 6:45:23 PM
 Modified: No



Sample Name: "XIBLK06" Sample ID: "TILER" File: "EXS03010038.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

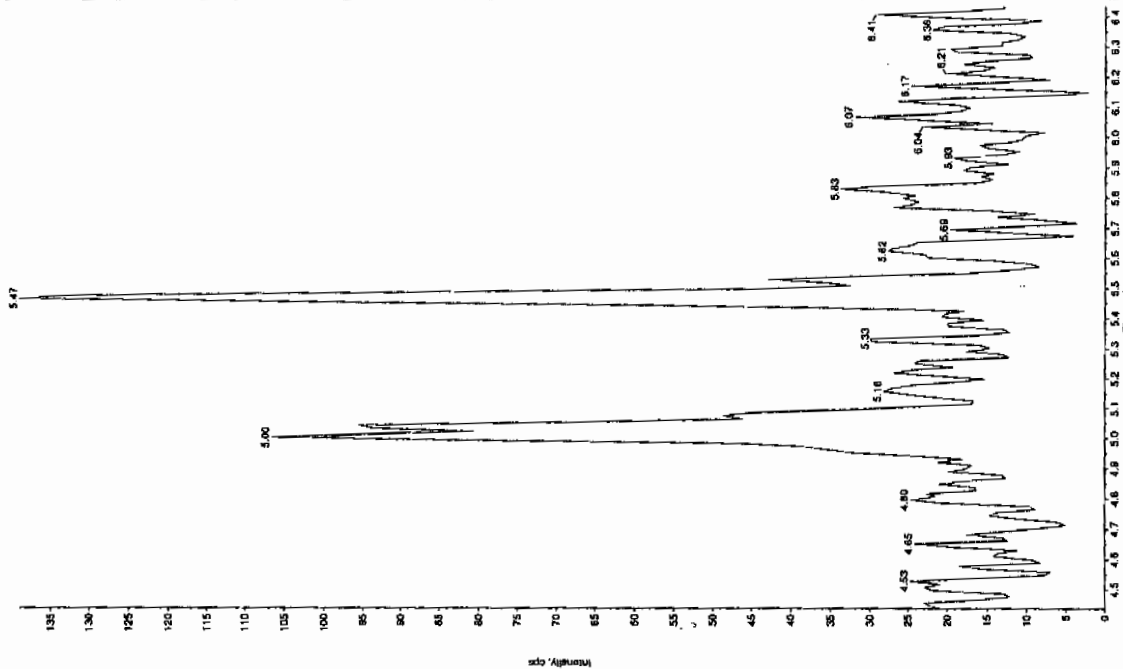
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 6:45:23 PM
 Modified: No





Sample Name: "XIBLK06" Sample ID: "11LER" File: "EXS03010038.wif"
 Peak Name: "24-Diamino-5-nitrofluorene" Mass(es): "156.0/46.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 9/A ng/mL
 Calculated Conc: 0.00
 Acq. Date: 3/1/2010
 Acq. Time: 6:43:29 PM
 Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 01-MAR-10 22:10

GEL Data File: EXS03010051.wiff

Instrument ID: LCMSMS

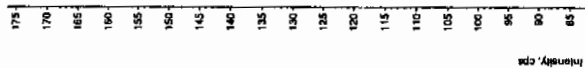
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

for 3/3/10

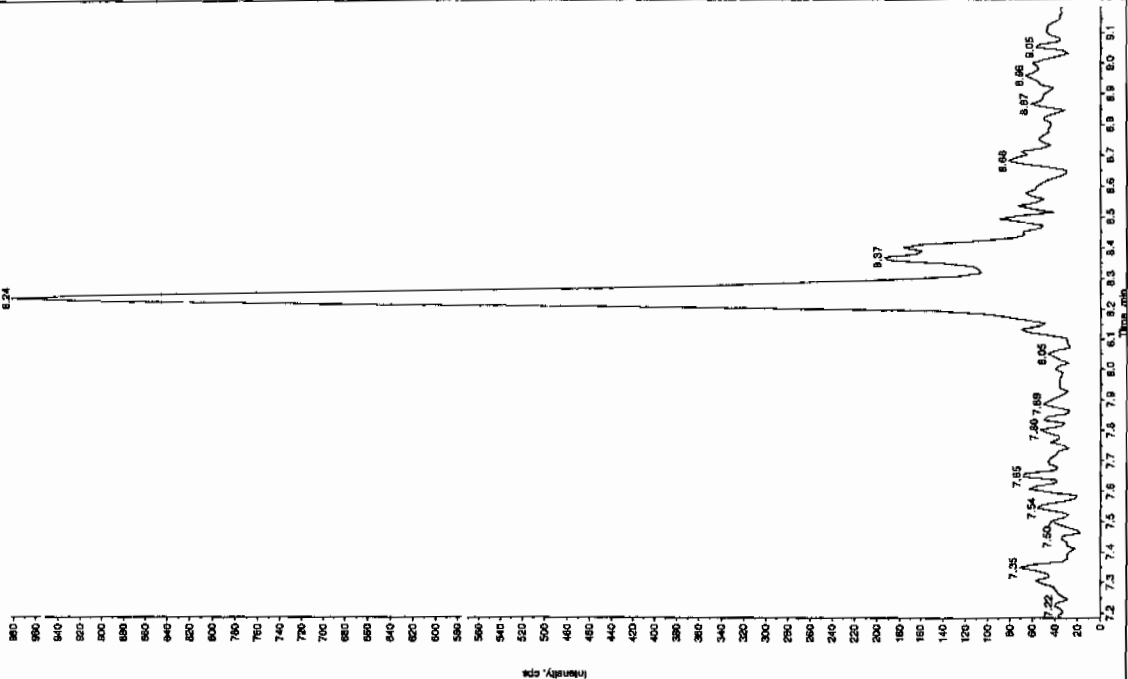
Sample Name: "XIBL007" Sample ID: "11111" File: "EXS03010051.wiff"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 10:10:00 PM
 Modified: No



Sample Name: "XIBL007" Sample ID: "11111" File: "EXS03010051.wiff"
 Peak Name: "35-Dinitrocellulose" Mass(es): "182.046.0 amu"
 Comment: "LCMSXP_B" Annotation: ""

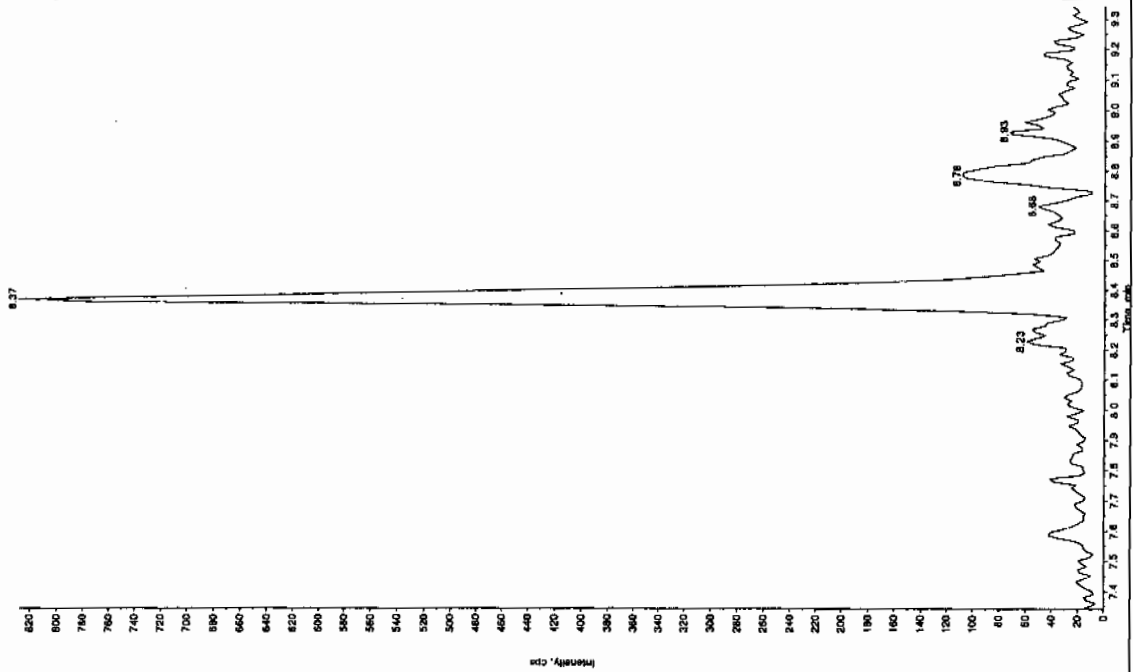
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 10:10:00 PM
 Modified: No



for 03/04/10

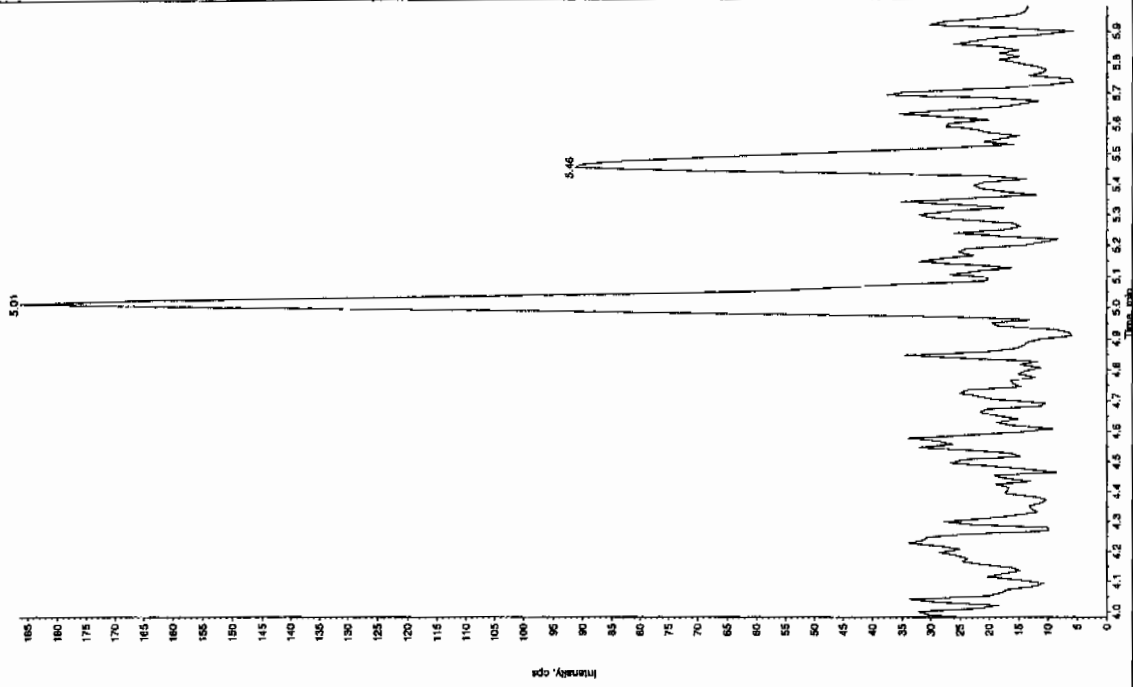
Sample Name: "XBLK07" Sample ID: "J1LER" File: "EX503010051.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.17519 amu"
 Comment: "LCMSEXP_B" Annotation: ""

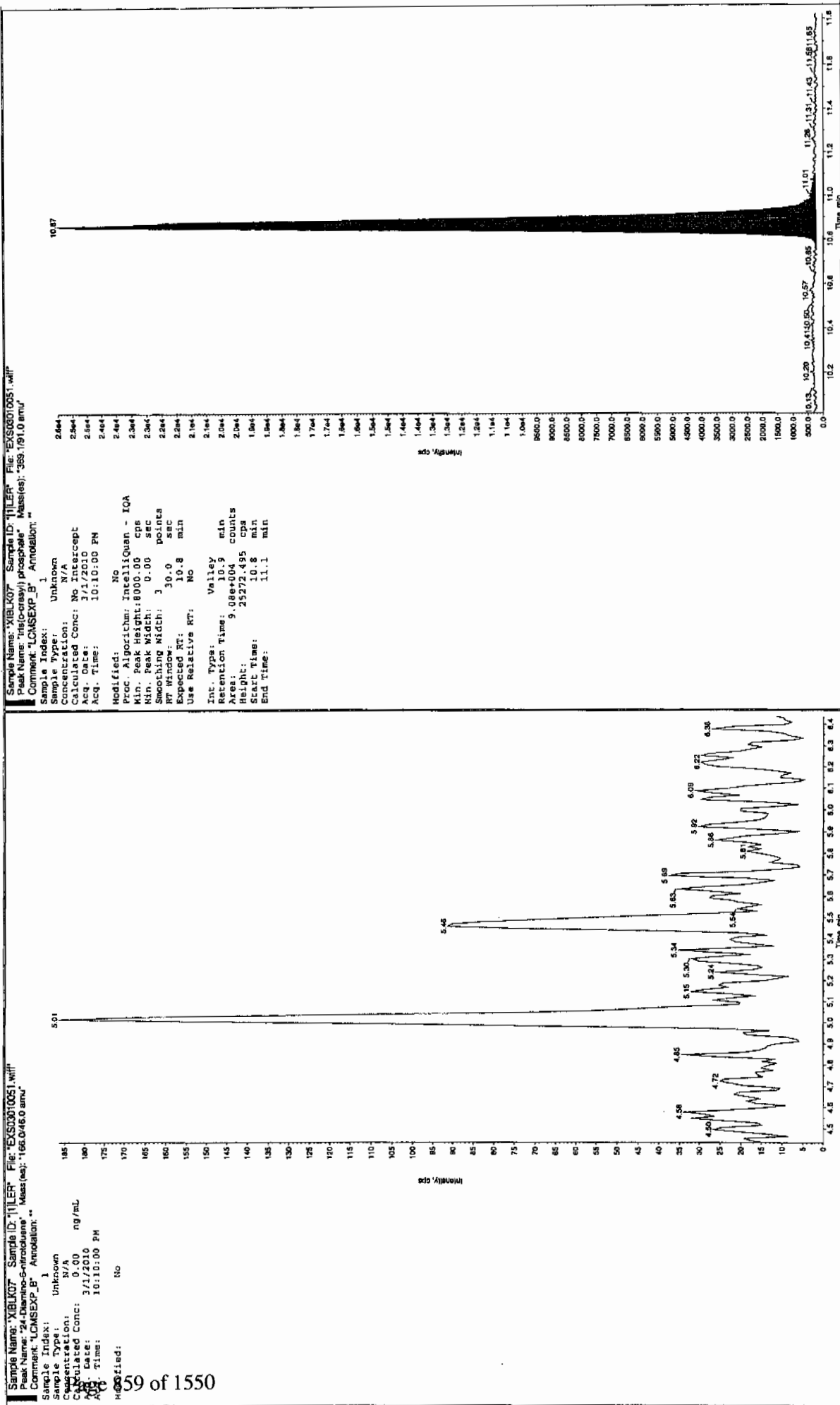
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 10:10:00 PM
 Modified: No



Sample Name: "XBLK07" Sample ID: "J1LER" File: "EX503010051.wif"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.04650 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 10:10:00 PM
 Modified: No





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 02-MAR-10 01:34

GEL Data File: EXS03010064.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Run 313110

Sample Name: "XBLK09" Sample ID: "111ER" File: "EXS03010064.wif"

Peak Name: "TATE" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

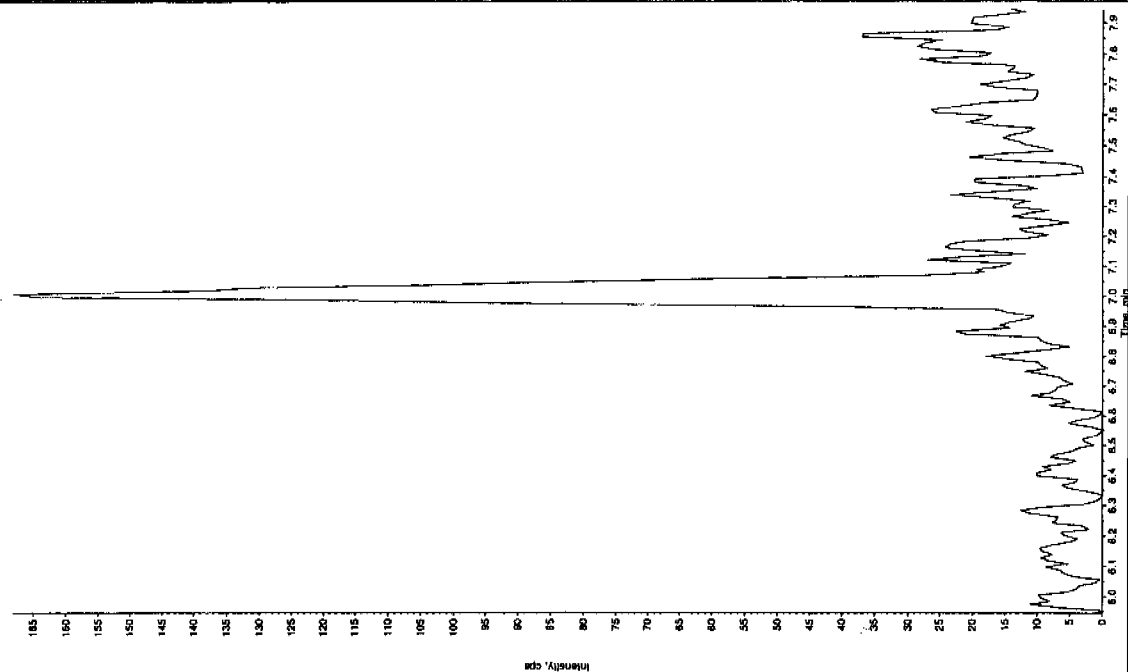
Concentration: 0.00 ng/mL

Calculated Conc: 0.00

Acq. Date: 3/2/2010

Acq. Time: 1:34:36 AM

Modified: No



Sample Name: "XBLK09" Sample ID: "111ER" File: "EXS03010064.wif"

Peak Name: "3S-Dinitroaniline" Mass(es): "182.0460 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

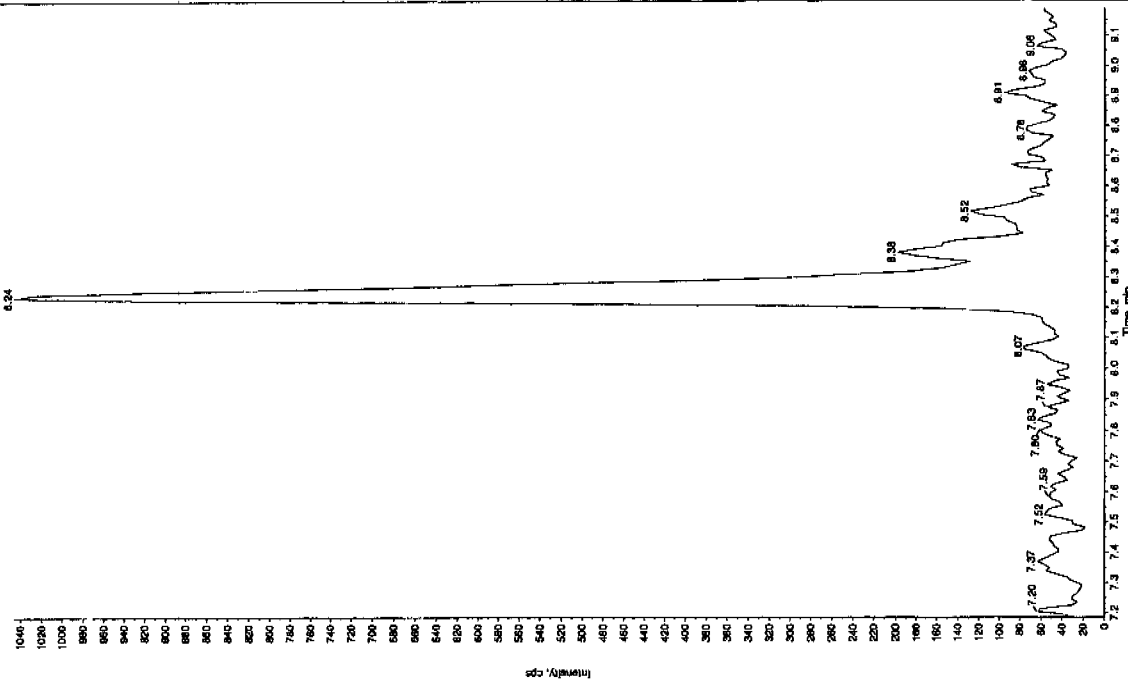
Concentration: 0.00 ng/mL

Calculated Conc: 0.00

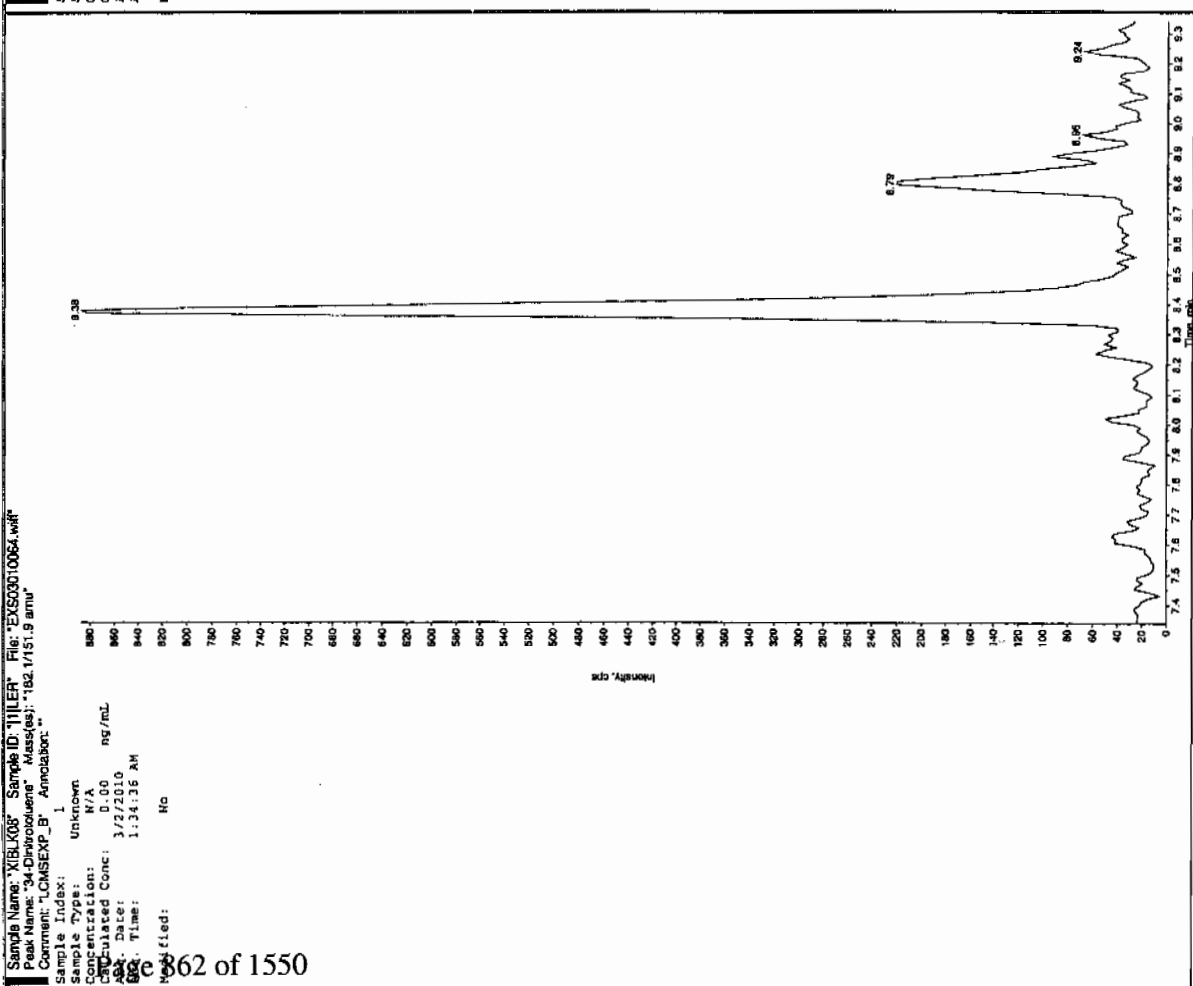
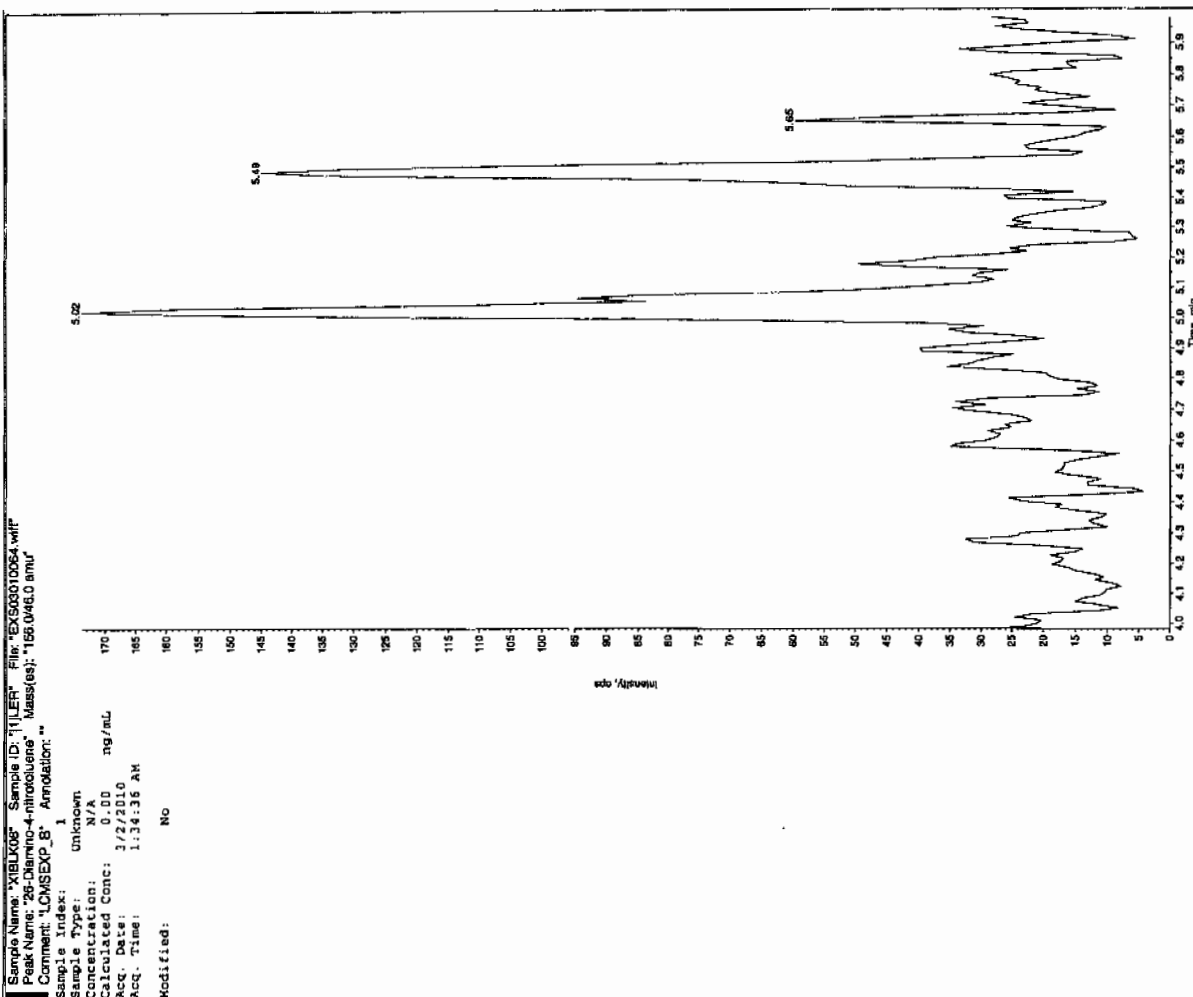
Acq. Date: 3/2/2010

Acq. Time: 1:34:36 AM

Modified: No

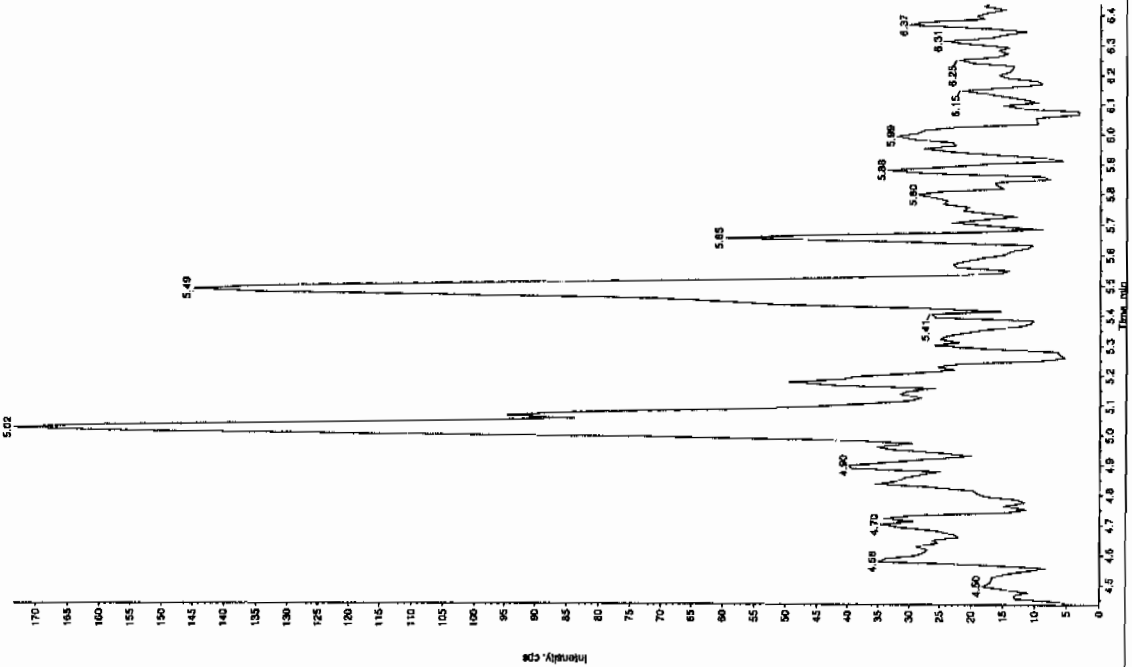


Run 0310410



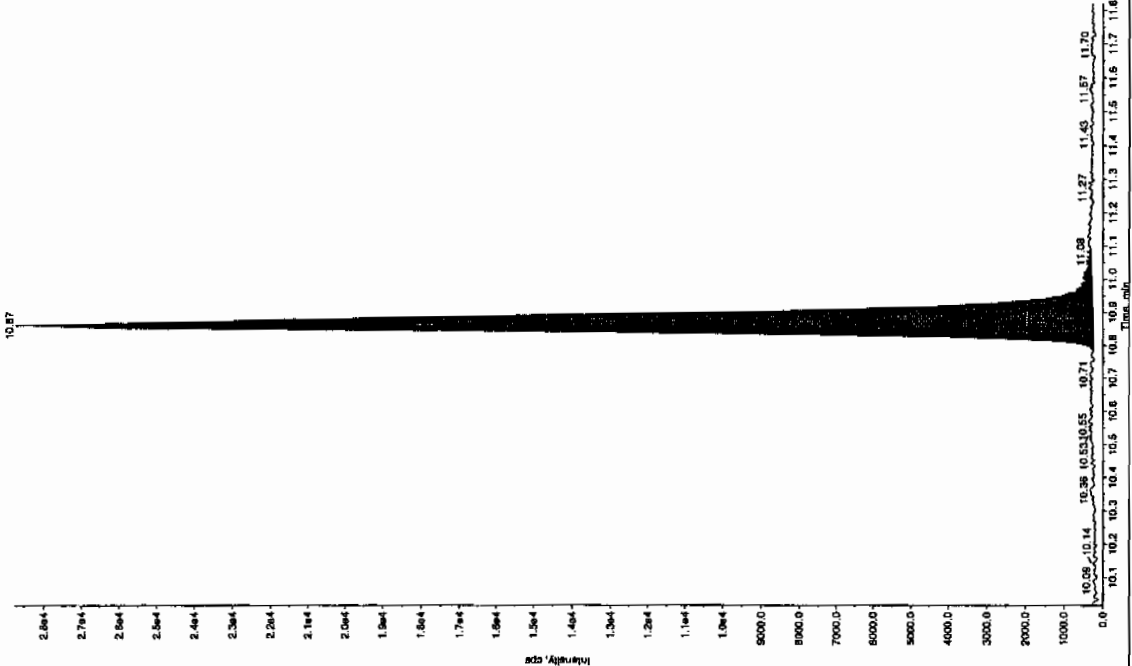
Sample Name: "XIBL008" Sample ID: "111ER" File: "EX503010064.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "165.048.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.80 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 1:34:36 AM
 Modified: No



Sample Name: "XIBL008" Sample ID: "111ER" File: "EX503010064.wif"
 Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Acq. Date: 3/2/2010
 Acq. Time: 1:34:36 AM
 Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 02-MAR-10 04:27

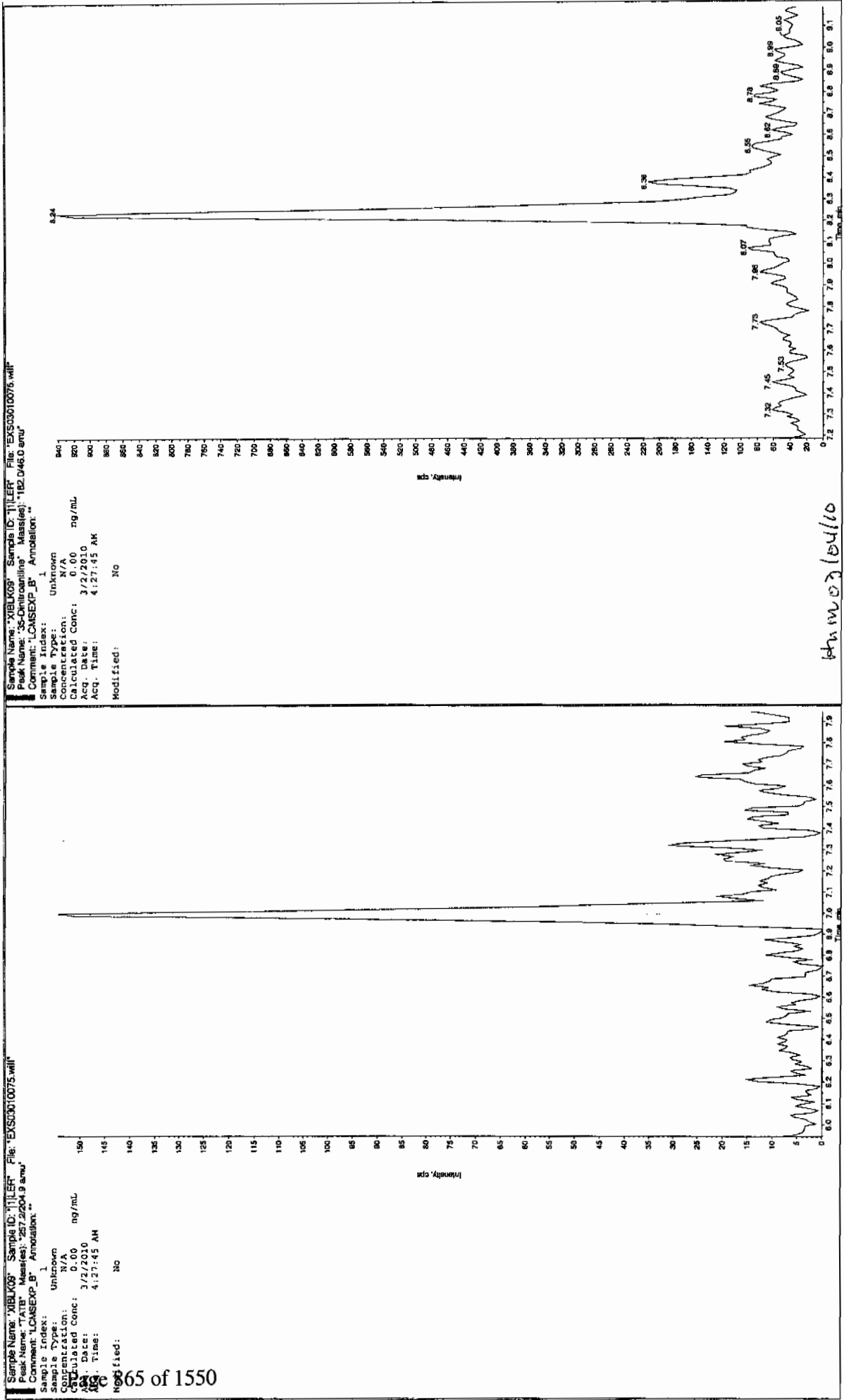
GEL Data File: EXS03010075.wiff

Instrument ID: LCMSMS

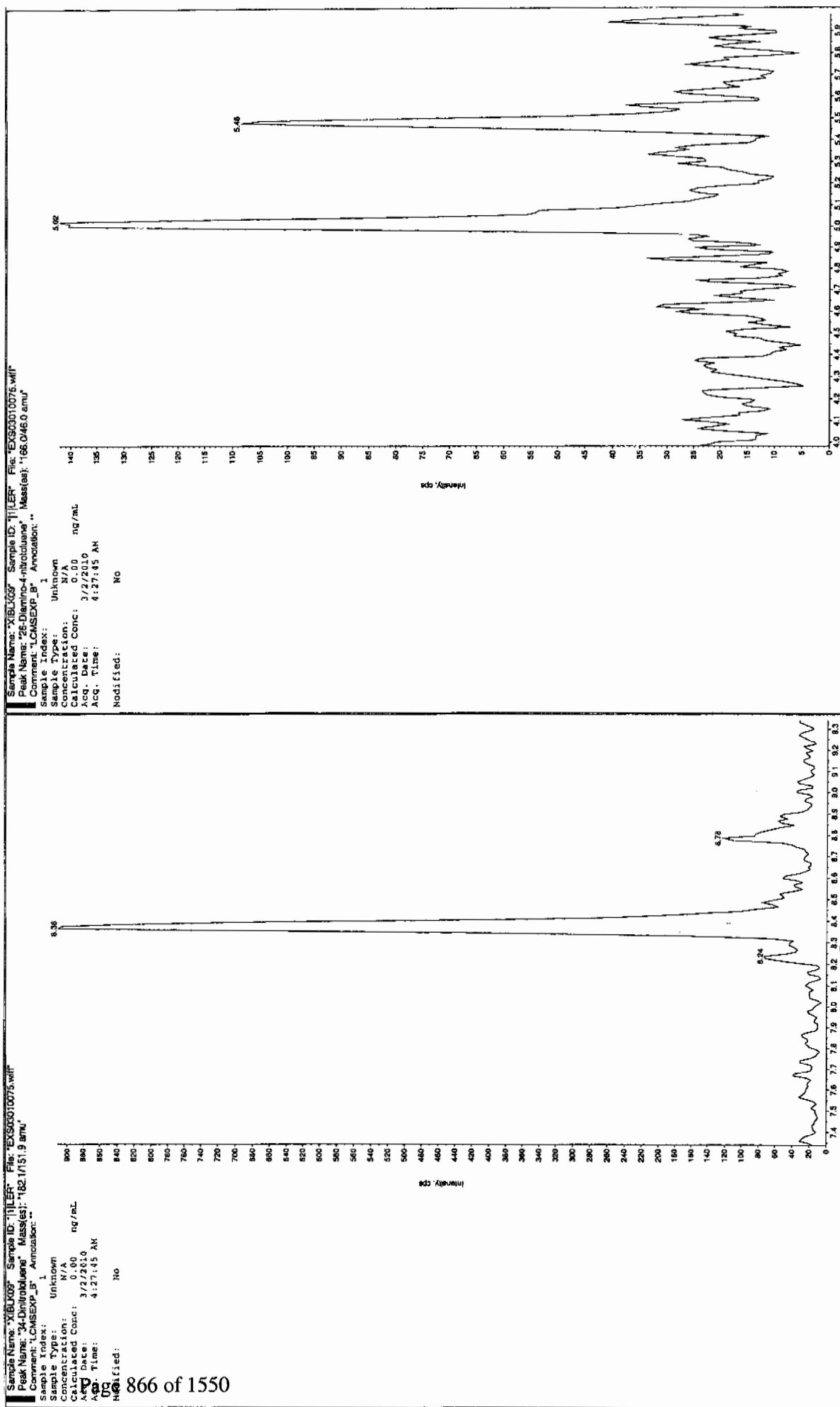
Column: Phenomenex Ultracarb 5u ODS(20)

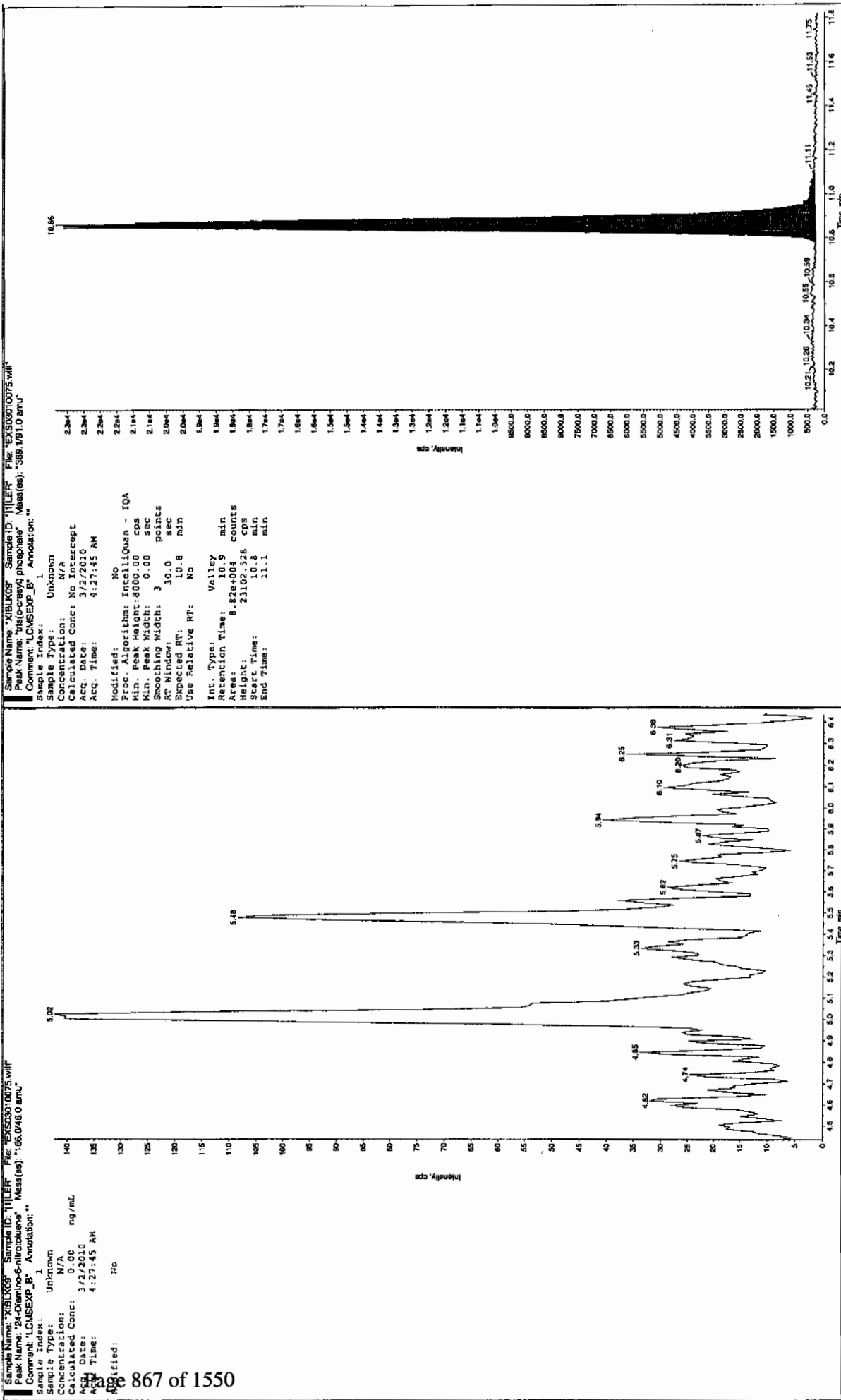
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

for 3/3/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 02-MAR-10 07:52

GEL Data File: EXS03010088.wiff

Instrument ID: LCMSMS

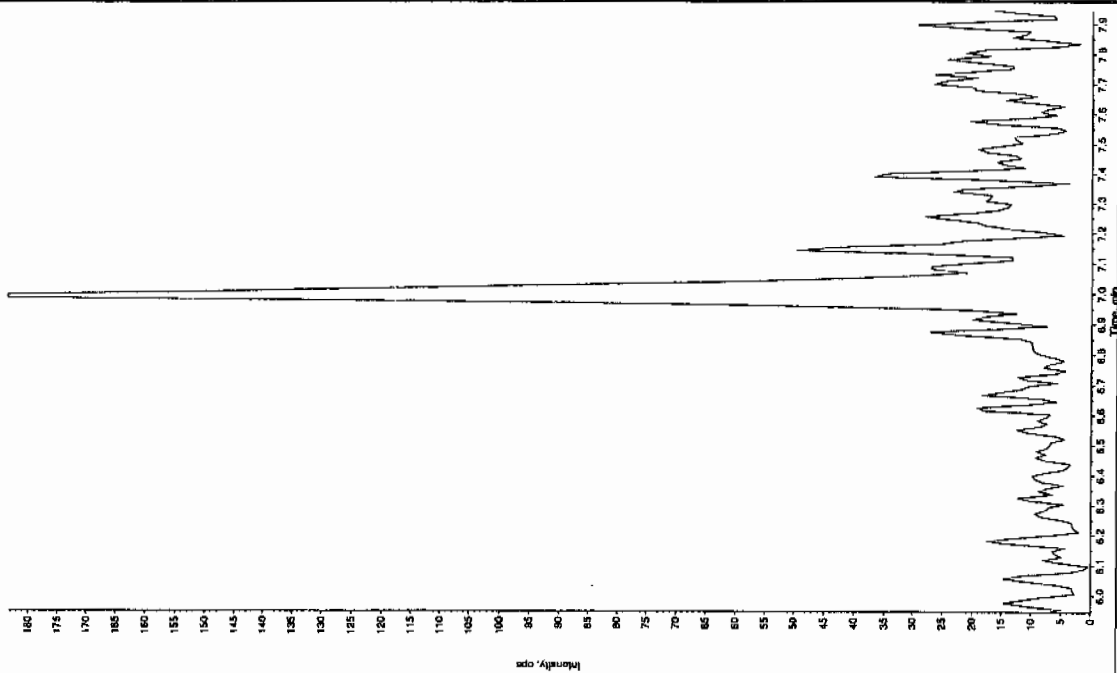
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

for 3/2/10

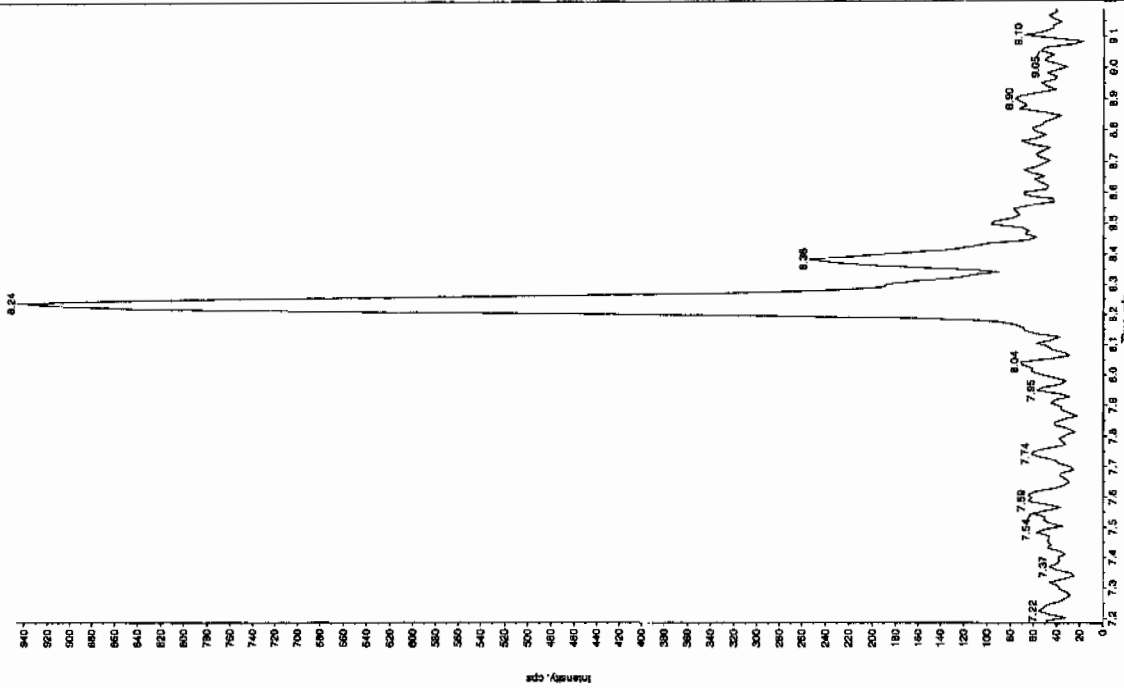
Sample Name: "XIBLX10" Sample ID: "111ER" File: "EXS03010088.will"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 7:52:21 AM
 Modified: No



Sample Name: "XIBLX10" Sample ID: "111ER" File: "EXS03010088.will"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

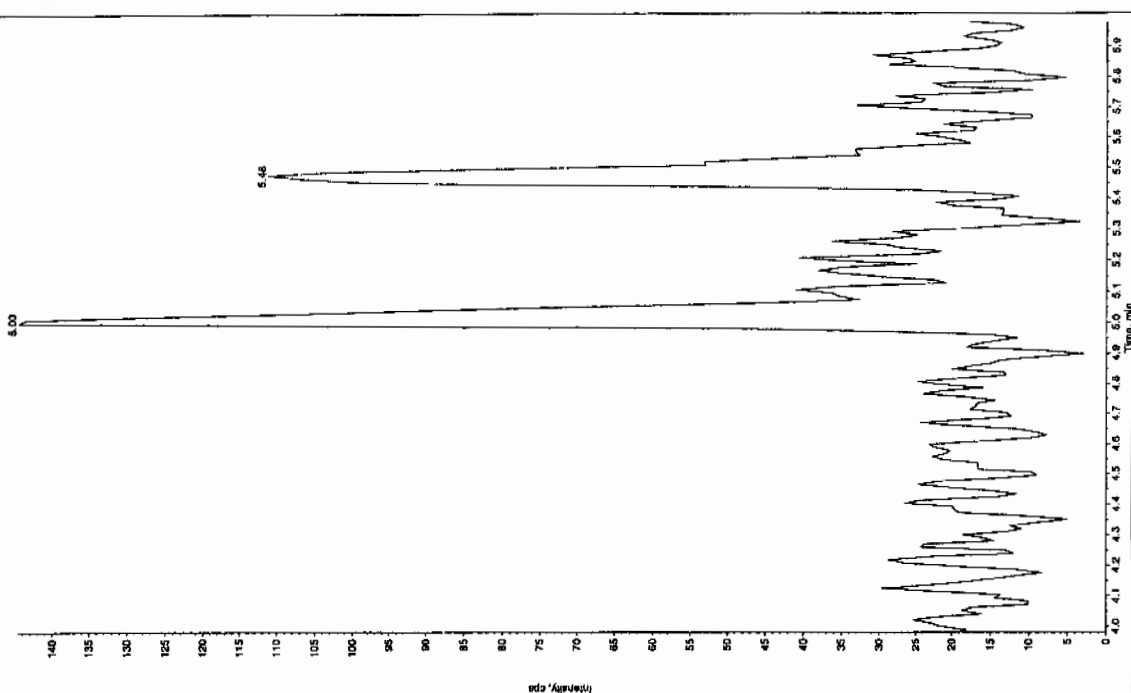
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 7:52:21 AM
 Modified: No



for 3/2/10

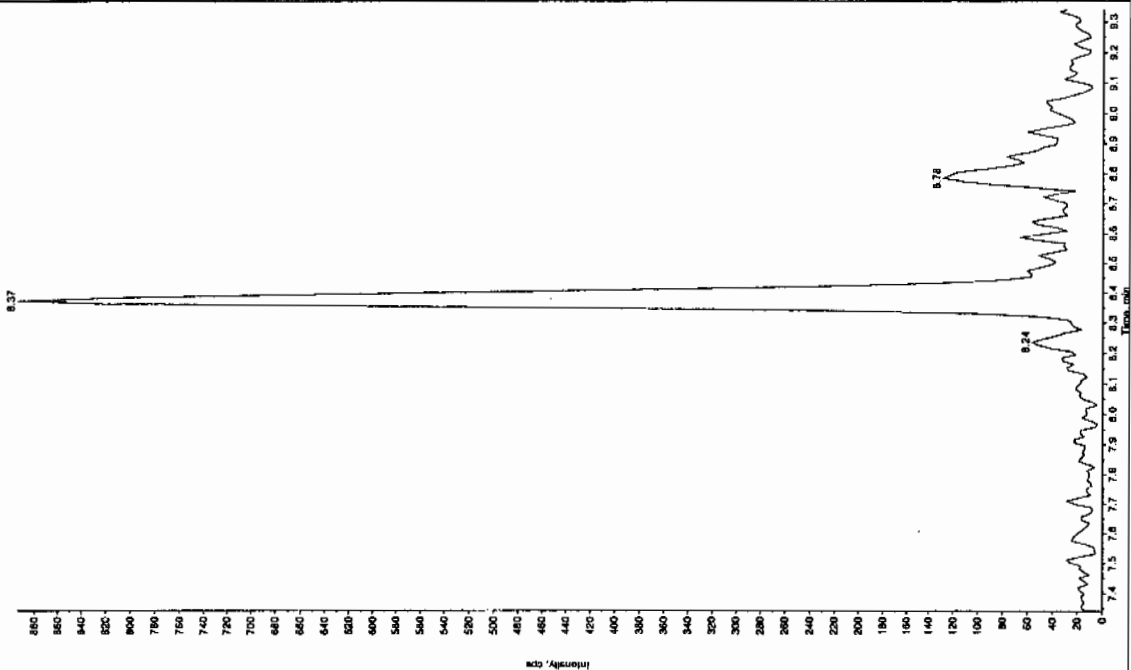
Sample Name: "XBLK10" Sample ID: "111ER" File: "EXS03010088.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "186.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Acq. Date: 3/2/2010
 Acq. Time: 7:52:21 AM
 Modified: NO



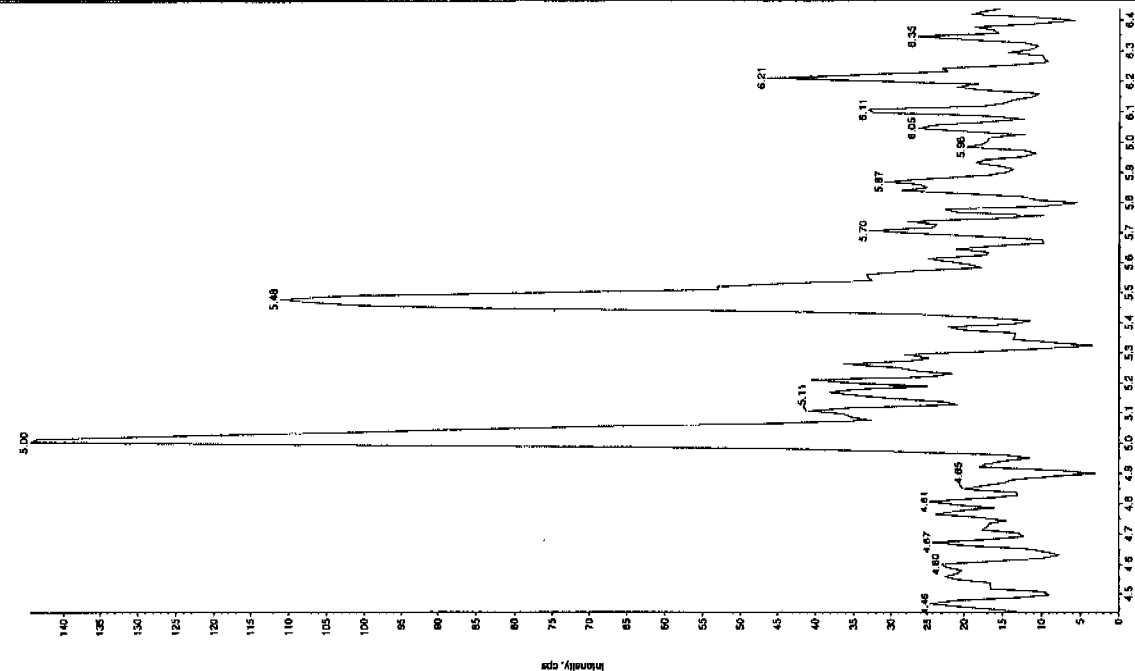
Sample Name: "XBLK10" Sample ID: "111ER" File: "EXS03010088.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Acq. Date: 3/2/2010
 Acq. Time: 7:52:21 AM
 Modified: NO



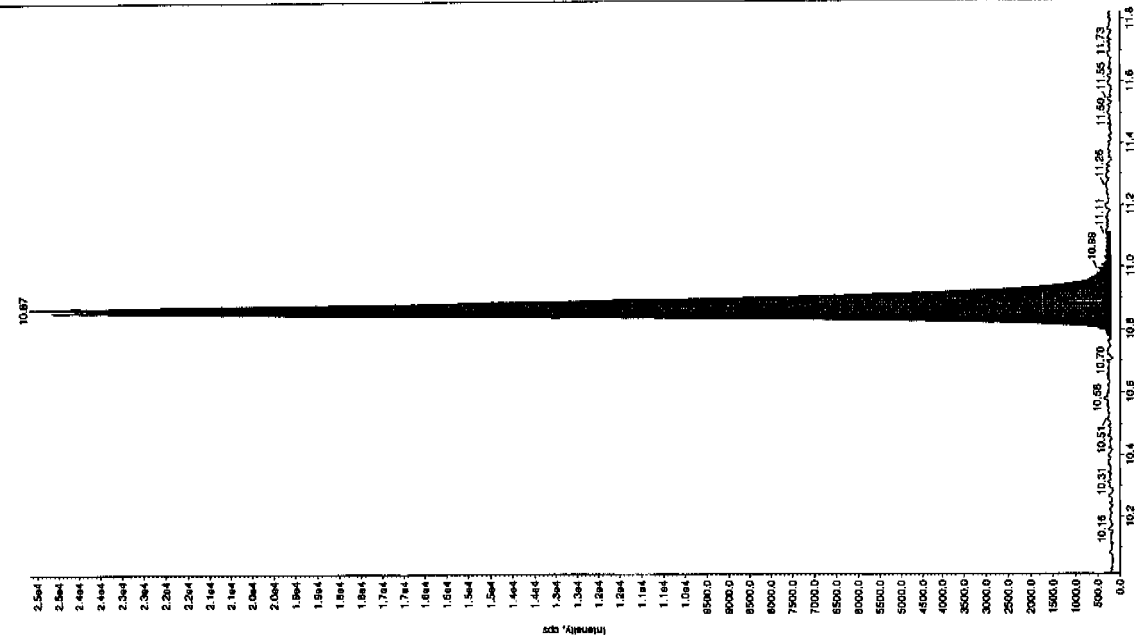
Sample Name: 'XBLK10' Sample ID: '111ER' File: 'EXS0010388.will'
 Peak Name: '24-Dinitro-6-nitrofluorene' Mass(es): '186.046.0 amu'
 Comment: 'LCMS-EXP-B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 7:52:21 AM
 Modified: No



Sample Name: 'XBLK10' Sample ID: '111ER' File: 'EXS0010388.will'
 Peak Name: 'tris(2-cresyl) phosphate' Mass(es): '369.19.0 amu'
 Comment: 'LCMS-EXP-B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: No Intercept
 Acq. Date: 3/2/2010
 Acq. Time: 7:52:21 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 9.01e+004 counts
 Height: 24962.246 cps
 Start Time: 10.8 min
 End Time: 11.1 min



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 02-MAR-10 11:17

GEL Data File: EXS03010101.wiff

Instrument ID: LCMSMS

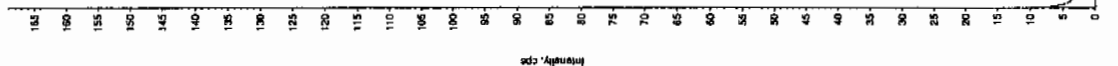
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

01/16/10
JW

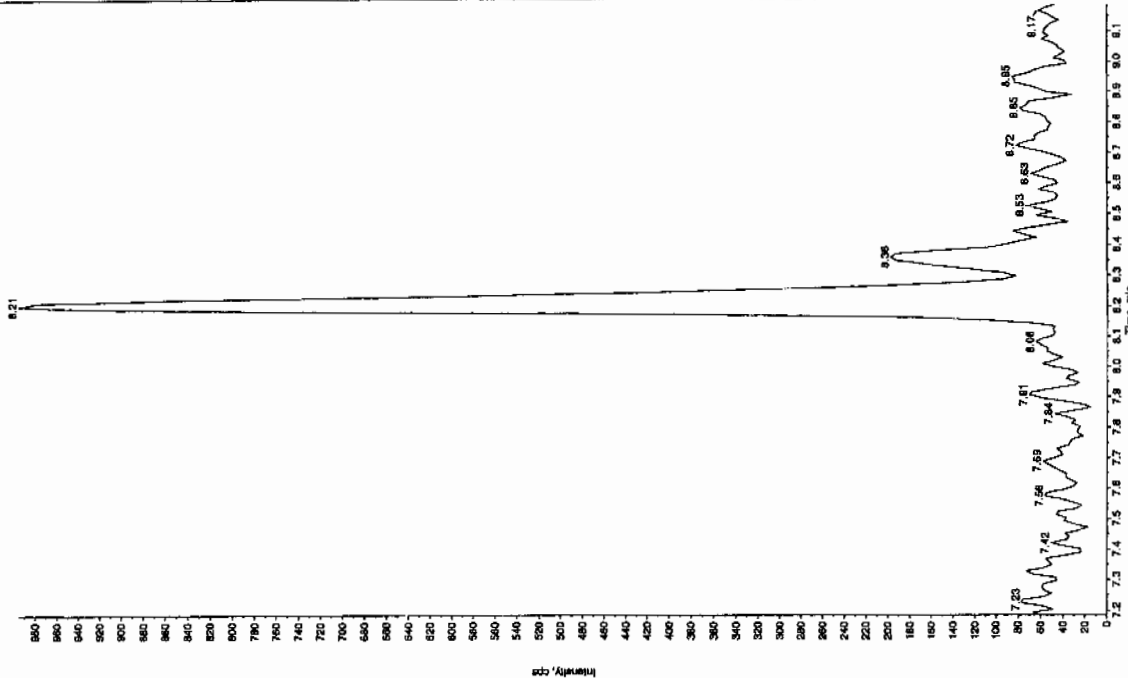
Sample Name: 'XBLK11' Sample ID: '11LBR' File: 'EX03010101.wif'
Peak Name: 'TATB' Mass(es): '237.2204.3 amu'
Comment: 'LONSEXP_B' Annotation: ''

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/2/2010
Acq. Time: 11:17:09 AM
Modified: No

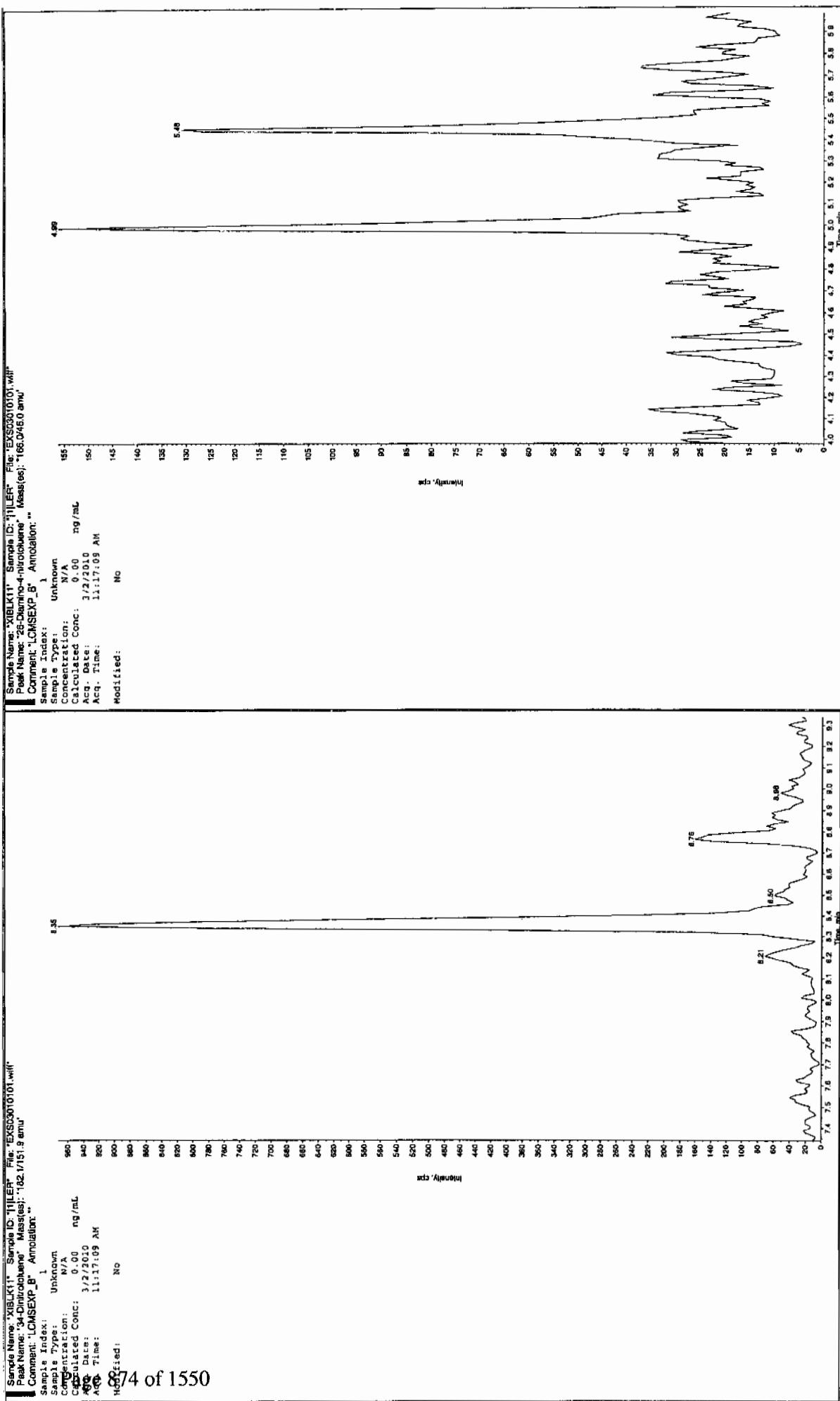


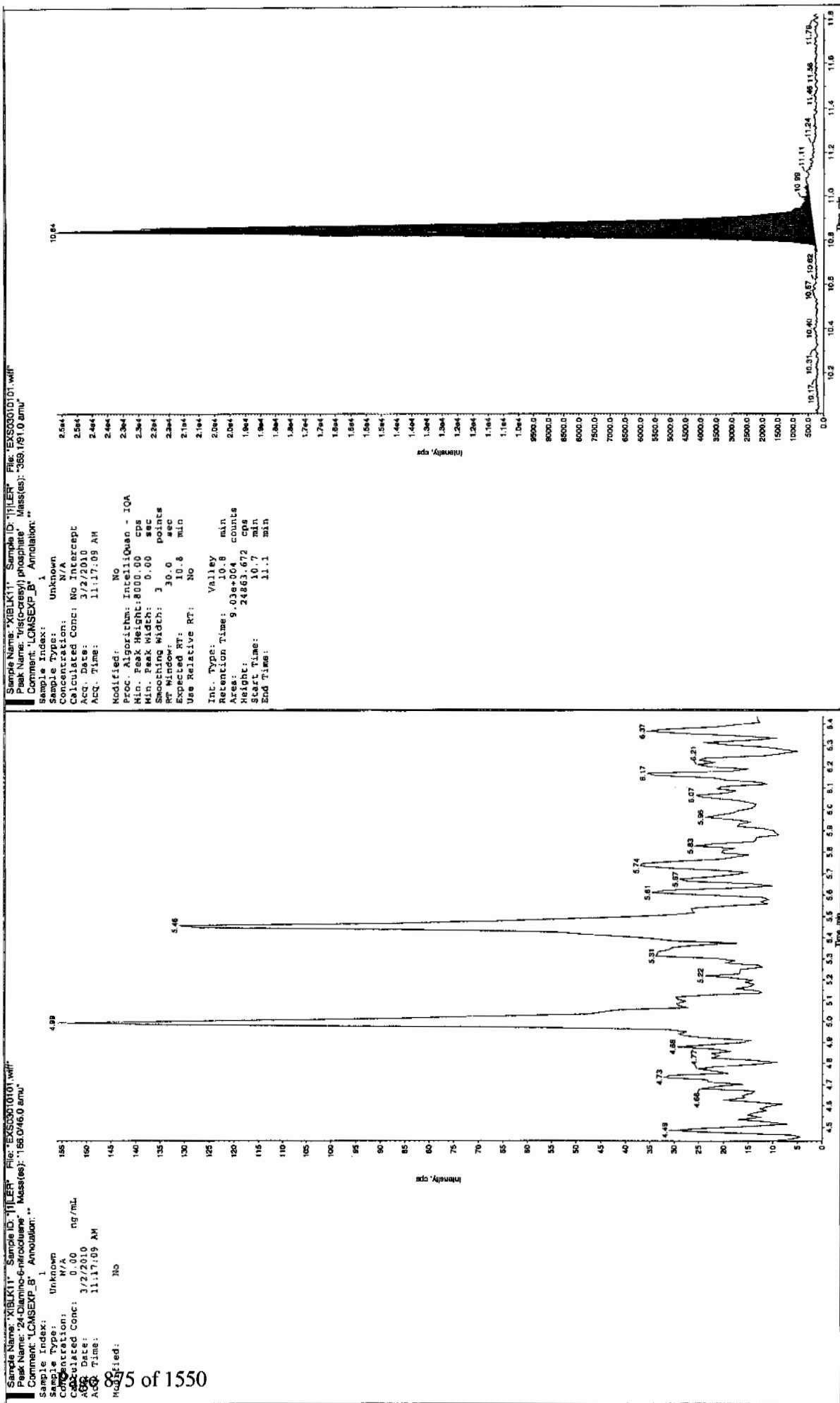
Sample Name: 'XBLK11' Sample ID: '11LBR' File: 'EX03010101.wif'
Peak Name: '35-Oxitanolone' Mass(es): '162.046.0 amu'
Comment: 'LONSEXP_B' Annotation: ''

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/2/2010
Acq. Time: 11:17:09 AM
Modified: No



thm 03/10/4/10





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK12

Analysis Date: 02-MAR-10 12:20

GEL Data File: EXS03010105.wiff

Instrument ID: LCMSMS

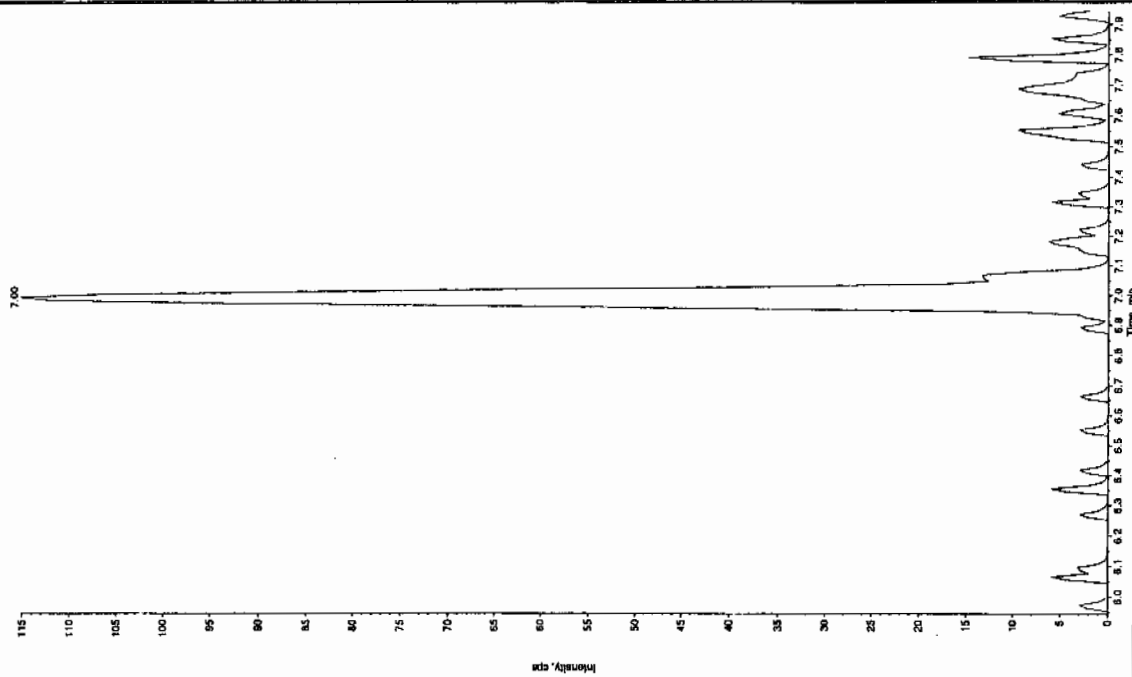
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 3/2/10

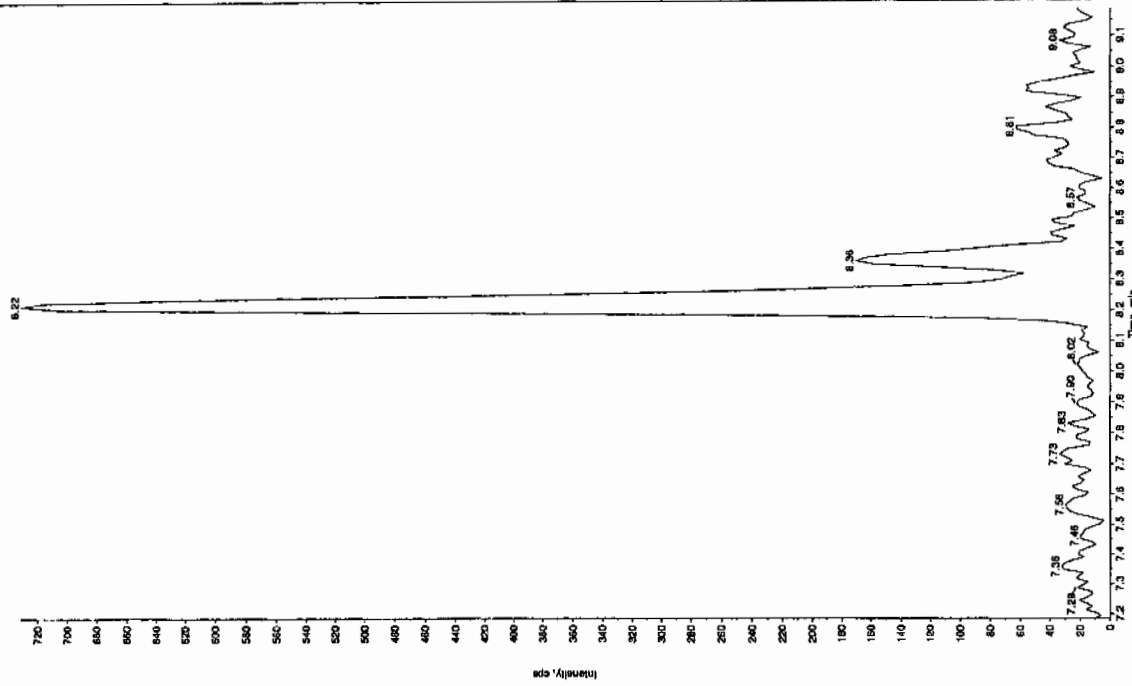
Sample Name: "XIBLK12" Sample ID: "TILER" File: "EX503010105.wit"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 12:20:11 PM
 Modified: No

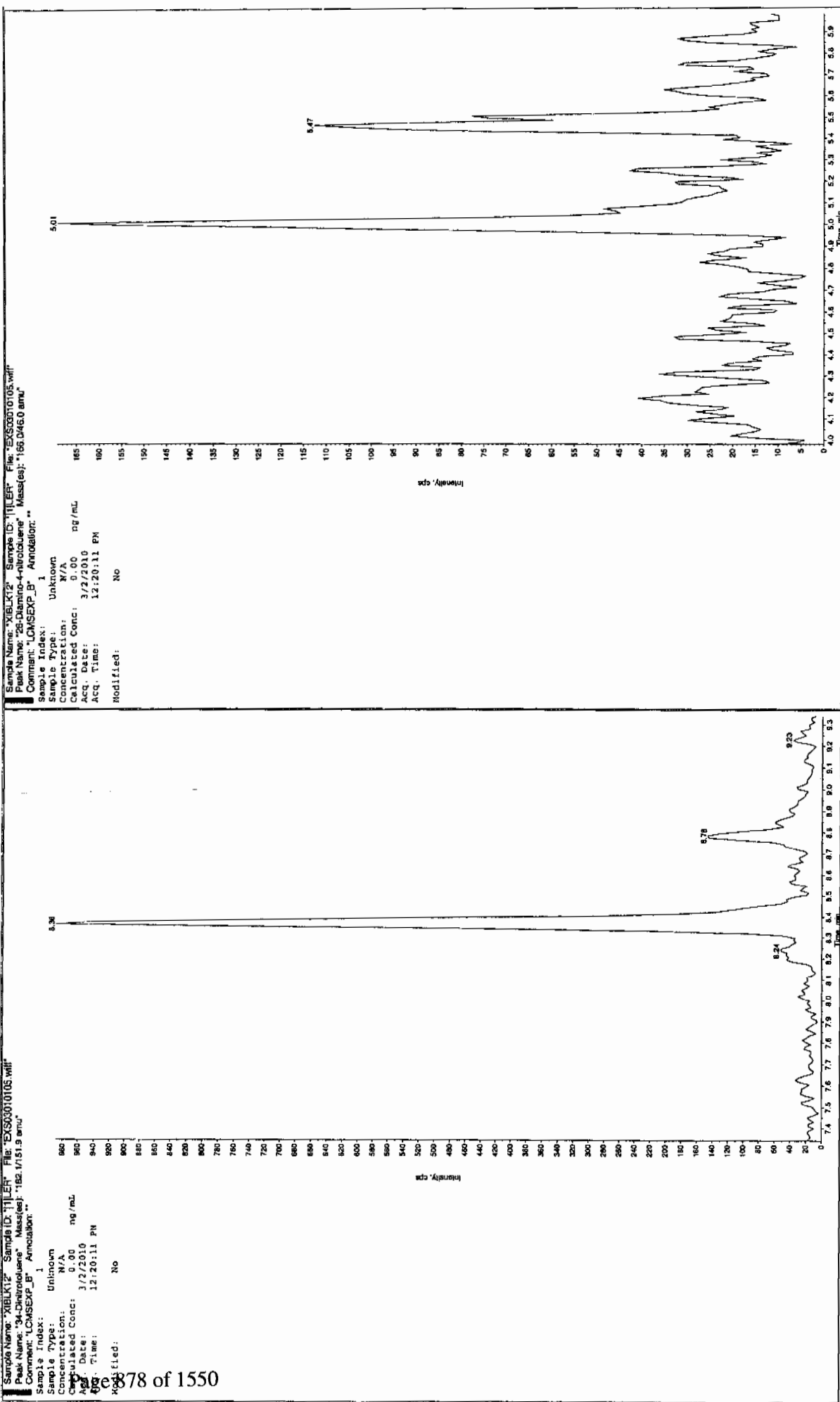


Sample Name: "XIBLK12" Sample ID: "TILER" File: "EX503010105.wit"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 12:20:11 PM
 Modified: No

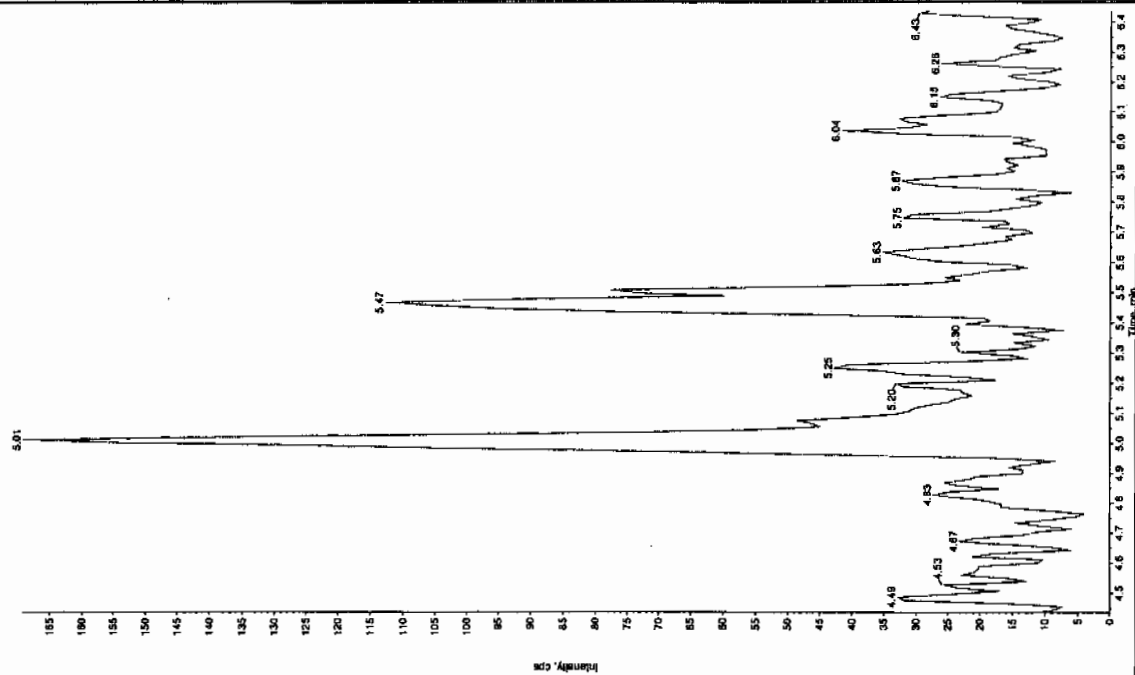


Hum 03 (04/10)



Sample Name: "XBLK12" Sample ID: "11LER" File: "EX93010105.wif"
 Peak Name: "24-Chlorine-6-nitrofluorene" Mass(es): "156.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: Unknown
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 12:20:11 PM
 Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK13

Analysis Date: 02-MAR-10 14:10

GEL Data File: EXS03010112.wiff

Instrument ID: LCMSMS

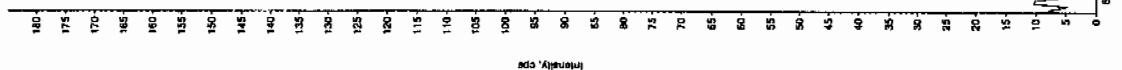
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

01/13/2010

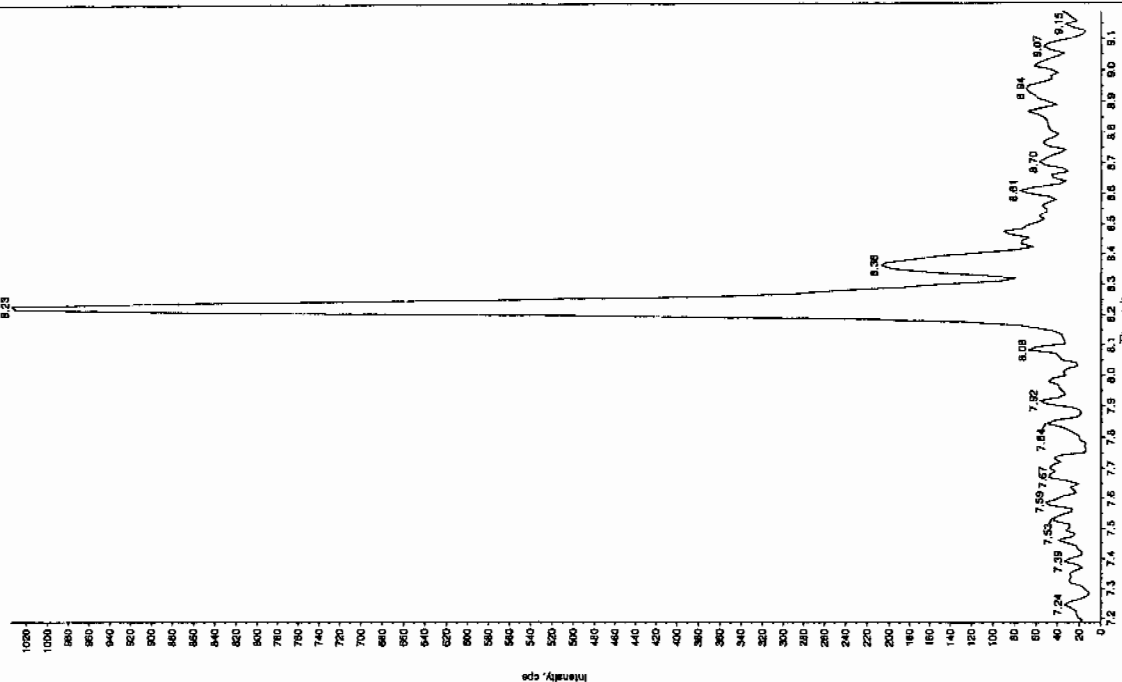
Sample Name: "XIBLK13" Sample ID: "TILER" File: "EX503010112.will"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 2:10:39 PM
 Modified: No



Sample Name: "XIBLK13" Sample ID: "TILER" File: "EX503010112.will"
 Peak Name: "35-Dinitroanthracene" Mass(es): "182.0450 amu"
 Comment: "LCMSEXP_B" Annotation: ""

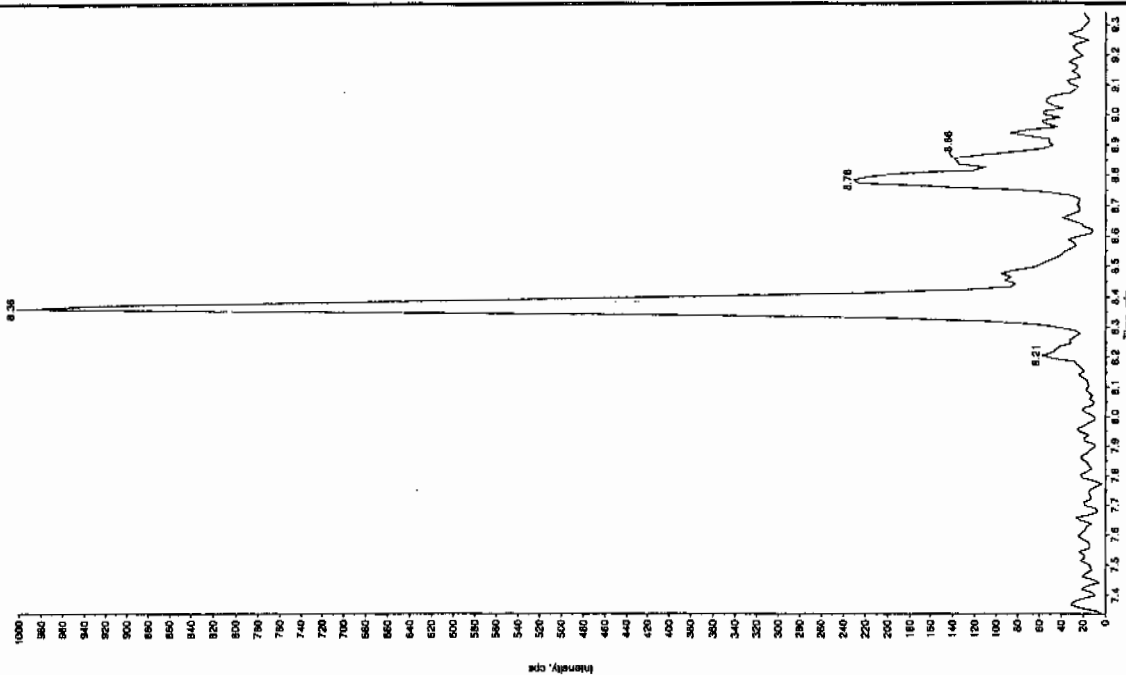
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 2:10:39 PM
 Modified: No



Time: 03/04/10

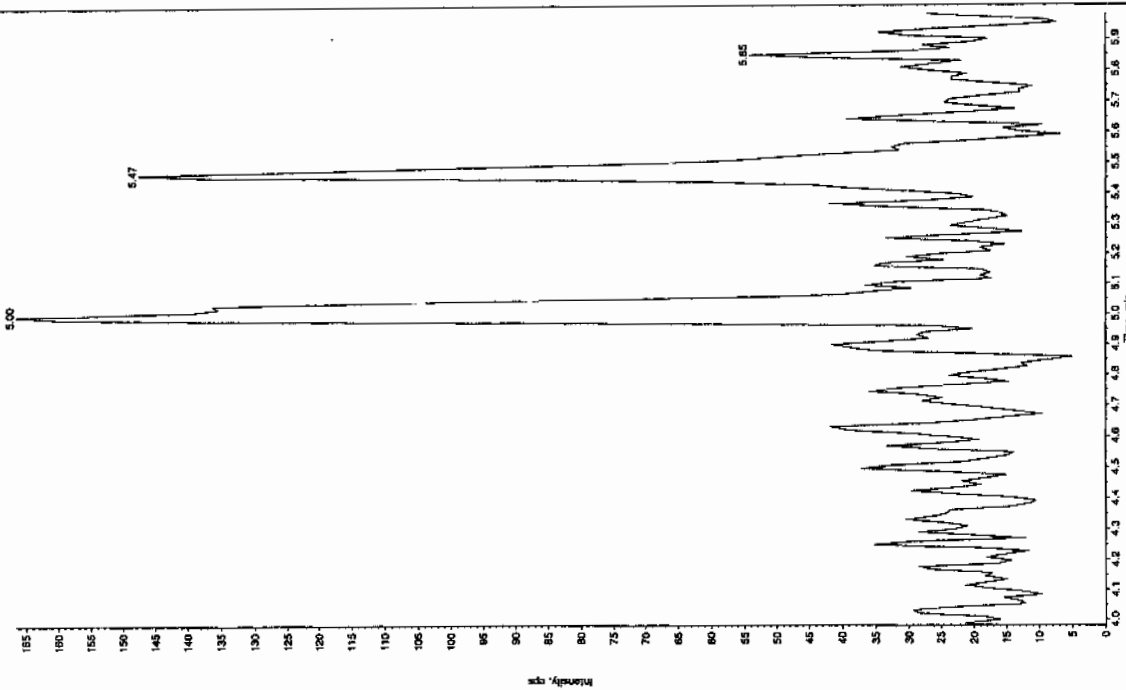
Sample Name: 'XBLK13' Sample ID: '11LEP' File: 'EX03010112.wif'
 Peak Name: '34-Chlorobenzene' Mass(es): '162.151.9 amu'
 Comment: 'LCMSXP_B' Annotation: ''

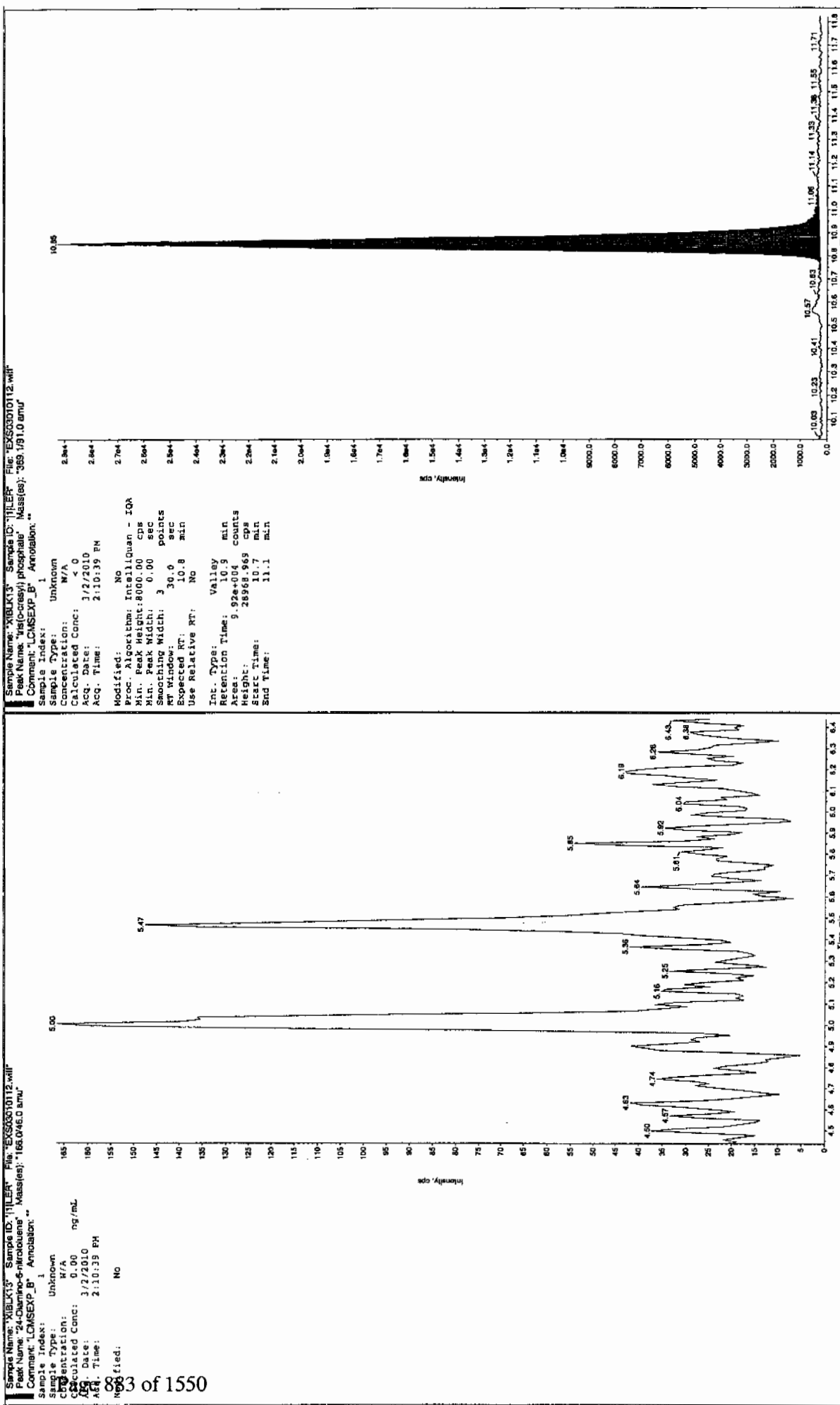
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 2:10:39 PM
 Modified: No



Sample Name: 'XBLK13' Sample ID: '11LEP' File: 'EX03010112.wif'
 Peak Name: '25-Dichloro-4-nitrobenzene' Mass(es): '166.046.0 amu'
 Comment: 'LCMSXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 2:10:39 PM
 Modified: No





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK14

Analysis Date: 02-MAR-10 17:35

GEL Data File: EXS03010125.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

01/13/10
JW

Sample Name: "XIBLK14" Sample ID: "T11ER" File: "EXS03010125.wif"

Peak Name: "TATP" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

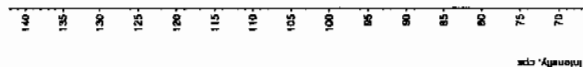
Concentration: N/A ng/mL

Calculated Conc: 0.00

Acq. Date: 3/2/2010

Acq. Time: 5:35:36 PM

Modified: No



Sample Name: "XIBLK14" Sample ID: "T11ER" File: "EXS03010125.wif"

Peak Name: "35-Dinitroanthracene" Mass(es): "162.046.0 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

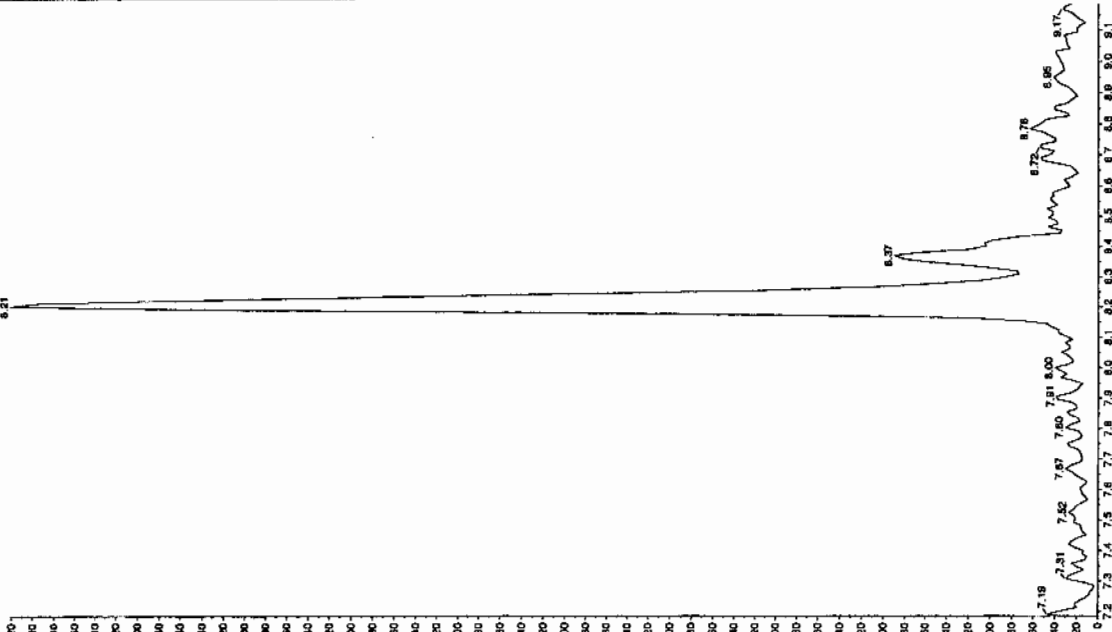
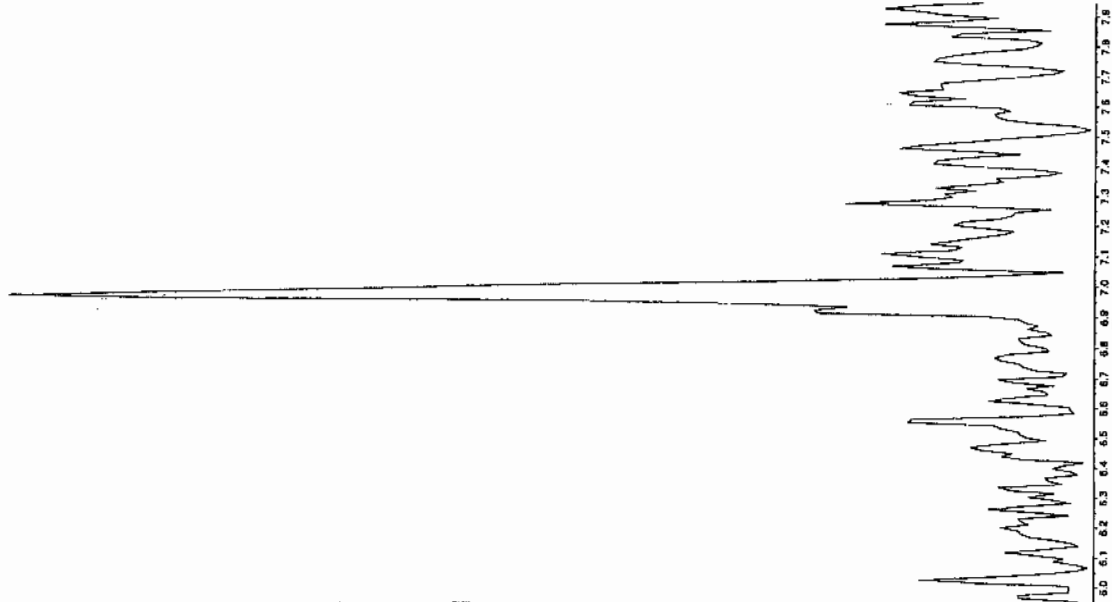
Concentration: N/A ng/mL

Calculated Conc: 0.00

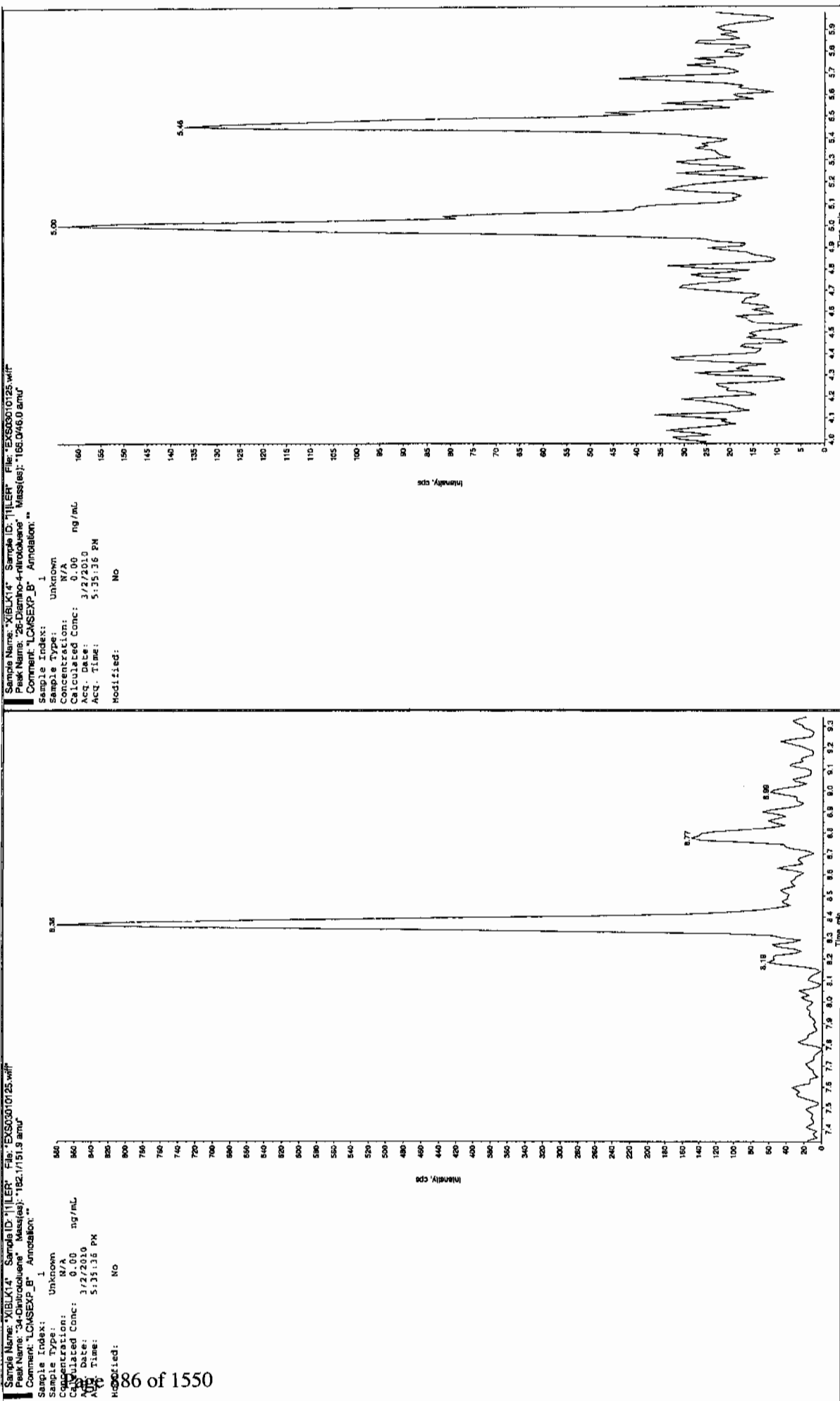
Acq. Date: 3/2/2010

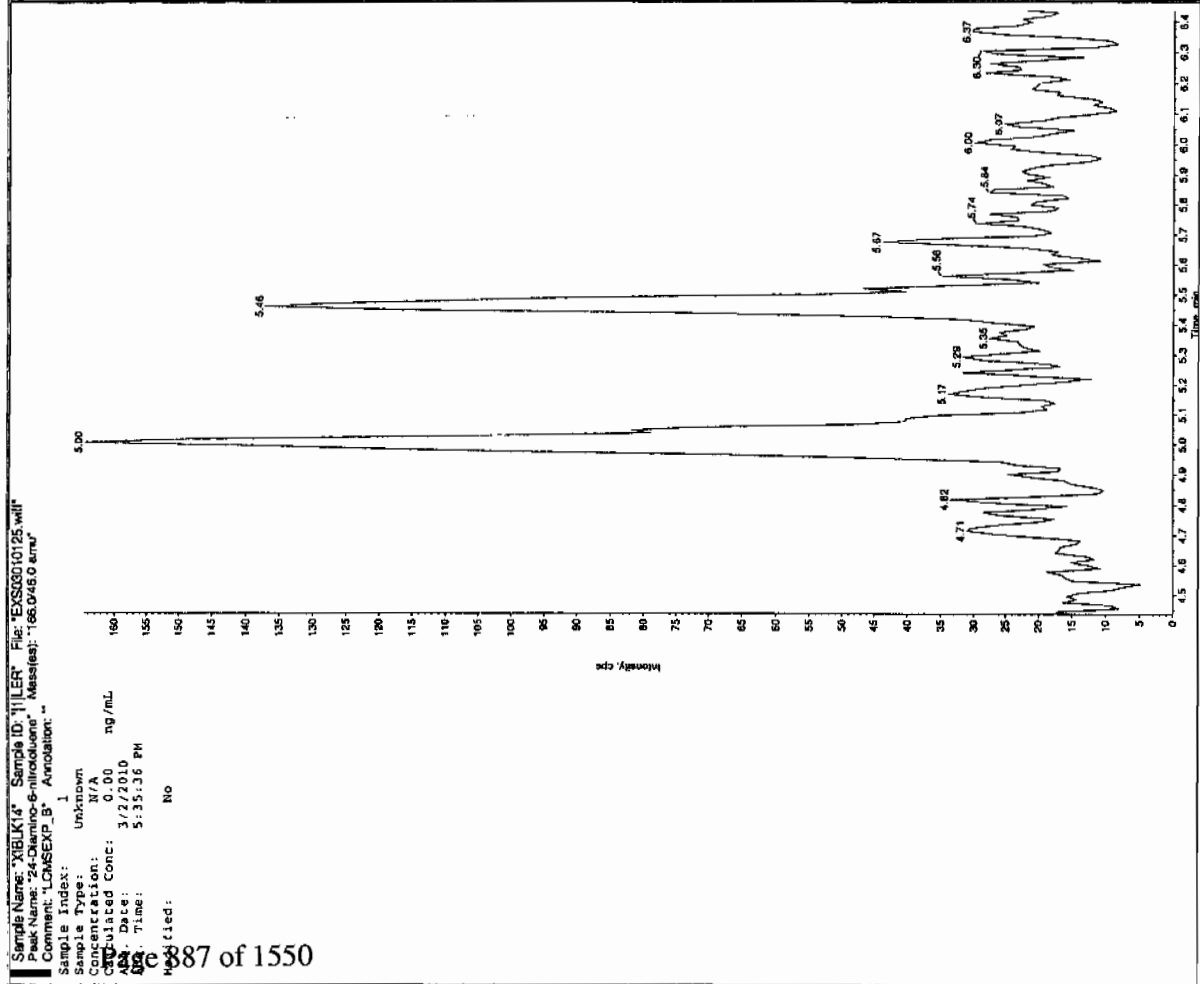
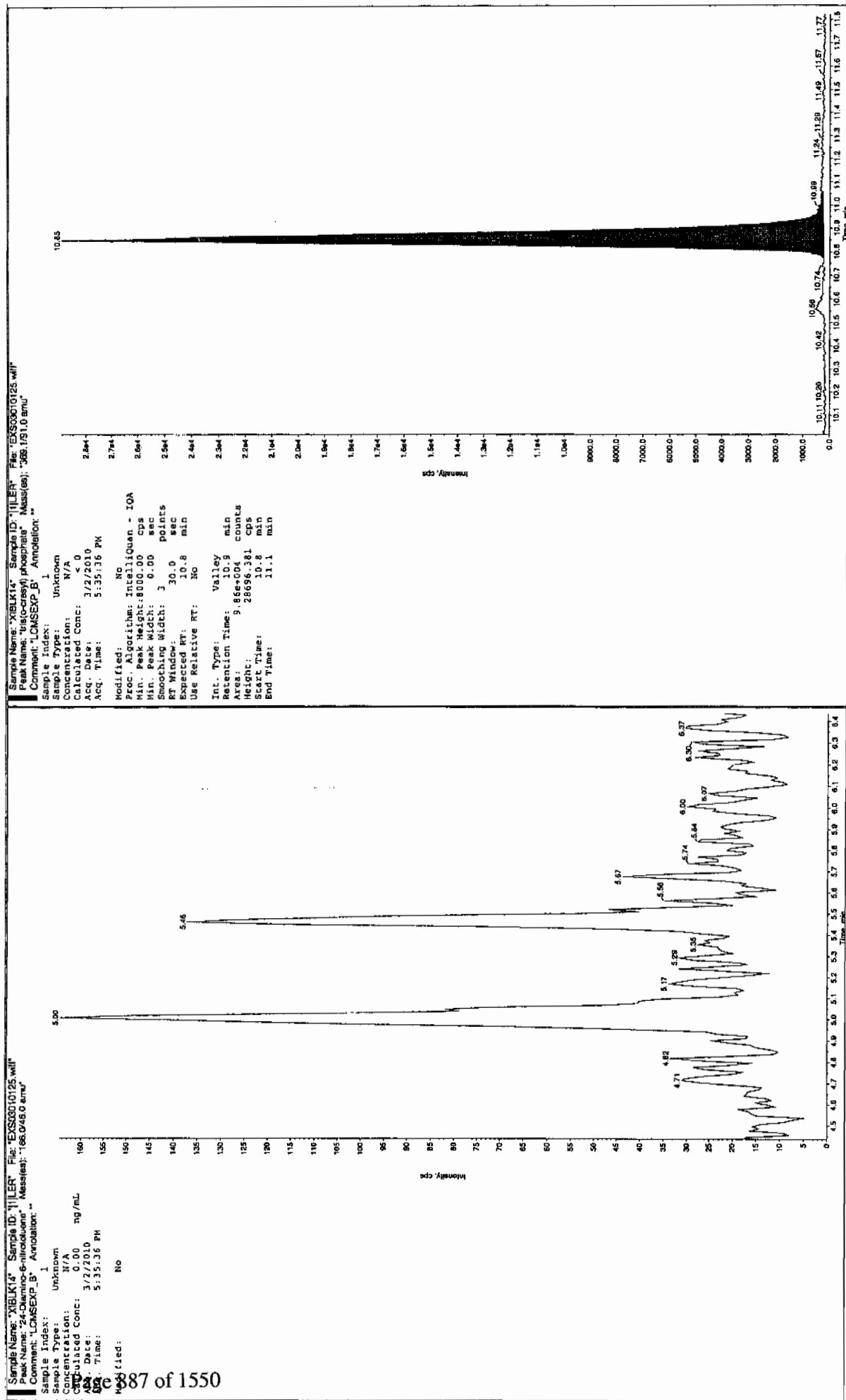
Acq. Time: 5:35:36 PM

Modified: No



4mm 03/04/10





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK15

Analysis Date: 02-MAR-10 21:00

GEL Data File: EXS03010138.wiff

Instrument ID: LCMSMS

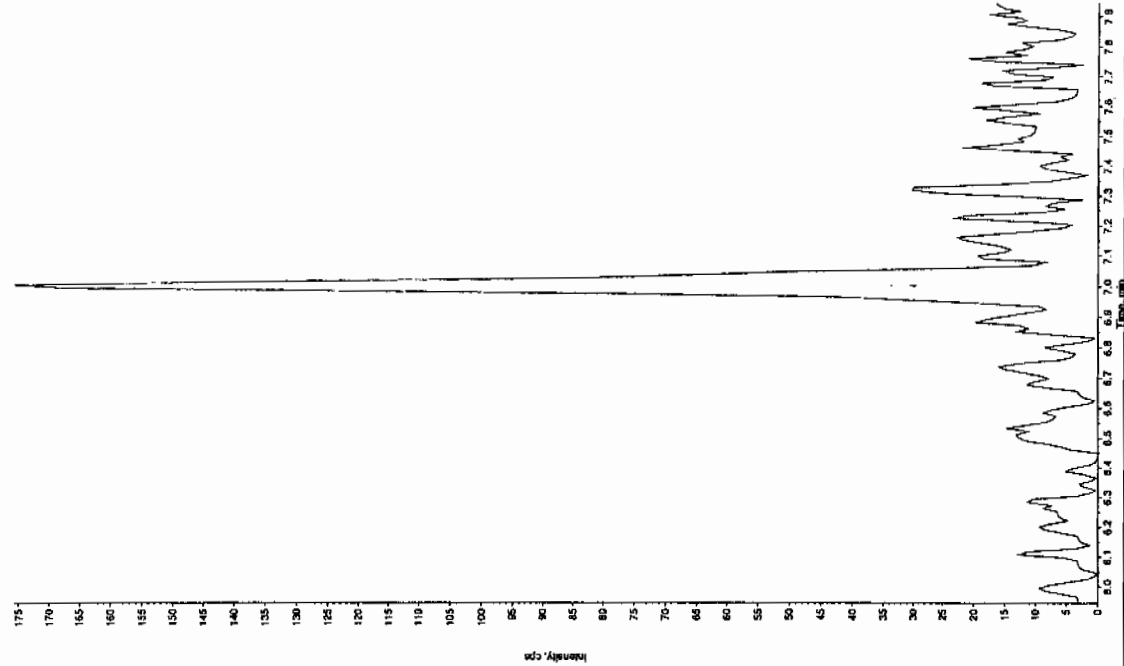
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Don 3/3/10

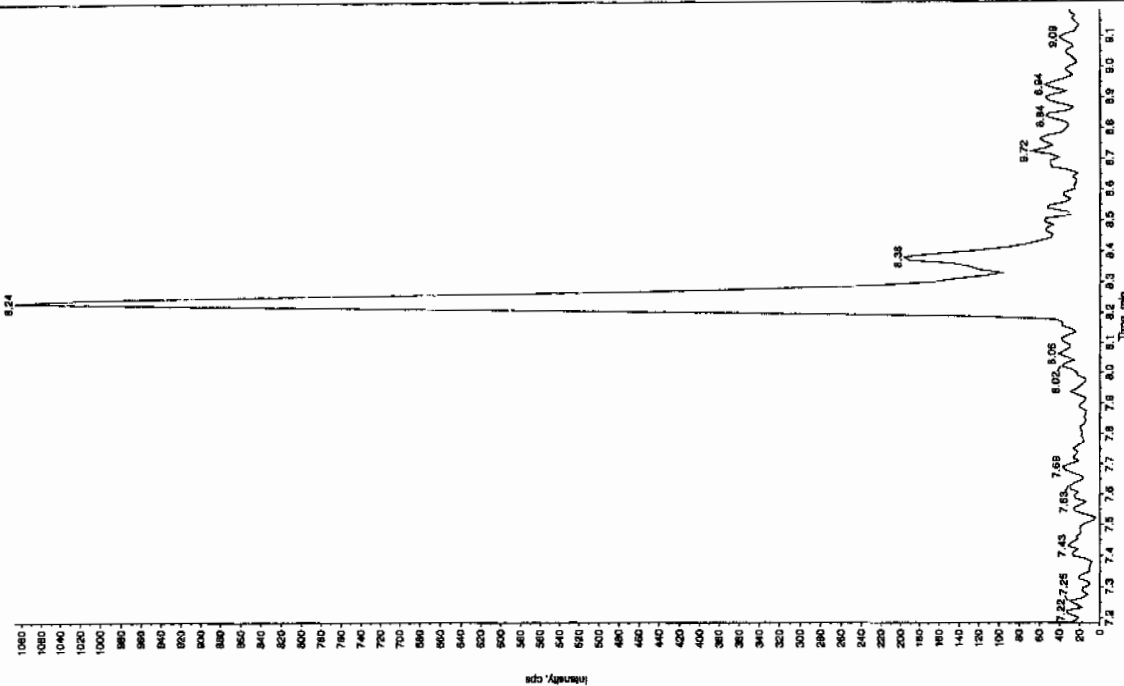
Sample Name: "XIBLK15" Sample ID: "111ER" File: "EX503010138.wif"
 Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 9:00:15 PM
 Modified: No



Sample Name: "XIBLK15" Sample ID: "111ER" File: "EX503010138.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.0/166.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

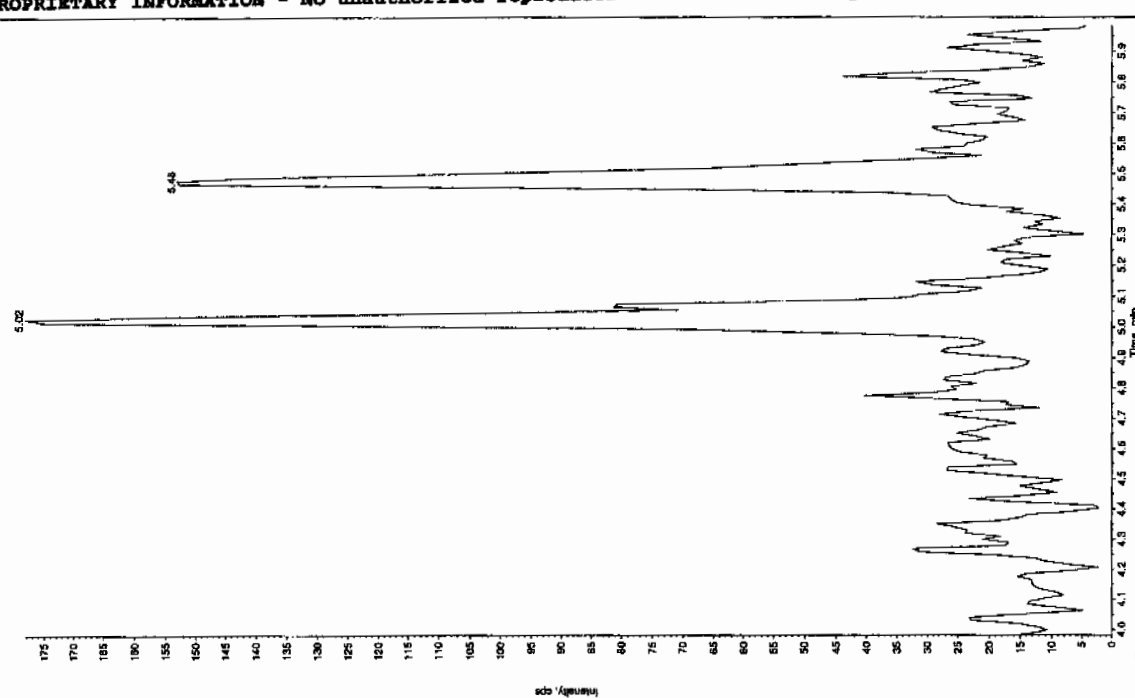
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 9:00:15 PM
 Modified: No



Don 03/04/10

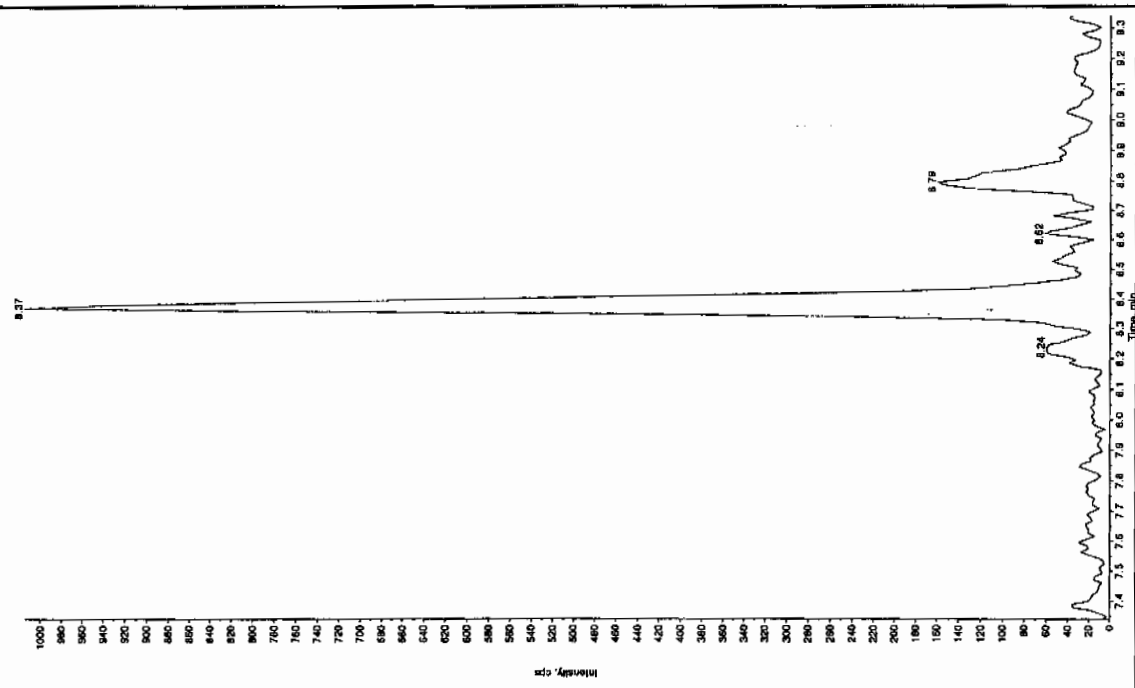
Sample Name: "XBLK15" Sample ID: "111ER" File: "EX503010138.wif"
 Peak Name: "25-Diamino-4-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Acq. Date: 3/2/2010
 Acq. Time: 9:00:15 PM
 Modified: No



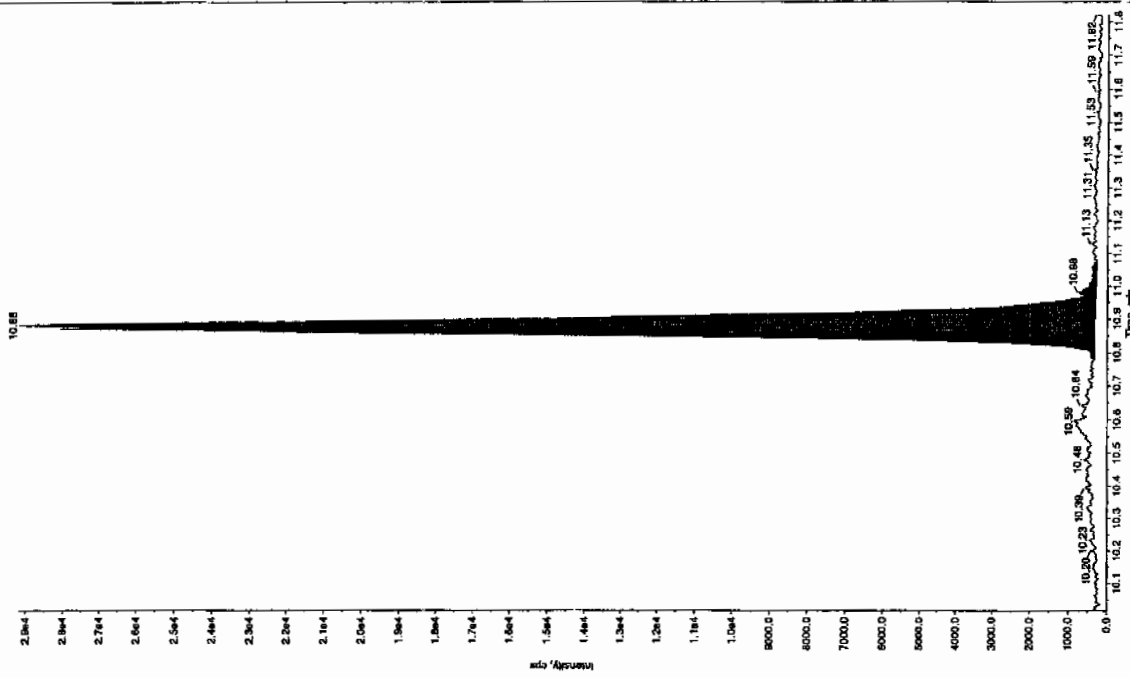
Sample Name: "XBLK15" Sample ID: "111ER" File: "EX503010138.wif"
 Peak Name: "34-Dinitrochlorobenzene" Mass(es): "182.1715.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Acq. Date: 3/2/2010
 Acq. Time: 9:00:15 PM
 Modified: No



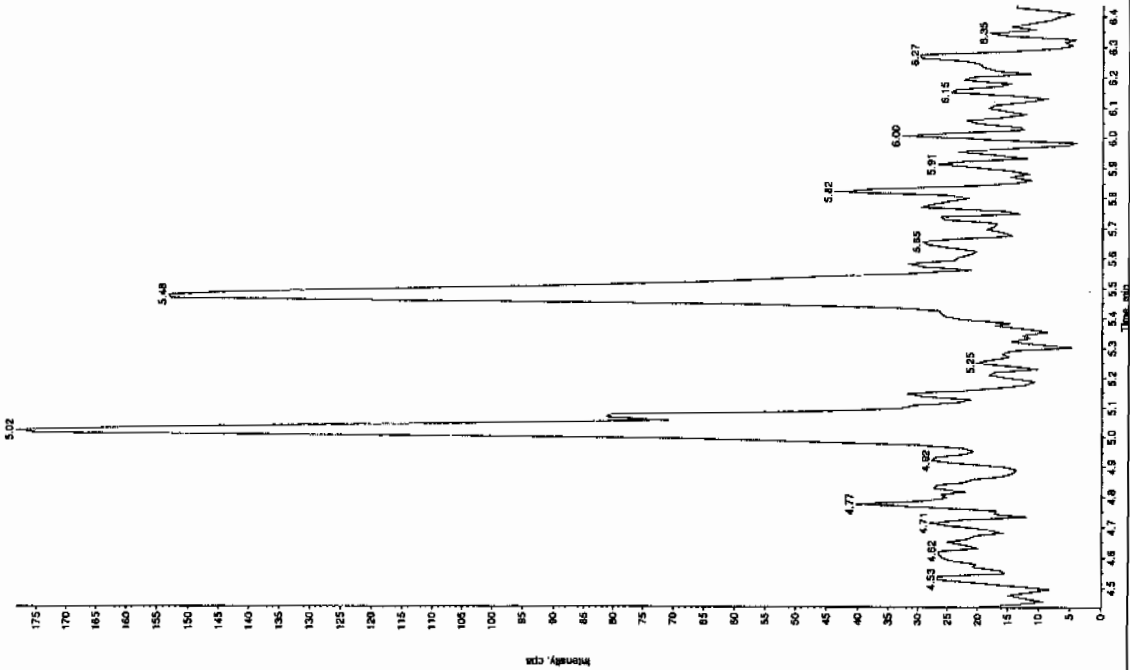
Sample Name: "XBLK15" Sample ID: "HLEP" File: "EX503010138.wif"
 Peak Name: "bis(cis-oxyl)phenyl" Mass(es): "389.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: < 0
 Acq. Date: 3/2/2010
 Acq. Time: 9:00:15 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOL
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.02e+005 counts
 Height: 28664.624 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "XBLK15" Sample ID: "HLEP" File: "EX503010138.wif"
 Peak Name: "24-Diamino-6-nitrobenzene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 9:00:15 PM
 Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1620

Lab Code: GEL

Lab Sample ID: XIBLK16

Analysis Date: 03-MAR-10 00:24

GEL Data File: EXS03010151.wiff

Instrument ID: LCMSMS

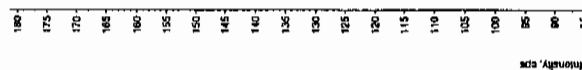
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

for 3/10

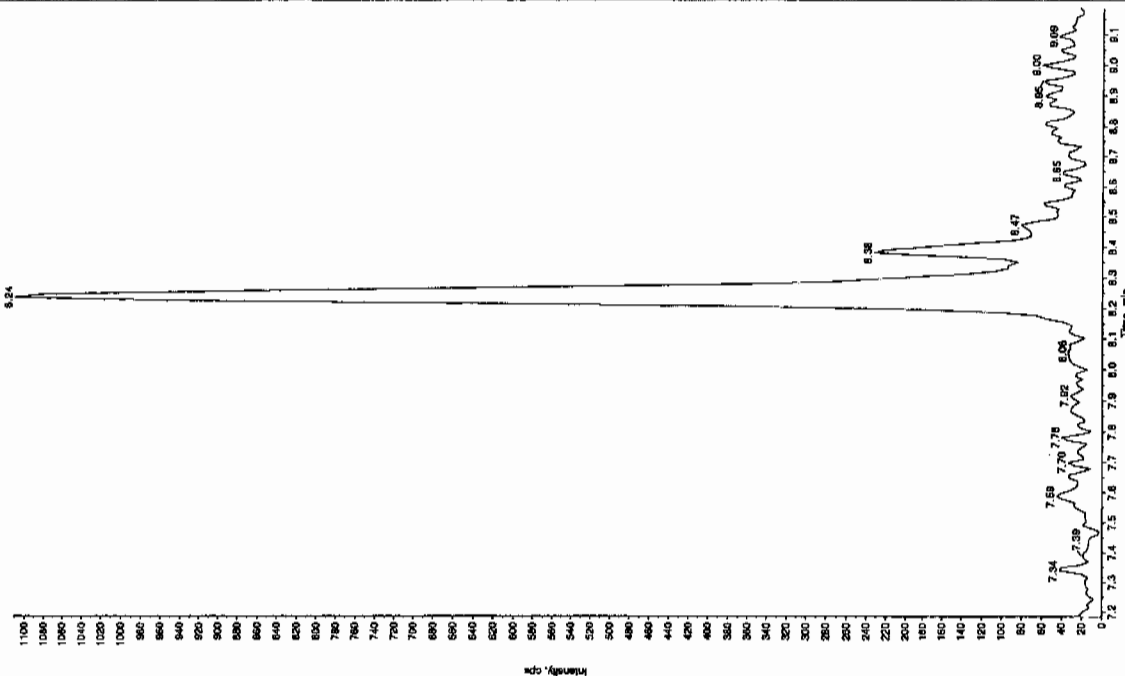
Sample Name: "XBLK16" Sample ID: "11LER" File: "EXS0010151.will"
 Peak Name: "TATB" Mass(es): "257.22049 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/3/2010
 Acq. Time: 12:24:53 AM
 Modified: No



Sample Name: "XBLK16" Sample ID: "11LER" File: "EXS0010151.will"
 Peak Name: "35-Dihydroquinoline" Mass(es): "192.0460 amu"
 Comment: "LCMSEXP_B" Annotation: ""

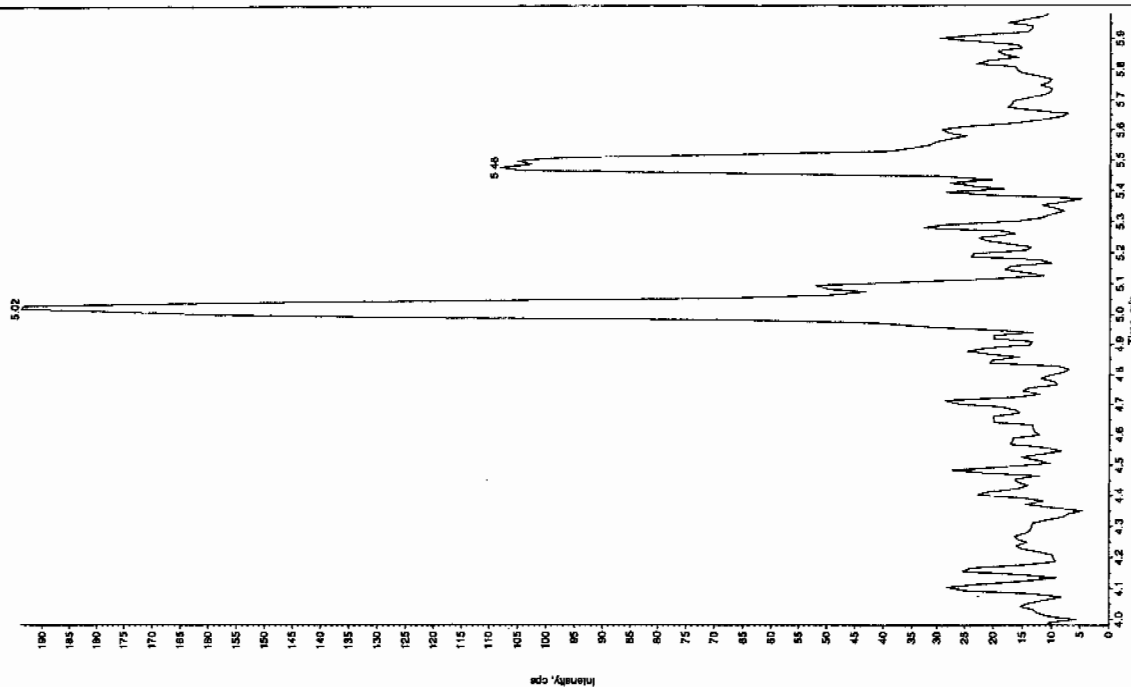
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/3/2010
 Acq. Time: 12:24:53 AM
 Modified: No



for 03/04/10

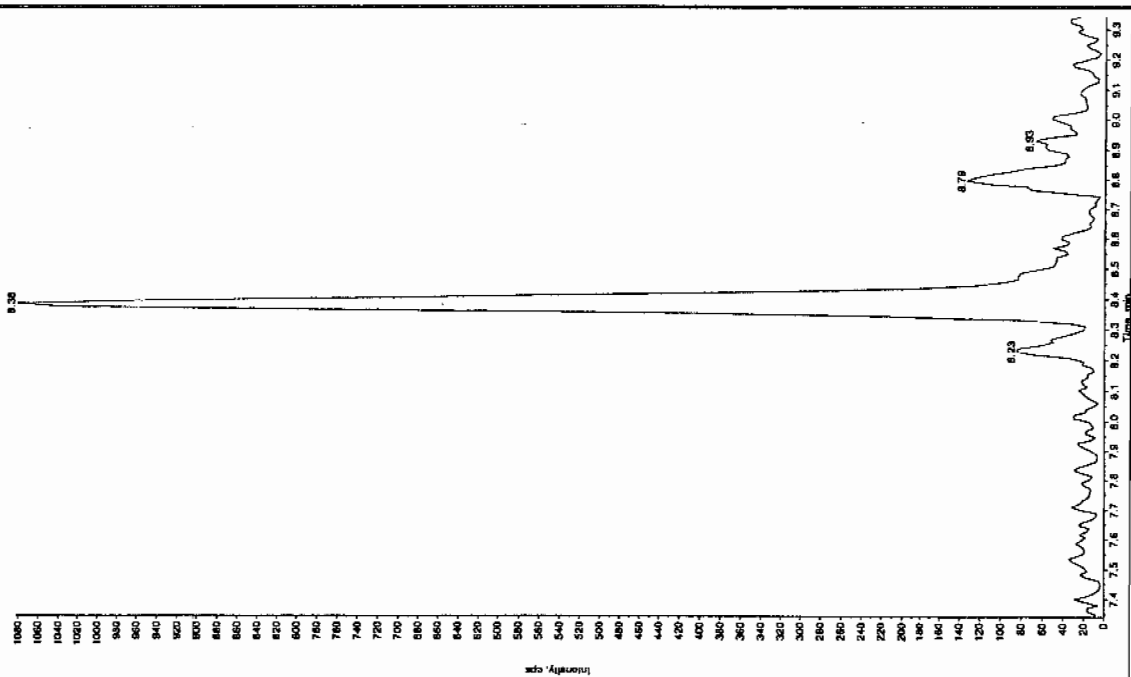
Sample Name: "XBLK16" Sample ID: "HLER" File: "EXS0010151.wif"
 Peak Name: "36-Chlorocyclohexene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/3/2010
 Acq. Time: 12:24:53 AM
 Modified: No



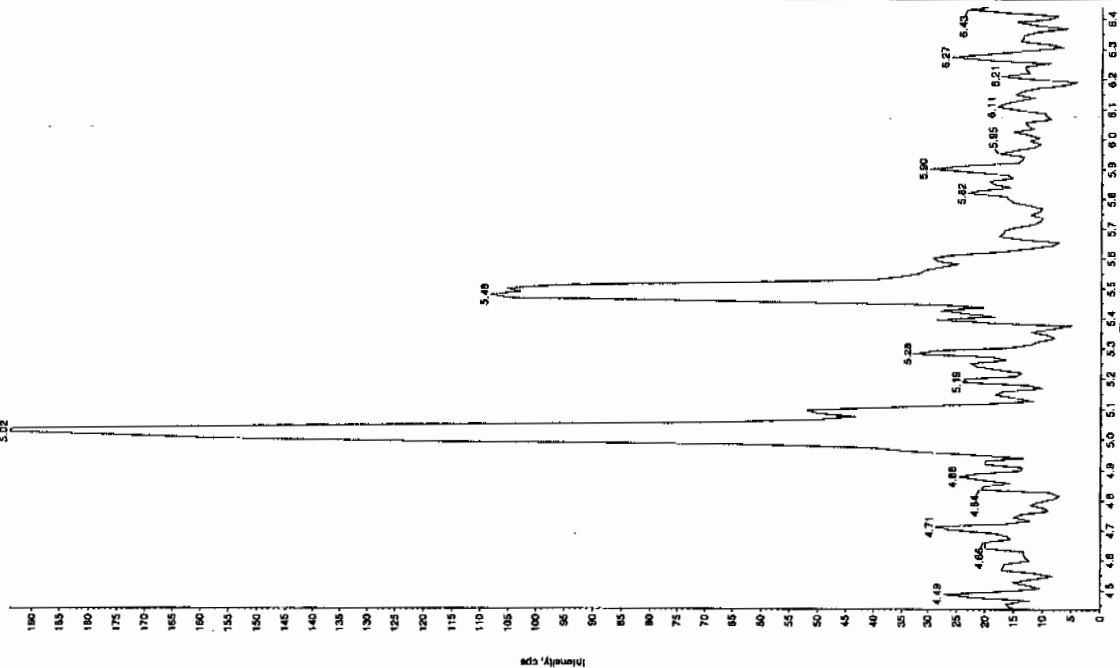
Sample Name: "XBLK16" Sample ID: "HLER" File: "EXS0010151.wif"
 Peak Name: "36-Chlorocyclohexene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/3/2010
 Acq. Time: 12:24:53 AM
 Modified: No



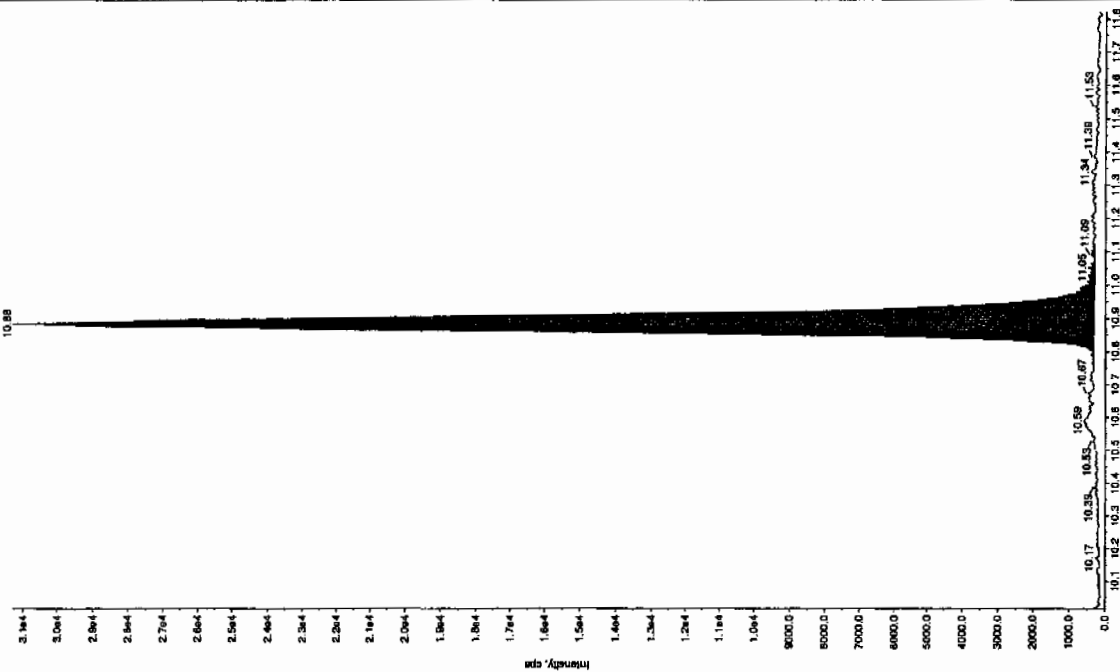
Sample Name: "XBLK16" Sample ID: "11LER" File: "EX803010151.wif"
 Peak Name: "24-Ramno-6-nucleotides" Mass(es): "166.046.0 amu"
 Comment: "LCMSXP_B1 Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/3/2010
 Acq. Time: 12:24:53 AM
 Modified: No



Sample Name: "XBLK16" Sample ID: "11LER" File: "EX803010151.wif"
 Peak Name: "Tris(o-cresyl) phosphite" Mass(es): "369.191.0 amu"
 Comment: "LCMSXP_B1 Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 4.0
 Acq. Date: 3/3/2010
 Acq. Time: 12:24:53 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.07e003 counts
 Height: 30999.023 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Nairb.ref

;Positive ion monoisotopic and average masses from solution
 ;of NaI/Rbi (2.0/0.05ug/ul) in 50/20 2-propanol/H2O.
 ;Most useful general purpose calibrant for all low
 ;MW applications, including MS/MS work.
 ;At high resolution, readily covers from m/z 50-2000.
 ;At reduced resolution, can be used to over m/z 3000.
 ;NOT RECOMMENDED FOR PROTEIN WORK. USE MYO, MYOTRP or TRP.

Updated 20 April '95

22.9898	100
84.9118	100
172.8840	100
322.7782	100
472.6725	100
622.5667	100
772.4610	100
922.3552	100
1072.2494	100
; 1222.1437	100
; 1372.0379	100
; 1521.9321	100
; 1671.8264	100
; 1821.7206	100
; 1971.6149	100
; 2121.5091	100
; 2271.4033	100
; 2421.2976	100
; 2571.1918	100
; 2721.0861	100
; 2870.9803	100
; 3020.8745	100
; 3170.7688	100
; 3320.6630	100
; 3470.5572	100
; 3620.4515	100
; 3770.3457	100
; 3920.2400	100

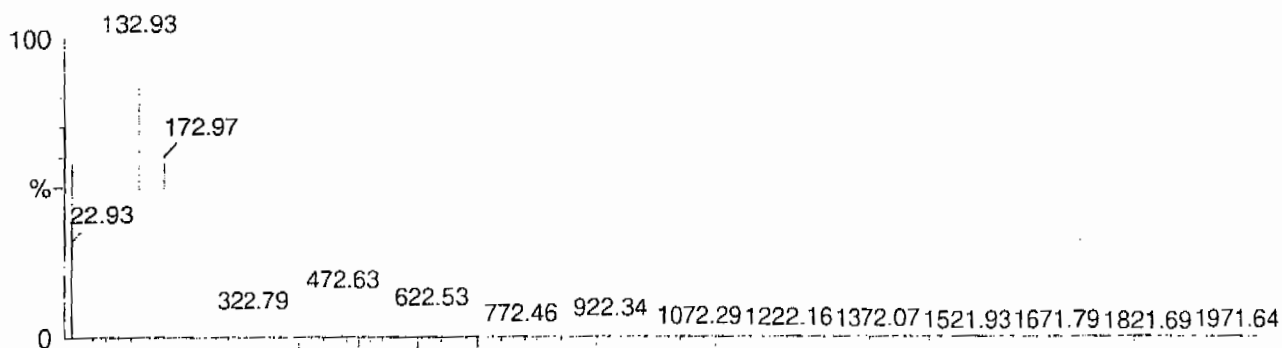
Calibration Report - MS1 Static

Page 1 of 1

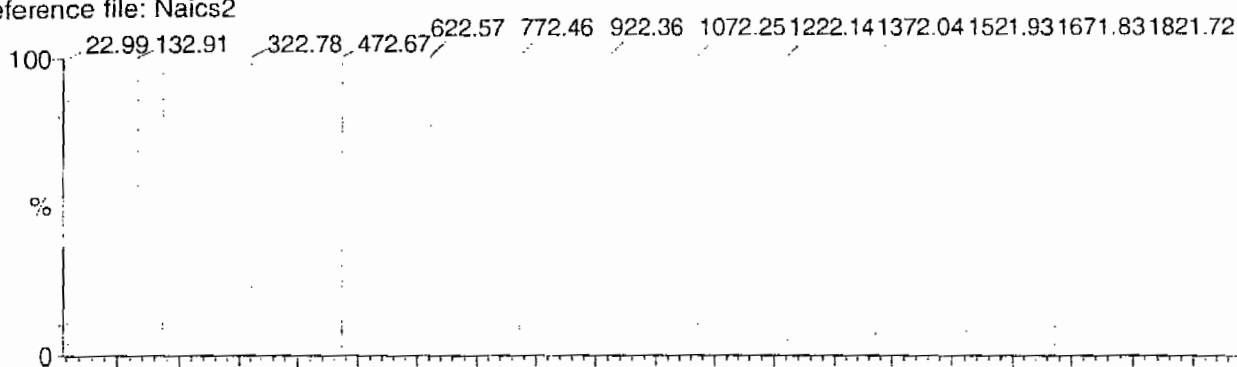
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

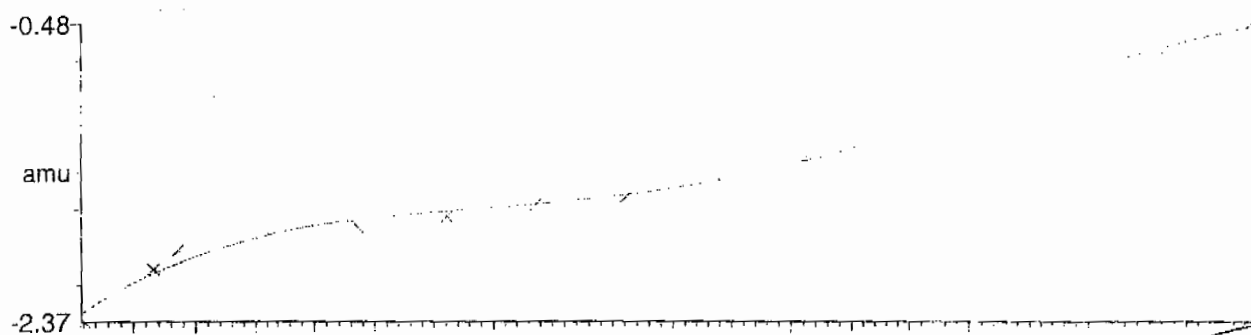
15 matches of 15 tested references



Reference file: Naics2

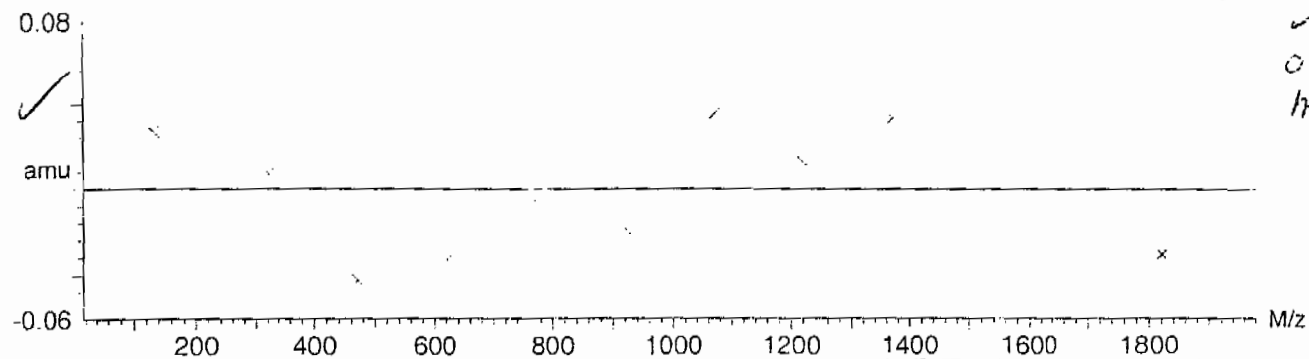


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-1.673470 \times 10^{-9} \pm 0.036953$



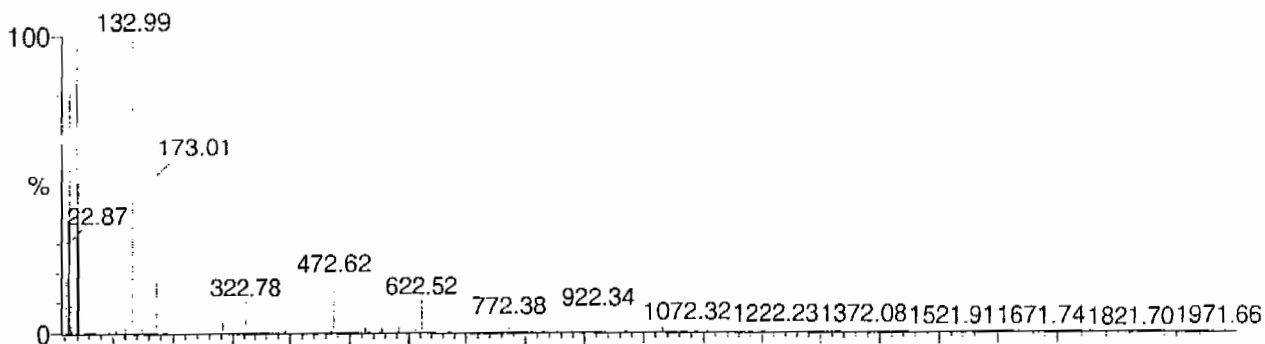
Calibration Report - MS1 Scanning

Page 1 of 1

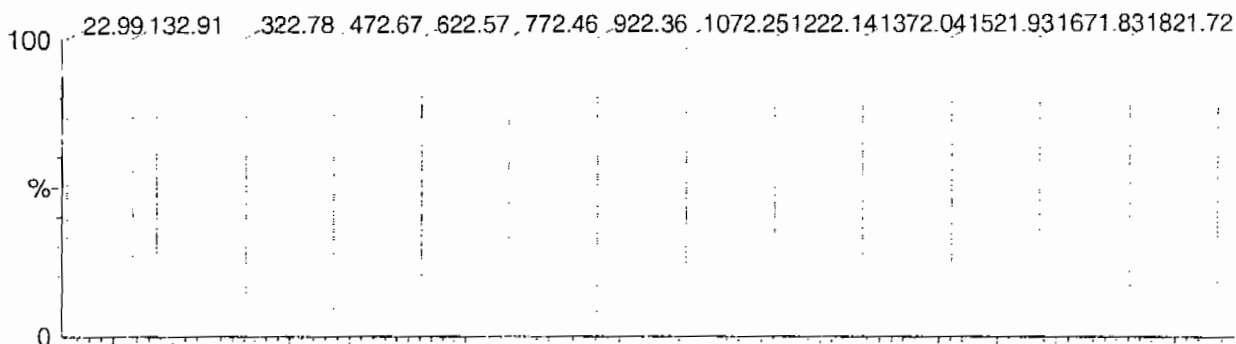
Printed: Fri Aug 25 10:51:06 2006

Data file: SCNMS1 - Calibrated

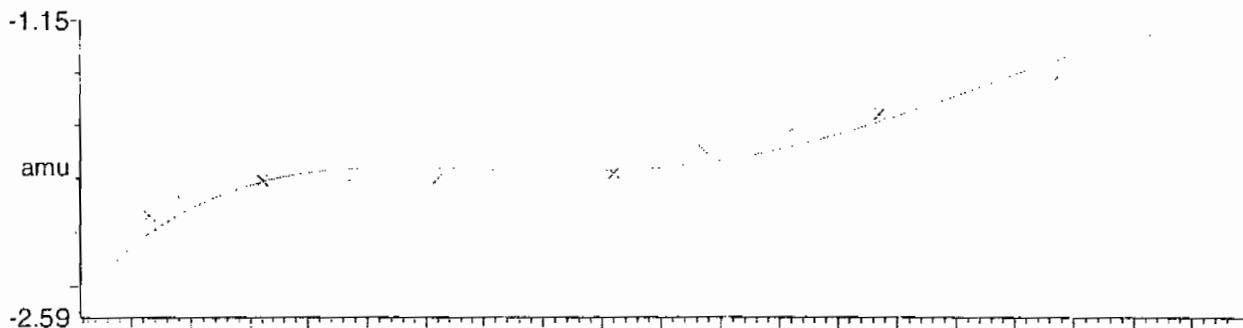
15 matches of 15 tested references



Reference file: Naics2

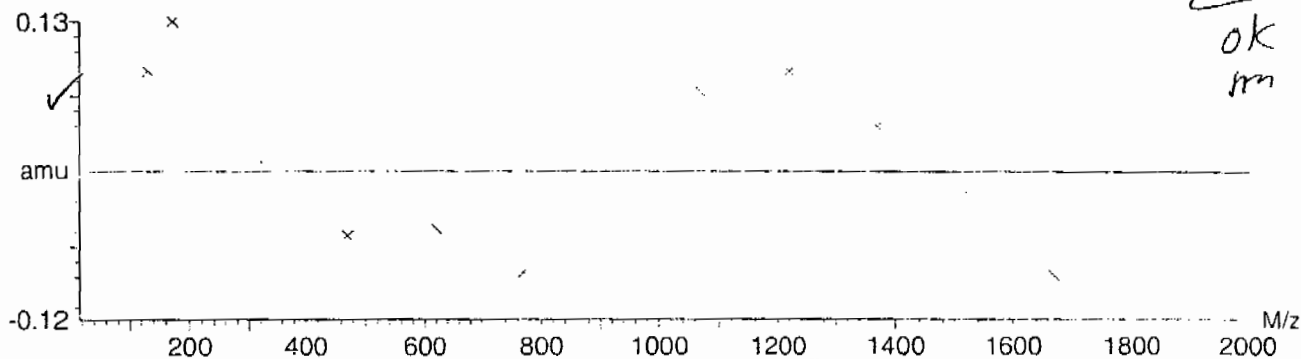


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-5.432715 \times 10^{-9} \pm 0.069858$



ok
mn

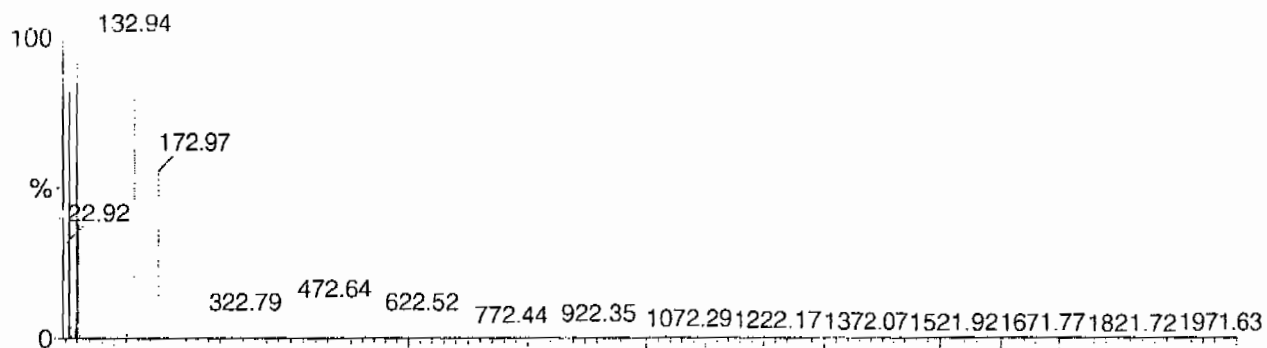
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

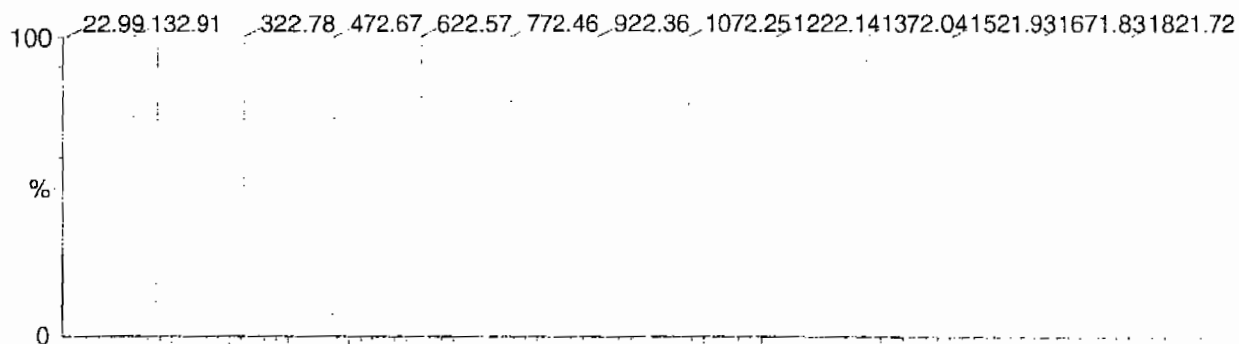
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

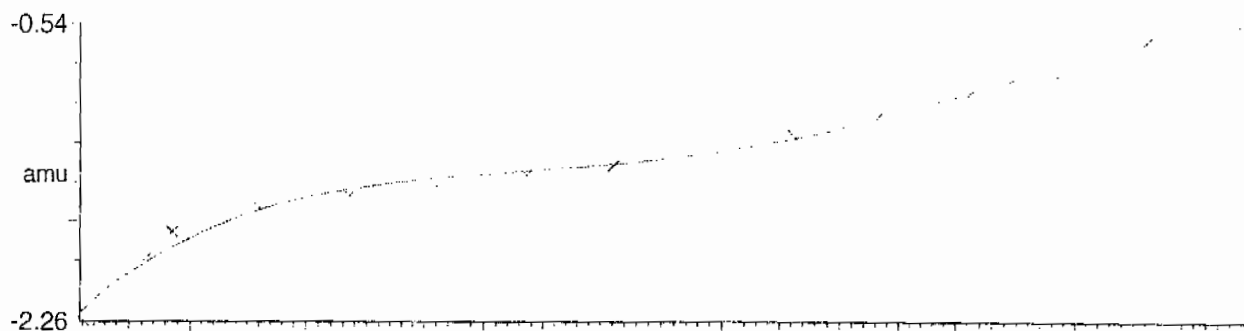
15 matches of 15 tested references



Reference file: Naics2

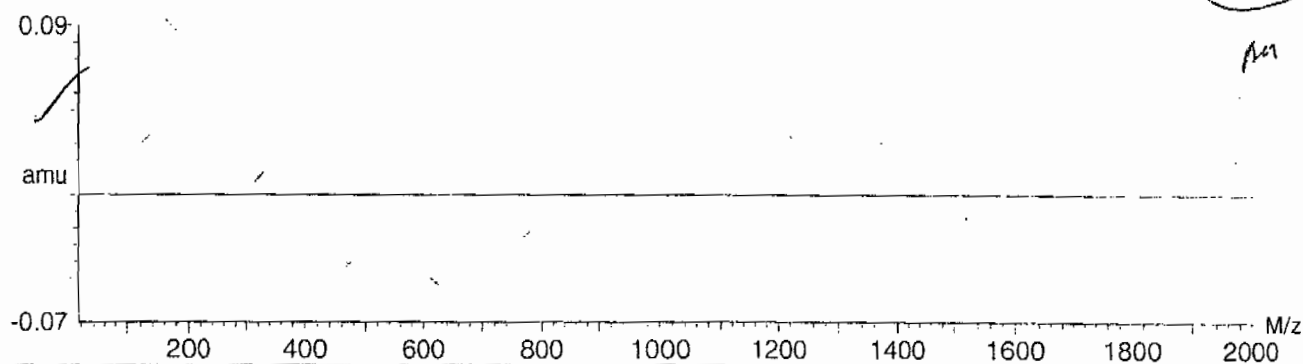


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $3.486639 \times 10^{-9} \pm 0.040487$



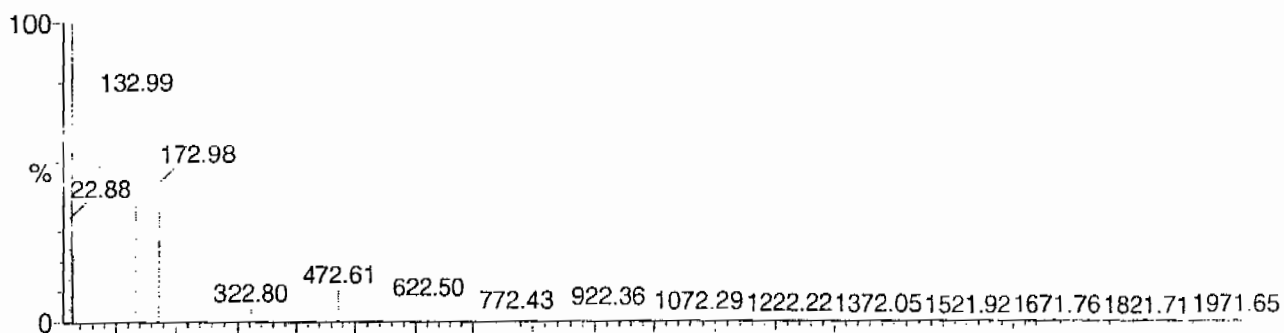
Calibration Report - MS2 Static

Page 1 of 1

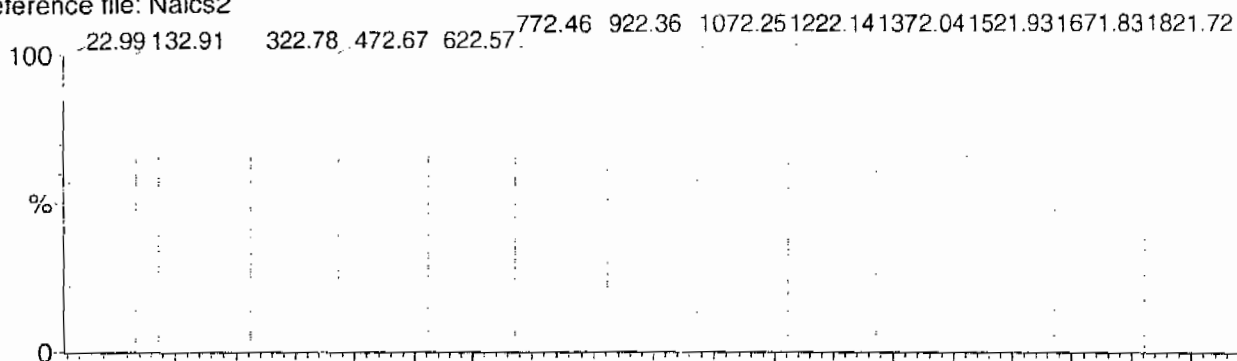
Printed: Fri Aug 25 10:52:54 2006

Data file: STATMS2 - Calibrated

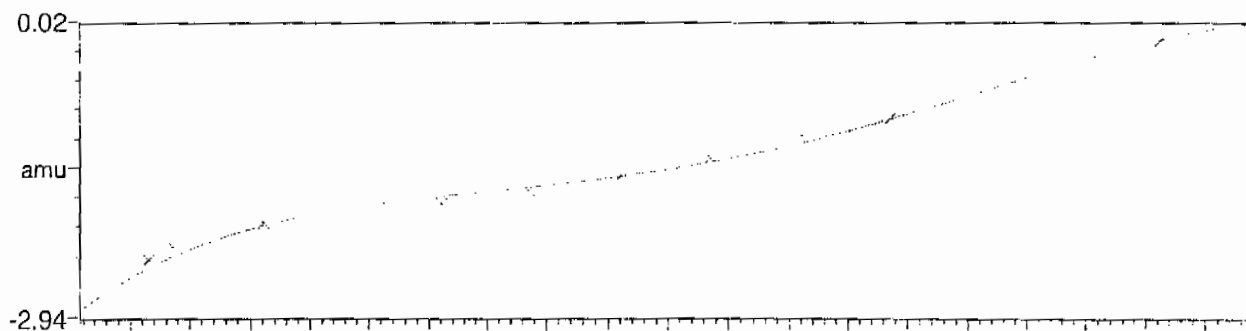
15 matches of 15 tested references



Reference file: Naics2

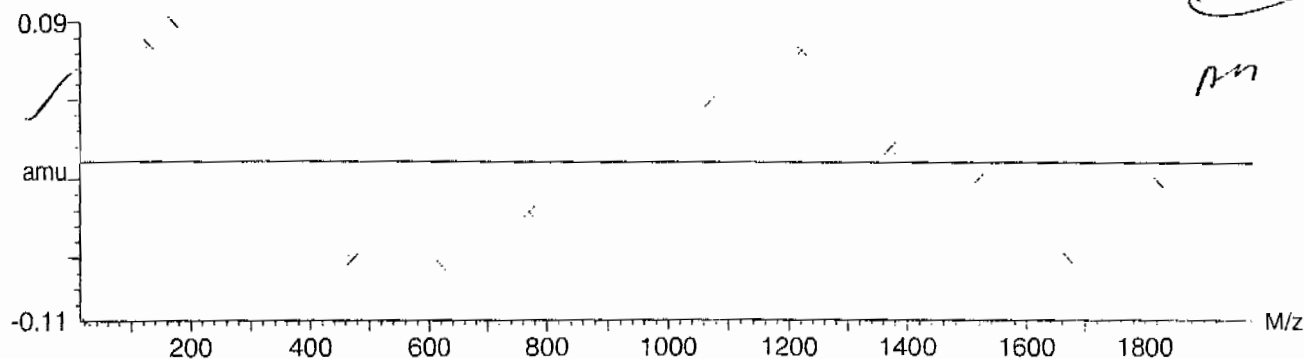


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $2.048910 \times 10^{-9} \pm 0.057803$



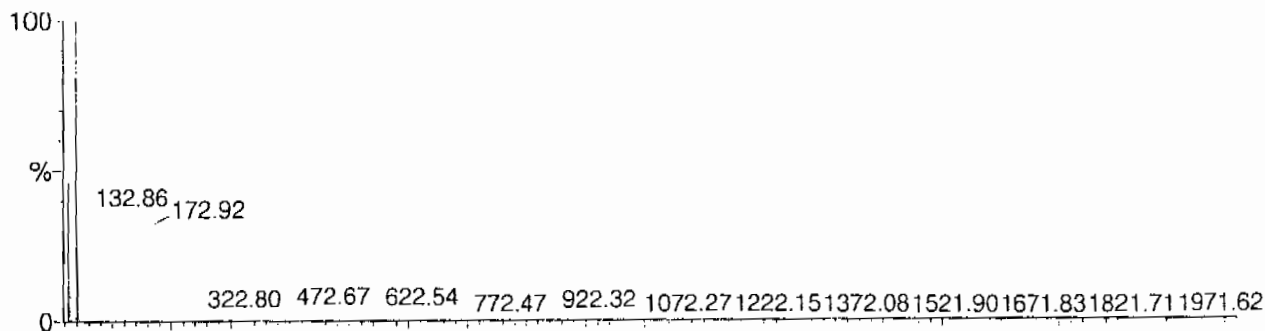
Calibration Report - MS2 Scanning

Page 1 of 1

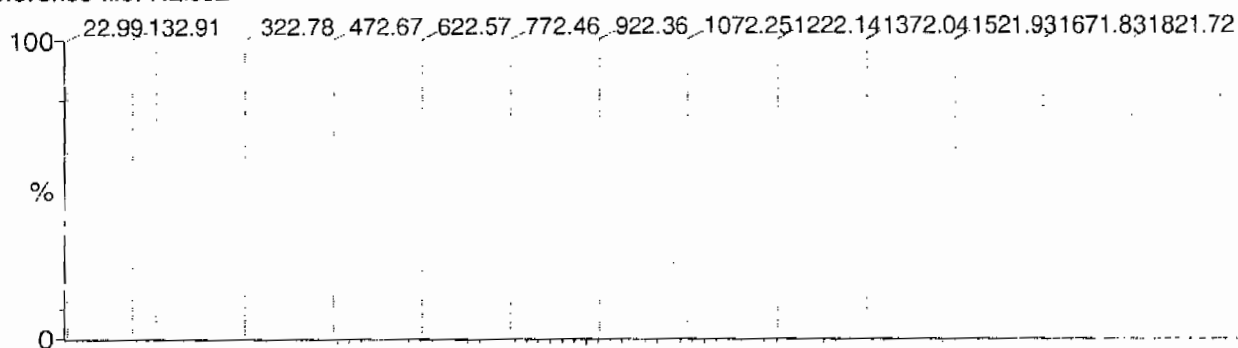
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

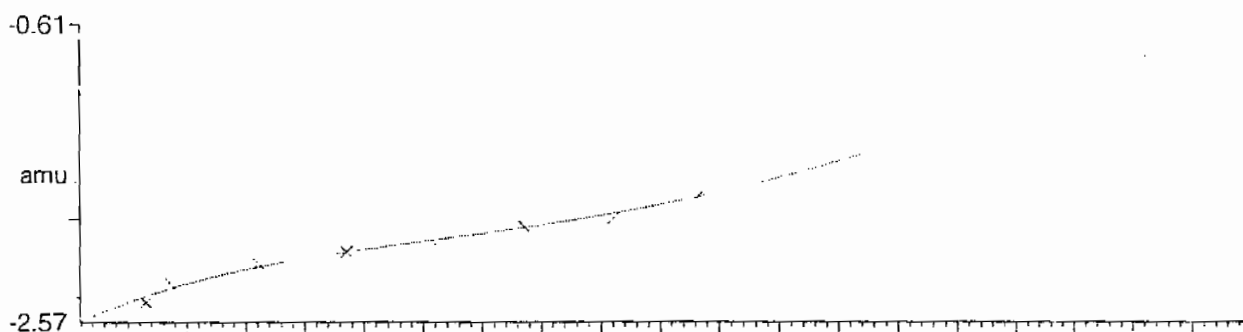
14 matches of 15 tested references



Reference file: Naics2

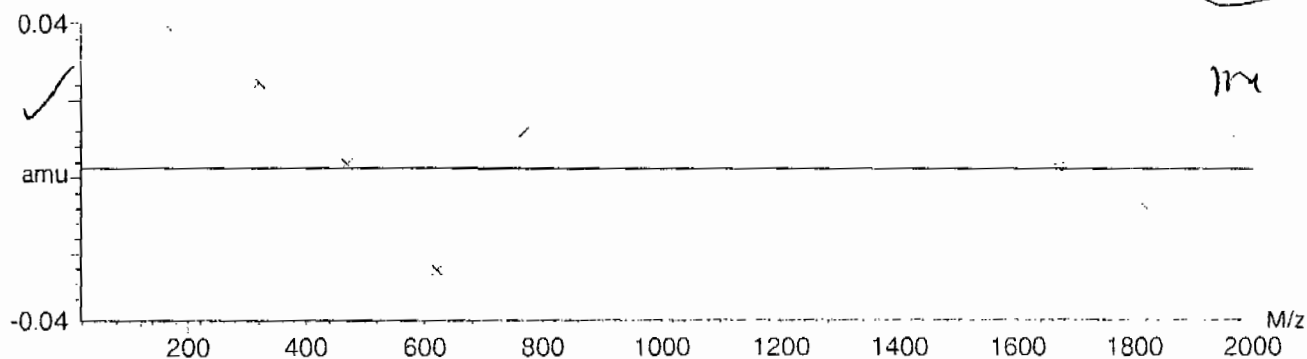


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-2.623502e-9 \pm 0.025622$



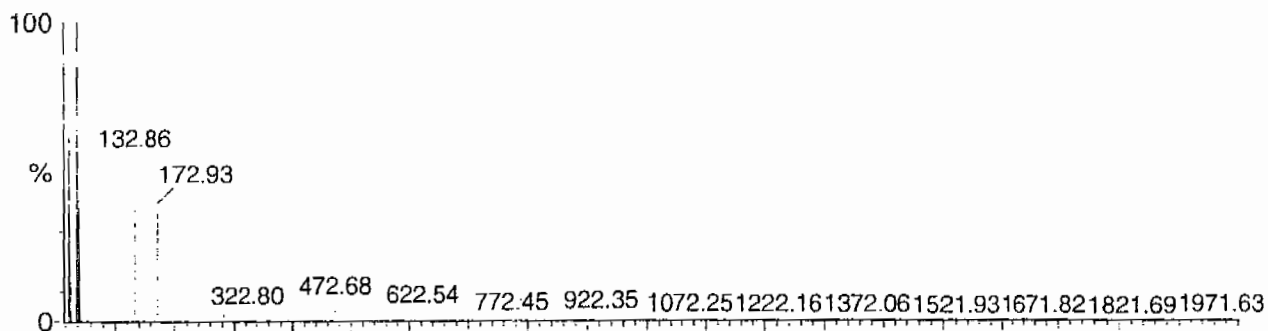
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

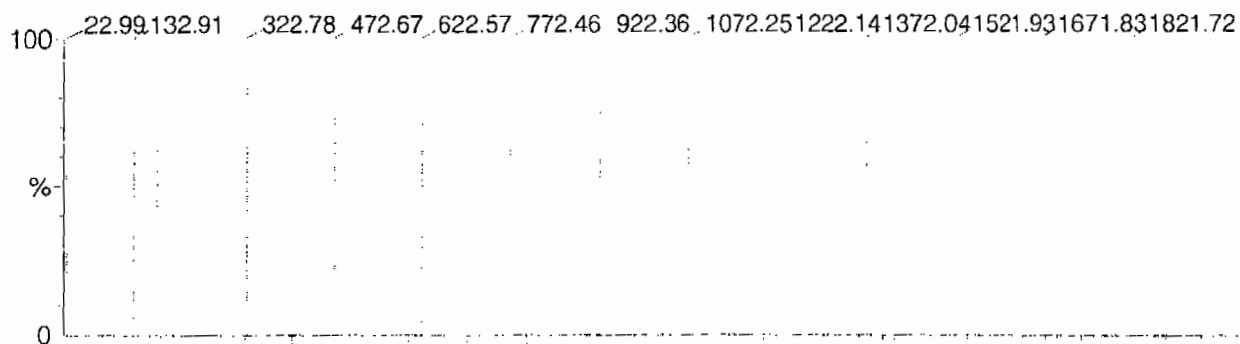
Printed: Fri Aug 25 10:54:54 2006

Data file: FASTMS2 - Calibrated

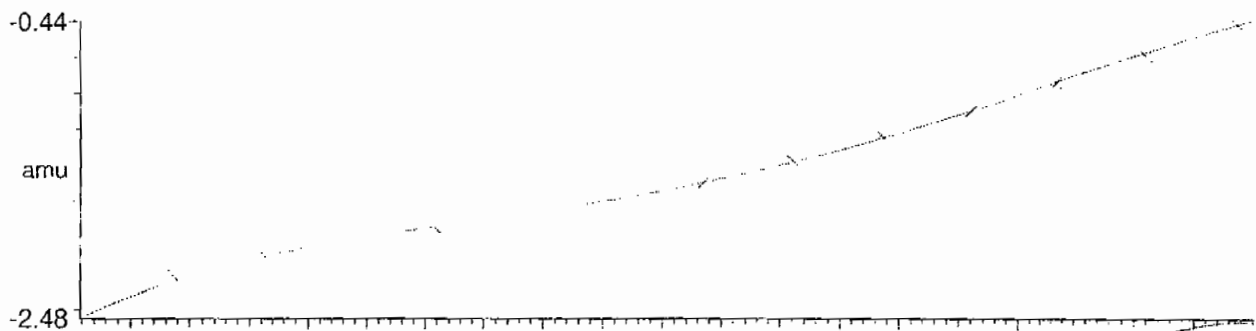
14 matches of 15 tested references



Reference file: Naics2

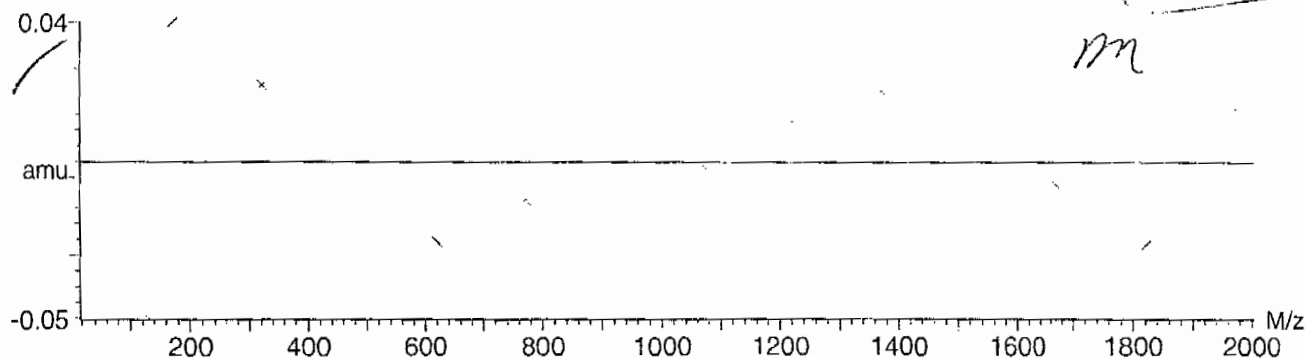


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-6.785350 \times 10^{-9} \pm 0.023134$

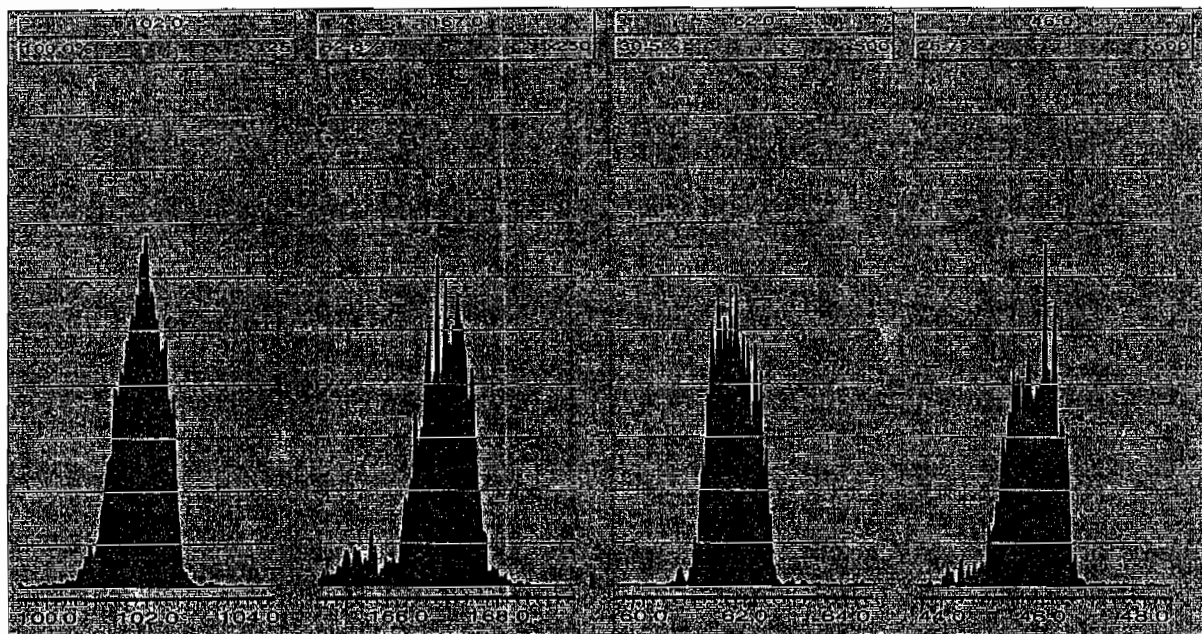


Quattro Micro Tune Parameters

Page 1

Parameter File: C:\MASSLYNX\NEW_EXP.PROVACQUDB\explosives04.IPR

Printed : Tue Mar 23 09:07:10 2010



High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Instrument ID: LCMSMS

	Analysis Date/Time	GEL Data File	IS1 (DNB) (Area) #	RT (min) #	IS2 (DNT) (Area) #	RT2 (min) #
			5504.273	12.072	34430.583	17.449
Upper Limit			7155.5549	12.572	44759.7579	17.949
Lower Limit			3852.9911	11.572	24101.4081	16.949
MB for batch 950086	23-mar-10 17:30	EXP0323018a	5750.09	12.067	35516.6	17.444
LCS for batch 950086	23-mar-10 17:59	EXP0323019a	5406.4	12.067	32568.6	17.443
RE15-10-8354	23-mar-10 18:29	EXP0323020a	5108.41	12.067	32250.7	17.444
RE15-10-8354(246434002MS)	23-mar-10 18:58	EXP0323021a	6226.52	12.067	36138.2	17.444
RE15-10-8354(246434002MSD)	23-mar-10 19:28	EXP0323022a	6619.14	12.067	39536.9	17.444
RE15-10-8356	23-mar-10 21:26	EXP0323026a	7148.37	12.067	41341	17.444
RE15-10-8353	23-mar-10 21:55	EXP0323027a	5791.41	12.067	36961	17.422
RE15-10-8352	23-mar-10 22:25	EXP0323028a	6110.3	12.067	37094.4	17.444
RE15-10-8355	23-mar-10 22:54	EXP0323029a	6759.61	12.067	38653.9	17.444
RE15-10-8351	23-mar-10 23:24	EXP0323030a	6055.32	12.067	37914.8	17.444
RE15-10-8350	23-mar-10 23:53	EXP0323031a	6285.84	12.064	36151.6	17.433
RE15-10-8357	24-mar-10 00:23	EXP0323032a	6078.89	12.067	38094.1	17.422
RE15-10-8338	24-mar-10 00:52	EXP0323033a	6289.31	12.067	39334.9	17.444
RE15-10-8336	24-mar-10 01:22	EXP0323034a	5962.35	12.067	37544.1	17.422
RE15-10-8339	24-mar-10 01:51	EXP0323035a	6811.63	12.067	41057	17.422
RE15-10-8337	24-mar-10 03:49	EXP0323039a	6514.13	12.032	40818.7	17.422
RE15-10-8375	24-mar-10 04:19	EXP0323040a	6313.8	12.065	38766.7	17.433
RE15-10-8374	24-mar-10 04:48	EXP0323041a	6736.27	12.03	40128.5	17.412

IS1 (DNB) = 1,3-Dinitrobenzene-d4

IS2 (DNT) = 2,6-Dinitrotoluene-d3

Area Upper Limit = + 30% of average IS area from multipoint calibration

Area Lower Limit = - 30% of average IS area from multipoint calibration

RT Upper Limit = +0.5 of average multipoint RT

RT Lower Limit = -0.5 of average multipoint RT

Column used to flag values outside QC limits with an asterisk

* Values outside of QC limits

SAMPLE DATA

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8354

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434002

Sample Amount 2

Moisture: 22.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323020a

Date Analyzed: 23-MAR-10 18:29

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument	X	<u>Concentrated Extract Volume</u>	X	Dilution
Value		<u>Sample Amount</u>		Factor

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323020a

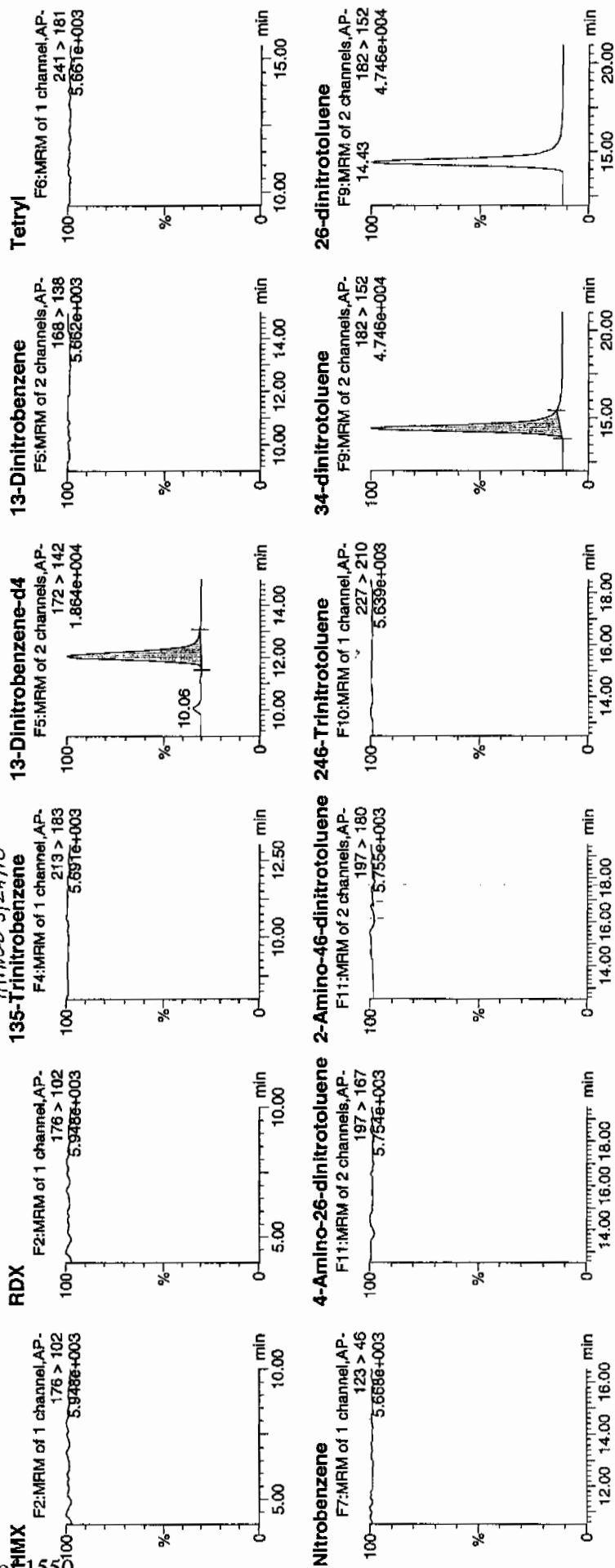
Date: 23-Mar-2010

Time: 18:29:14

ID: 246434002

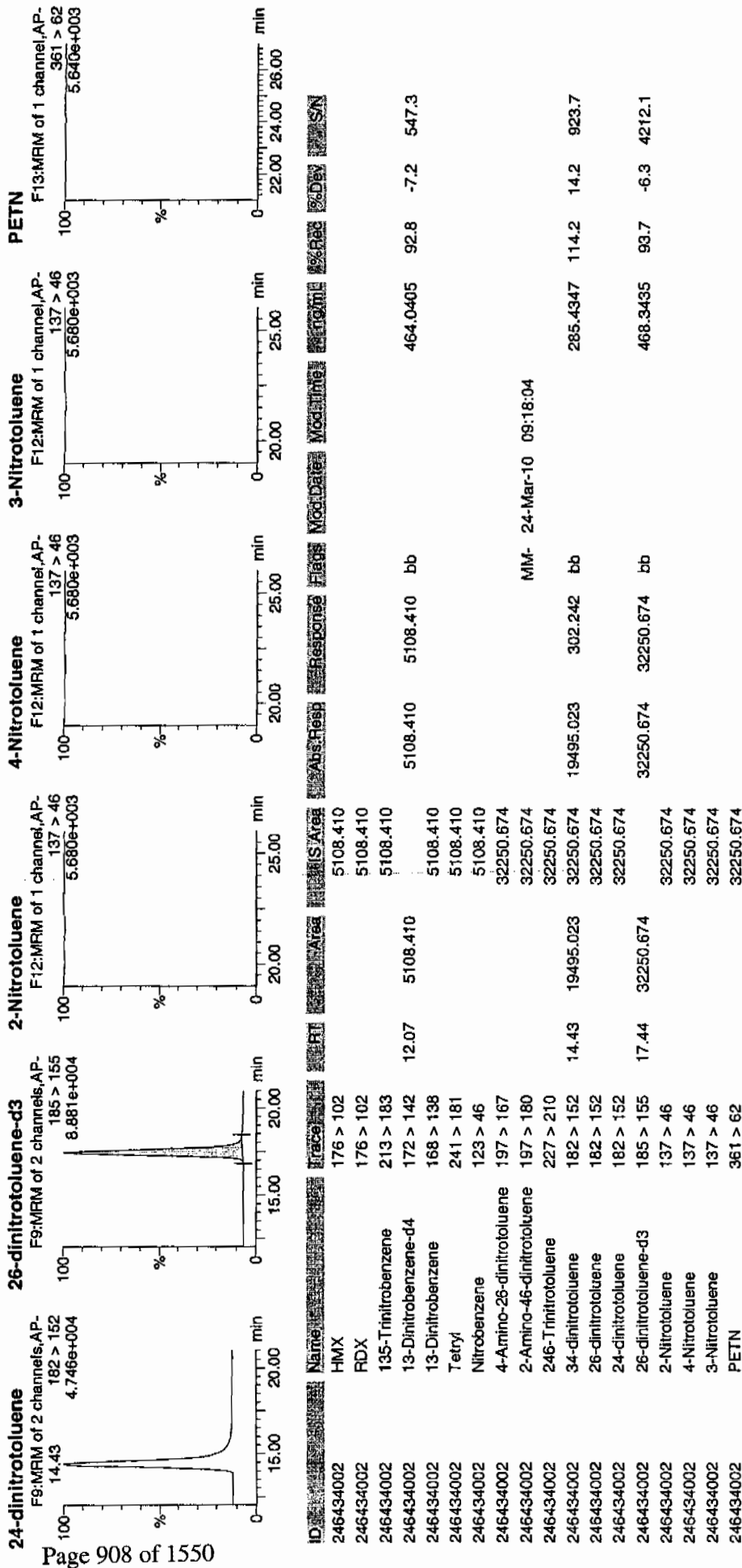
Vial: 2:1,C

AP-17
 3/24/10
 LAL
 MS/2
 HPLC 3/24/10



4/11/10
 03/24/10

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8354

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434002

Sample Amount 2

Moisture: 22.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010129.wiff

Date Analyzed: 02-MAR-10 18:38

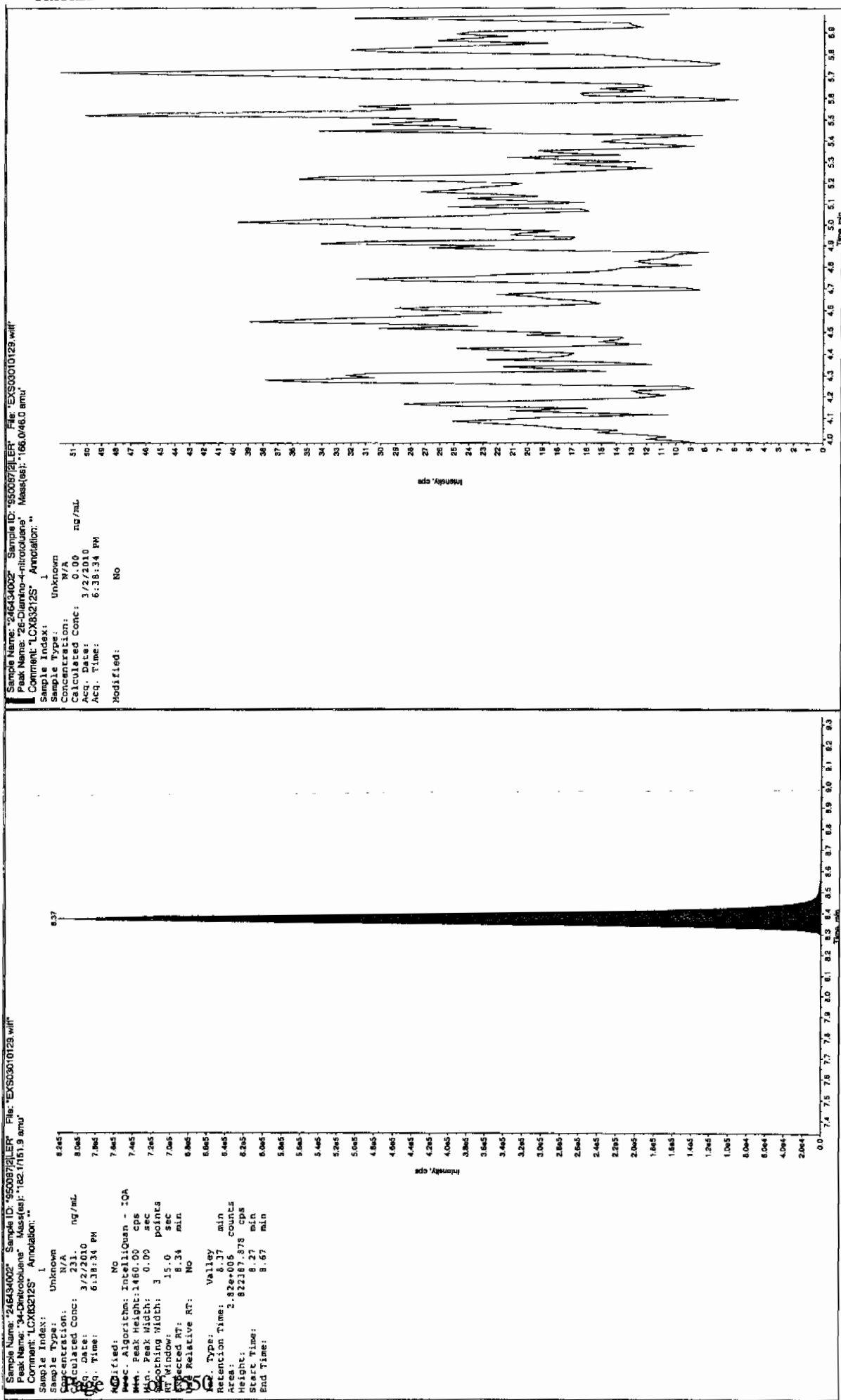
Units: ug/kg

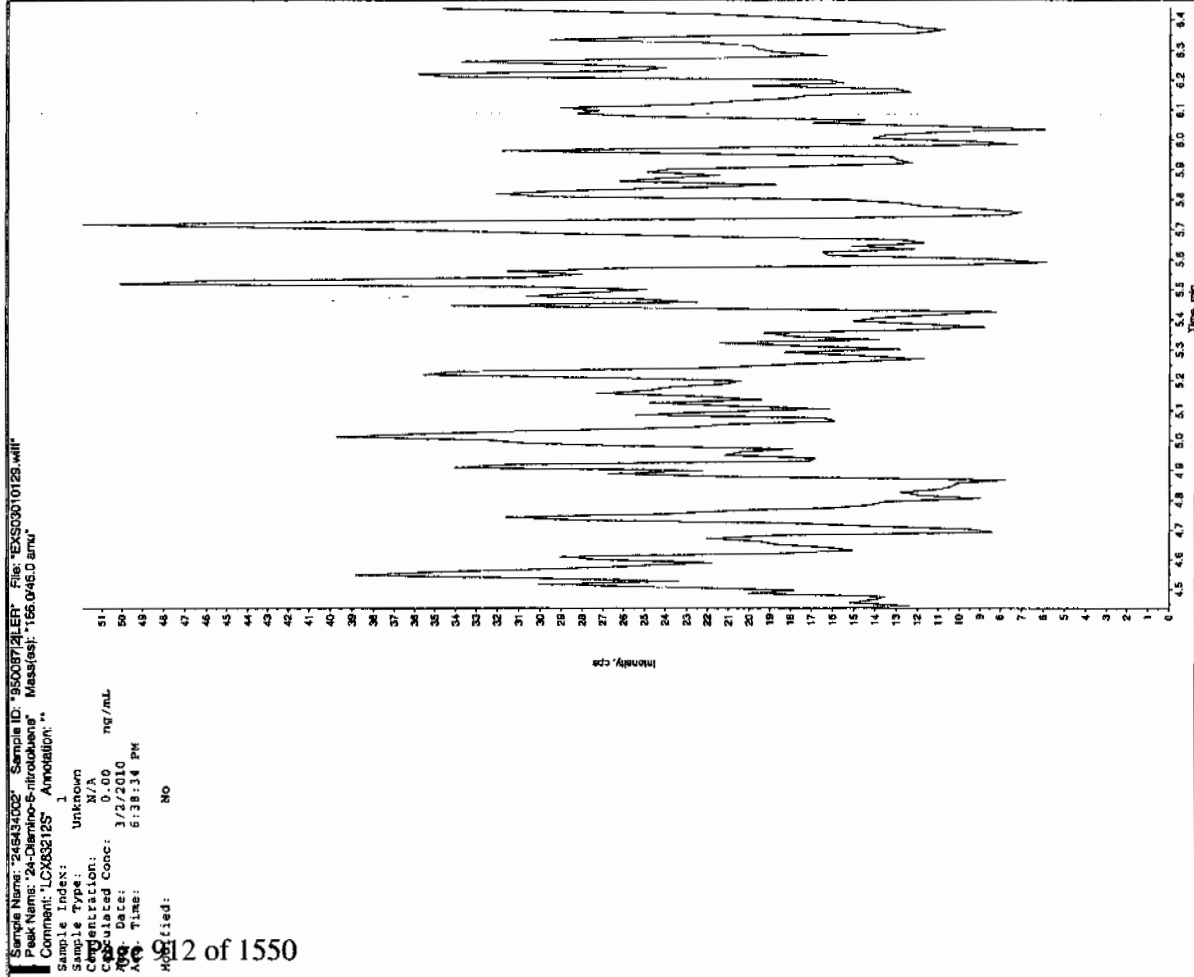
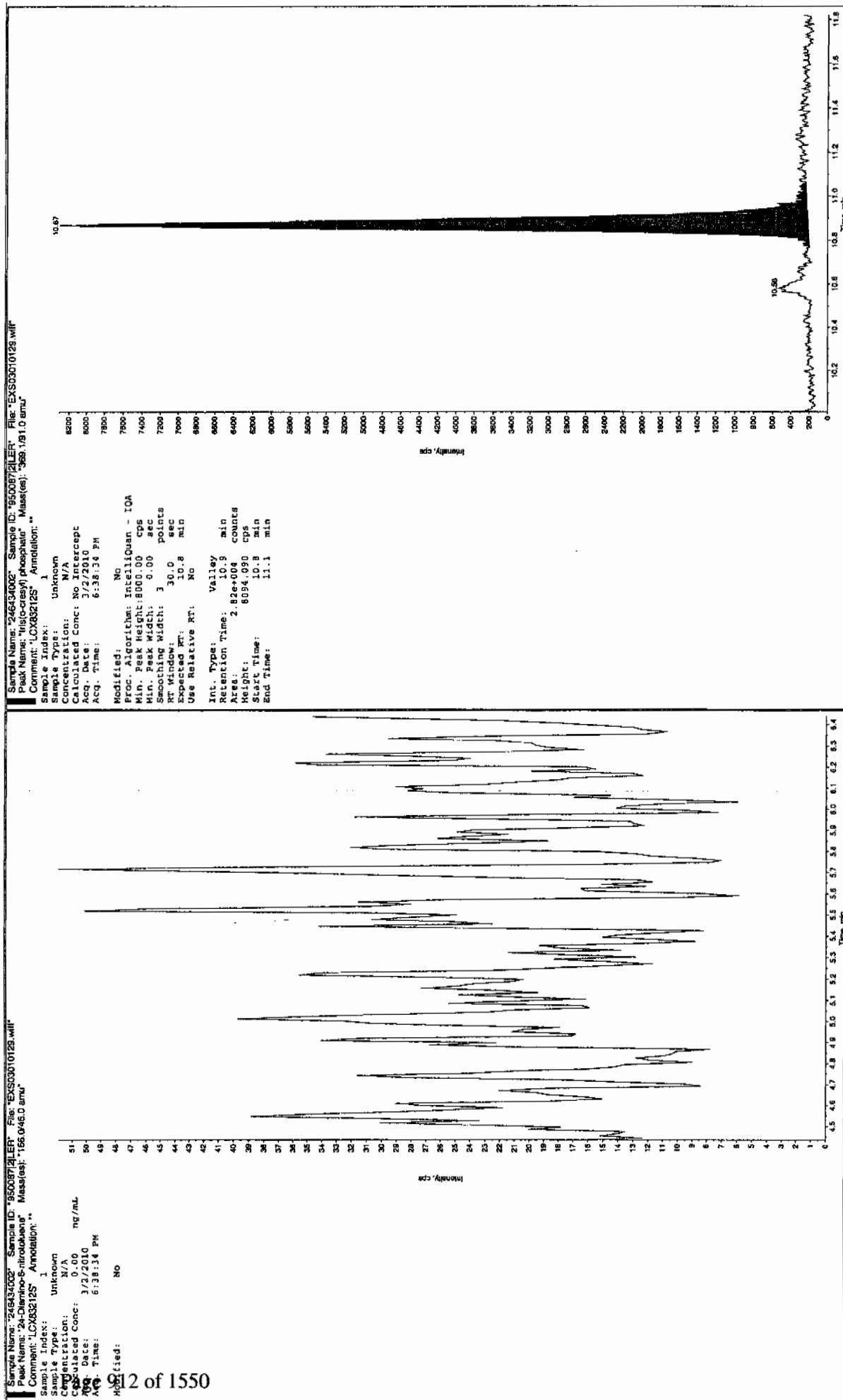
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor







1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8356

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434003

Sample Amount 2

Moisture: 14.7

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323026a

Date Analyzed: 23-MAR-10 21:26

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report
 GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323026a

Date: 23-Mar-2010

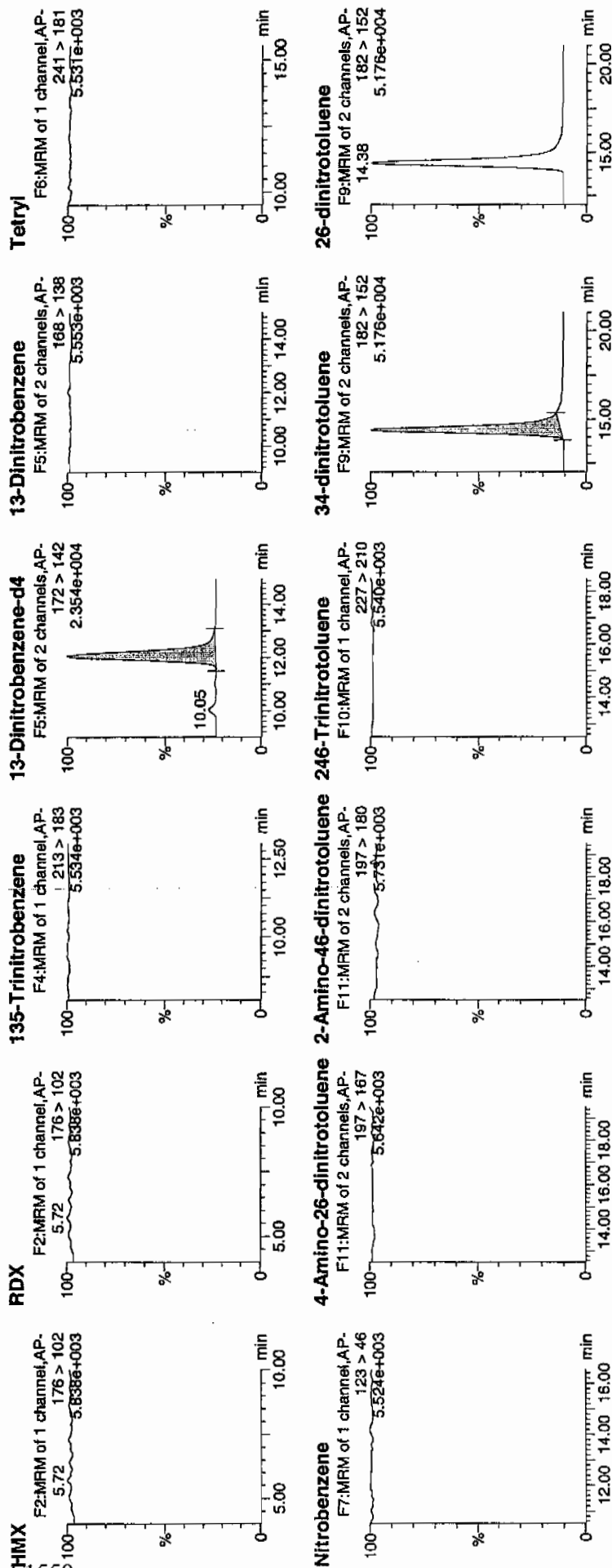
Time: 21:26:12

ID: 246434003

Vial: 2:1,F

4/24/10
 3/24/10

1950067 (803) 121

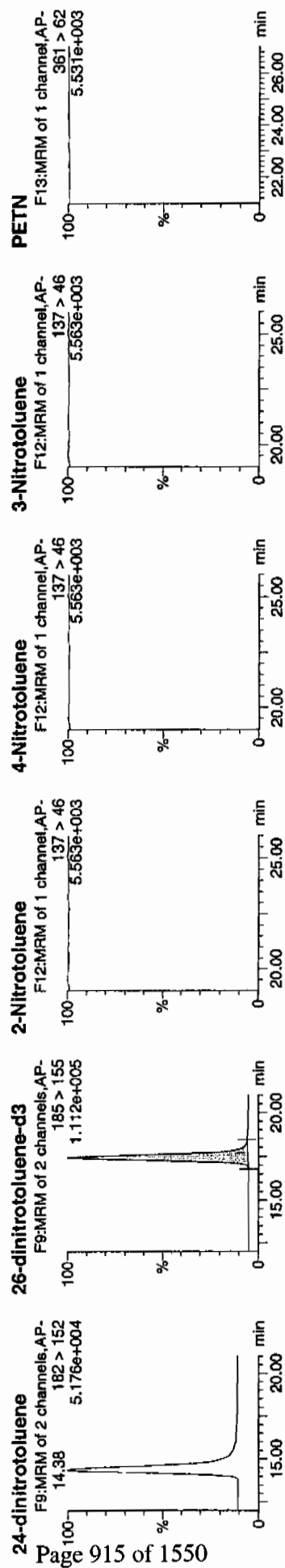


4/24/10
 03/24/10

Quantify Sample Report

Century Genealogy, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



ID	Name	Trace	RT	Area	Peak Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	Int. Conc	% Rec	% Dev	YSN
246434003	HMX	176 > 102			7148.371									
246434003	RDX	176 > 102			7148.371									
246434003	135-Trinitrobenzene	213 > 183			7148.371									
246434003	13-Dinitrobenzene-d4	172 > 142	12.07	7148.371		7148.371	7148.371	bb			649.3475	129.9	29.9	442.9
246434003	13-Dinitrobenzene	168 > 138			7148.371									
246434003	Tetryl	241 > 181			7148.371									
246434003	Nitrobenzene	123 > 46			7148.371									
246434003	4-Amino-26-dinitrotoluene	197 > 167			41341.027									
246434003	2-Amino-46-dinitrotoluene	197 > 180			41341.027									
246434003	246-Trinitrotoluene	227 > 210			41341.027									
246434003	34-dinitrotoluene	182 > 152	14.38	21810.152	41341.027	21810.152	263.783	bb			249.1147	99.6	-0.4	1317.5
246434003	26-dinitrotoluene	182 > 152			41341.027									
246434003	24-dinitrotoluene	182 > 152			41341.027									
246434003	26-dinitrotoluene-d3	185 > 155	17.44	41341.027		41341.027	41341.027	bb			600.3534	120.1	20.1	3587.1
246434003	2-Nitrotoluene	137 > 46			41341.027									
246434003	4-Nitrotoluene	137 > 46			41341.027									
246434003	3-Nitrotoluene	137 > 46			41341.027									
246434003	PETN	361 > 62			41341.027									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8356

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434003

Sample Amount 2

Moisture: 14.7

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010132.wiff

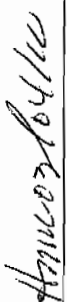
Date Analyzed: 02-MAR-10 19:25

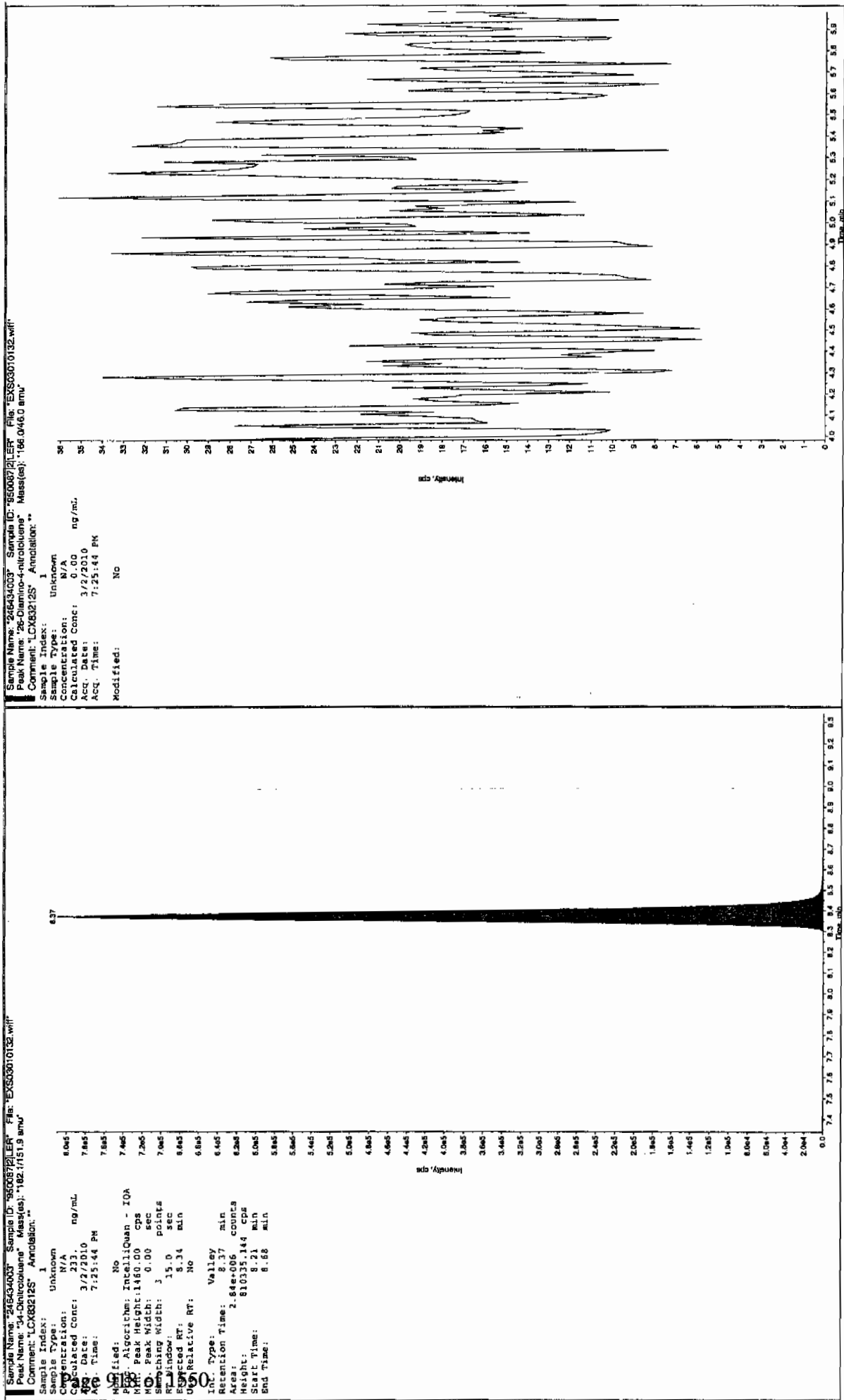
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

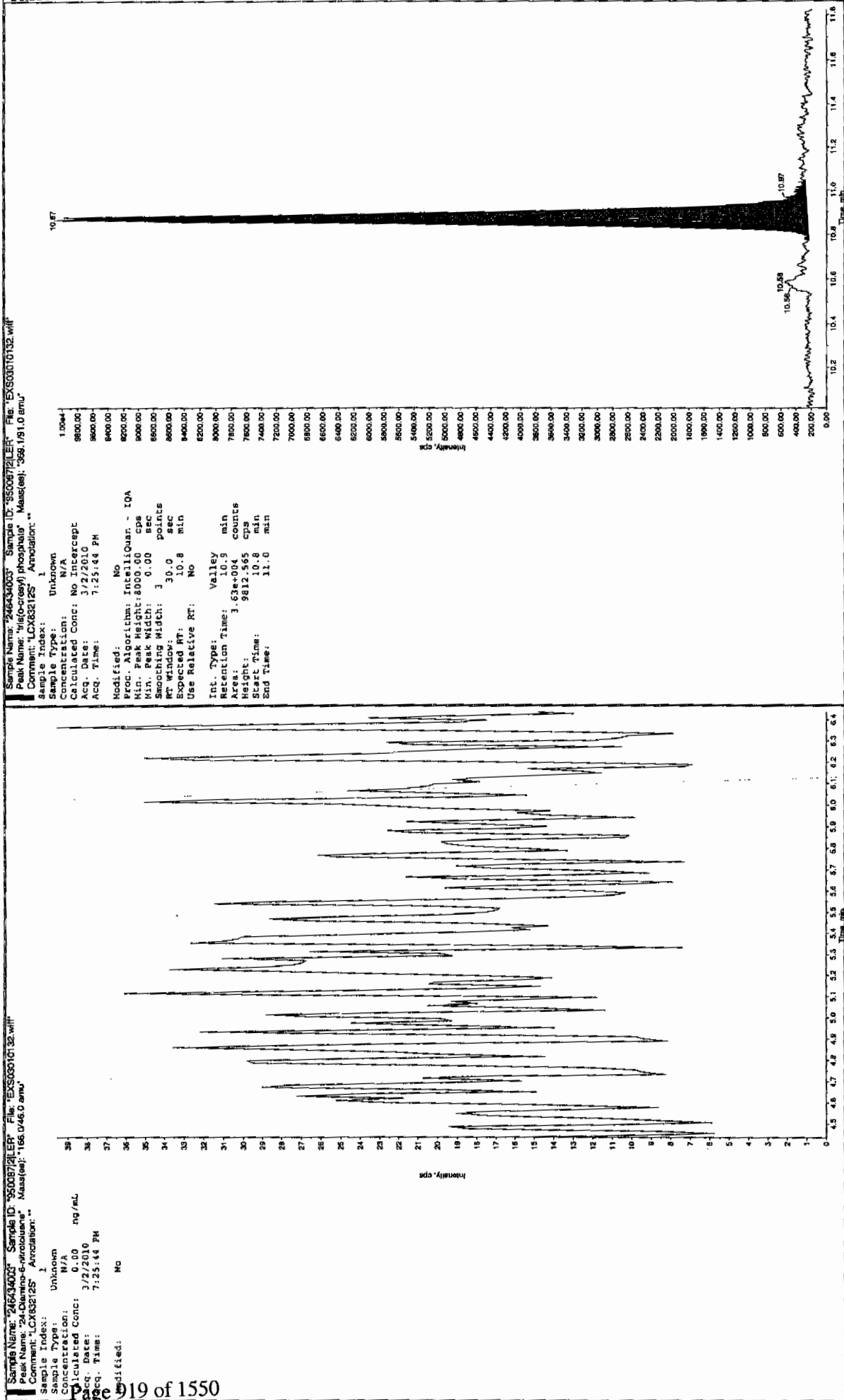
*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8353

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434004

Sample Amount 2

Moisture: 13.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323027a

Date Analyzed: 23-MAR-10 21:55

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument	X	<u>Concentrated Extract Volume</u>	X	Dilution
Value		<u>Sample Amount</u>		Factor

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qtd, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323027a

Date: 23-Mar-2010

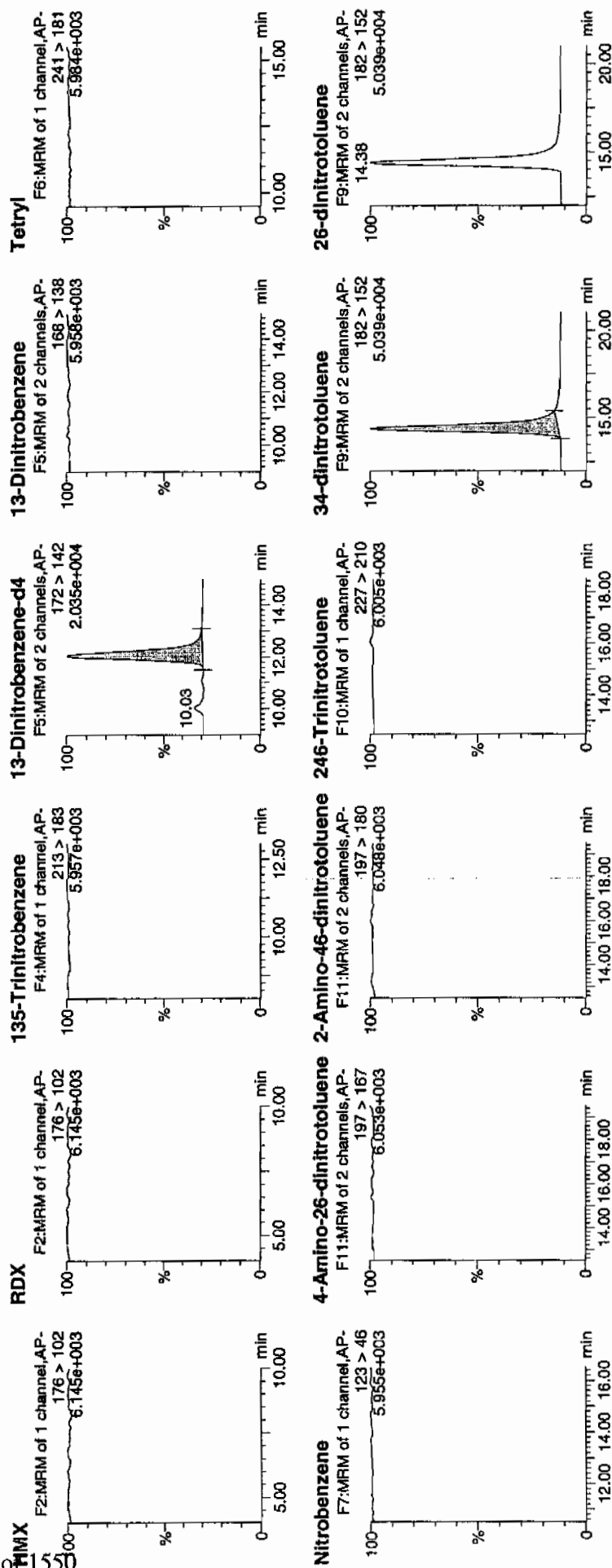
Time: 21:55:43

ID: 246434004

Vial: 2:2,A

4.577
3/24/10

1950087 / 21



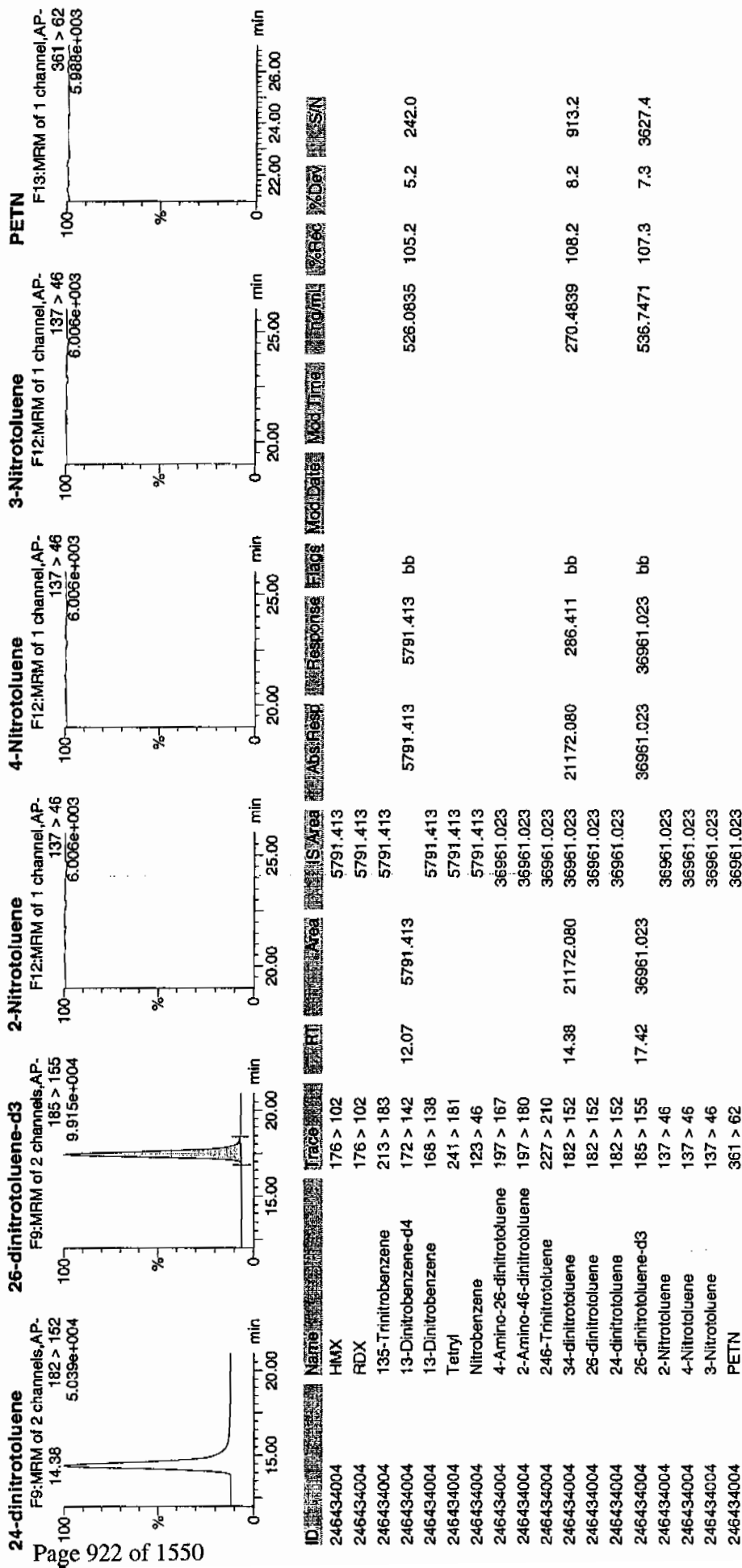
4.577
3/24/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 54 of 99

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8353

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434004

Sample Amount 2

Moisture: 13.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010133.wiff

Date Analyzed: 02-MAR-10 19:41

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

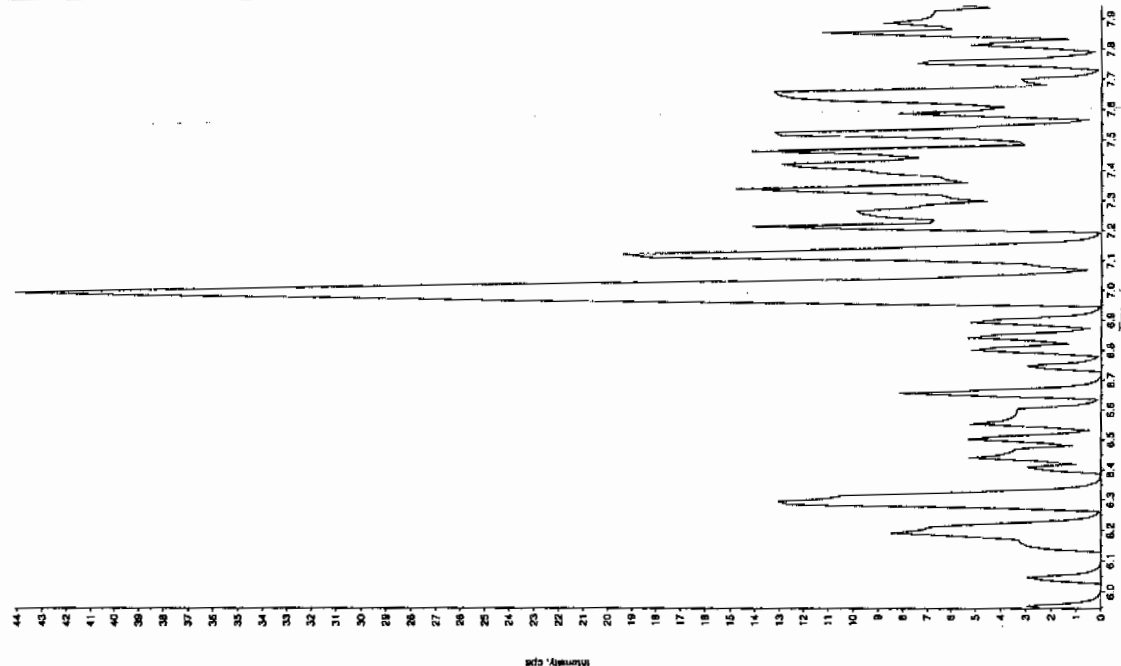
*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

2/12/10

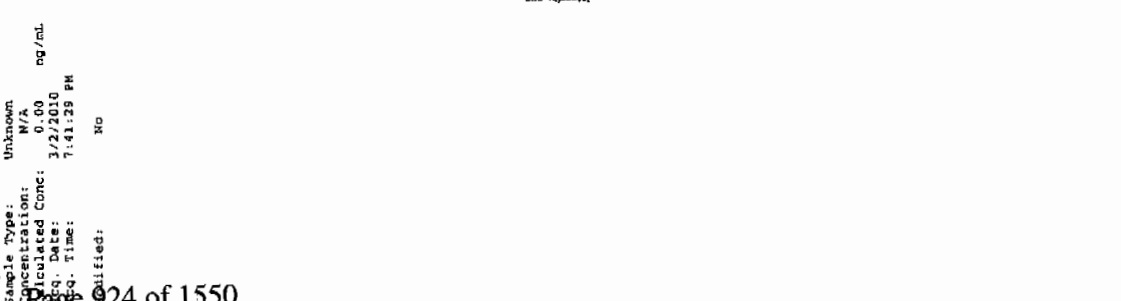
Sample Name: "24634004" Sample ID: "9500070133.wiff"
 Peak Name: "3S-Ochlorophyll" Mass(es): "182.045.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/2/2010
 Acq. Date: 7:41:29 PM
 Acq. Time: 7:41:29 PM
 Modified: No

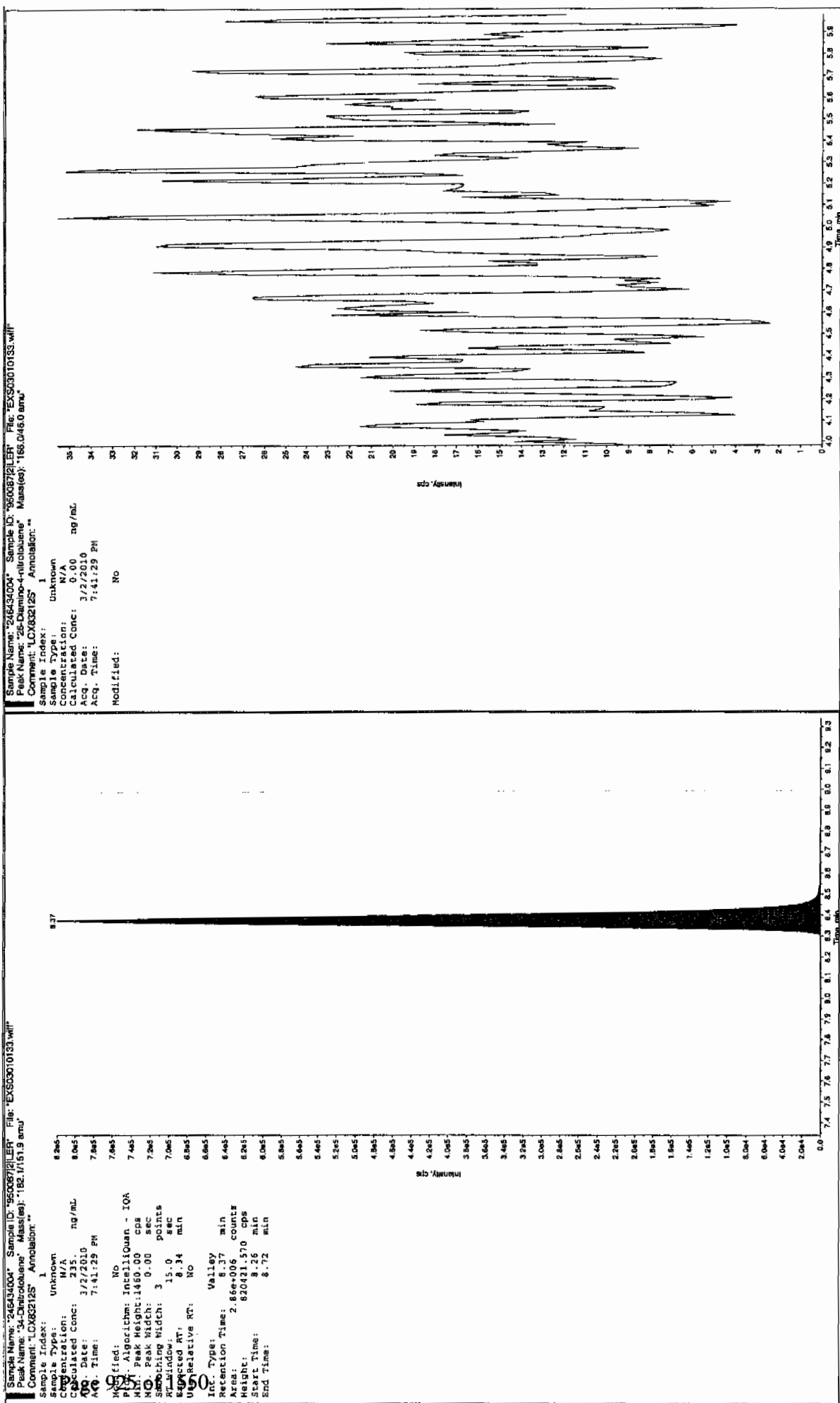


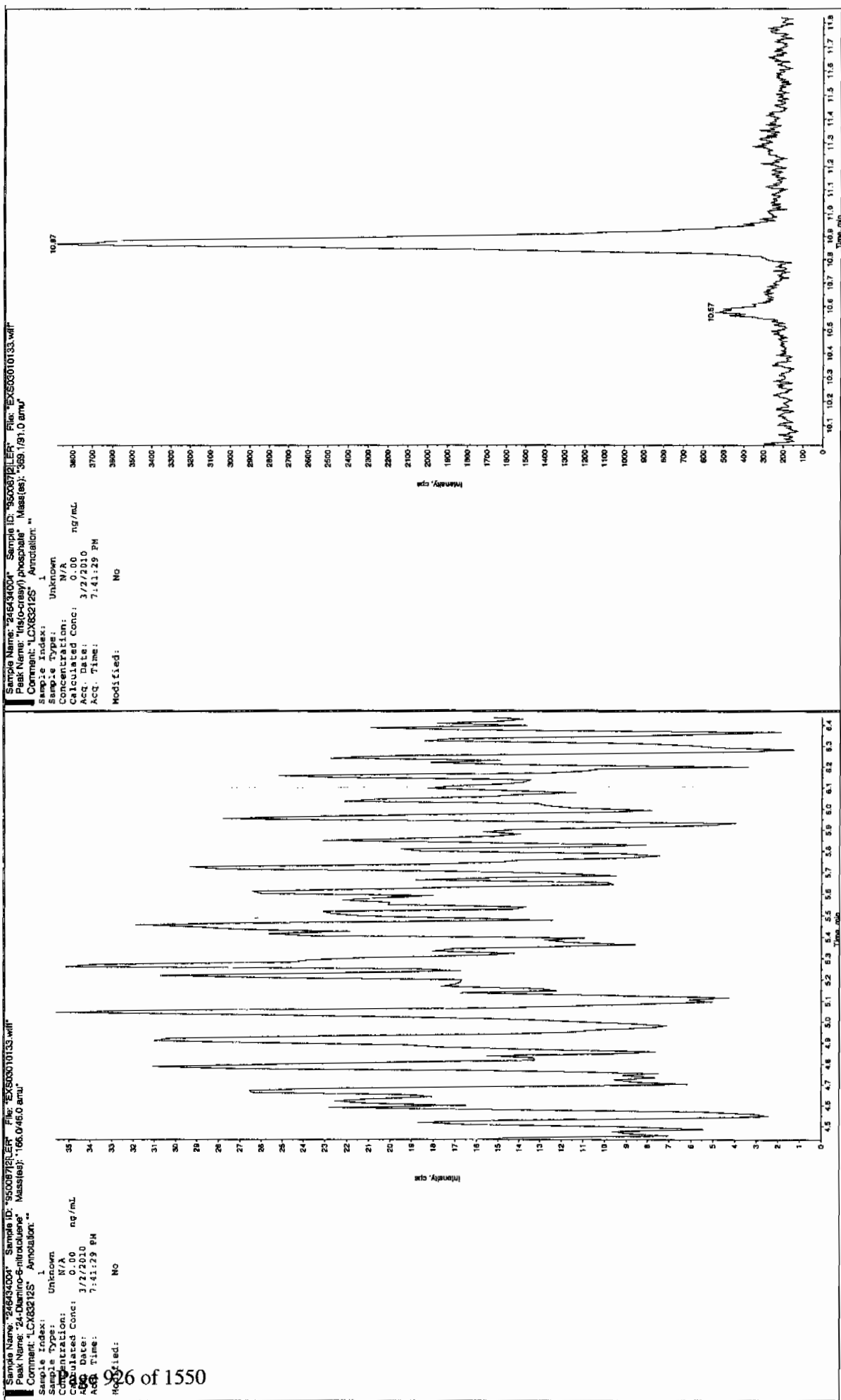
Sample Name: "24634004" Sample ID: "9500070133.wiff"
 Peak Name: "TATB" Mass(es): "267.2204.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/2/2010
 Acq. Date: 7:41:29 PM
 Acq. Time: 7:41:29 PM
 Modified: No



2/12/10





936 of 1550

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8352

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434005

Sample Amount 2

Moisture: 23.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323028a

Date Analyzed: 23-MAR-10 22:25

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323028a

Date: 23-Mar-2010

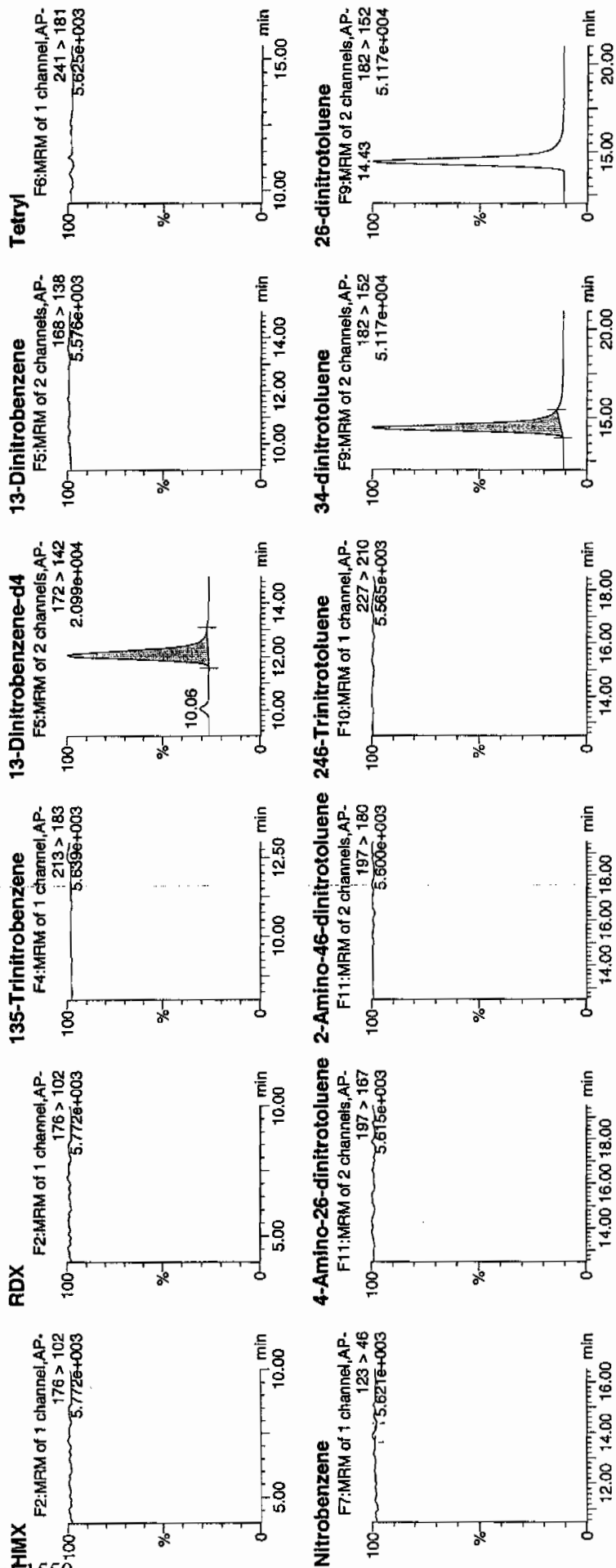
Time: 22:25:12

ID: 246434005

Vial: 2:2,B

Not
3/27/10

121
950087 / 50323



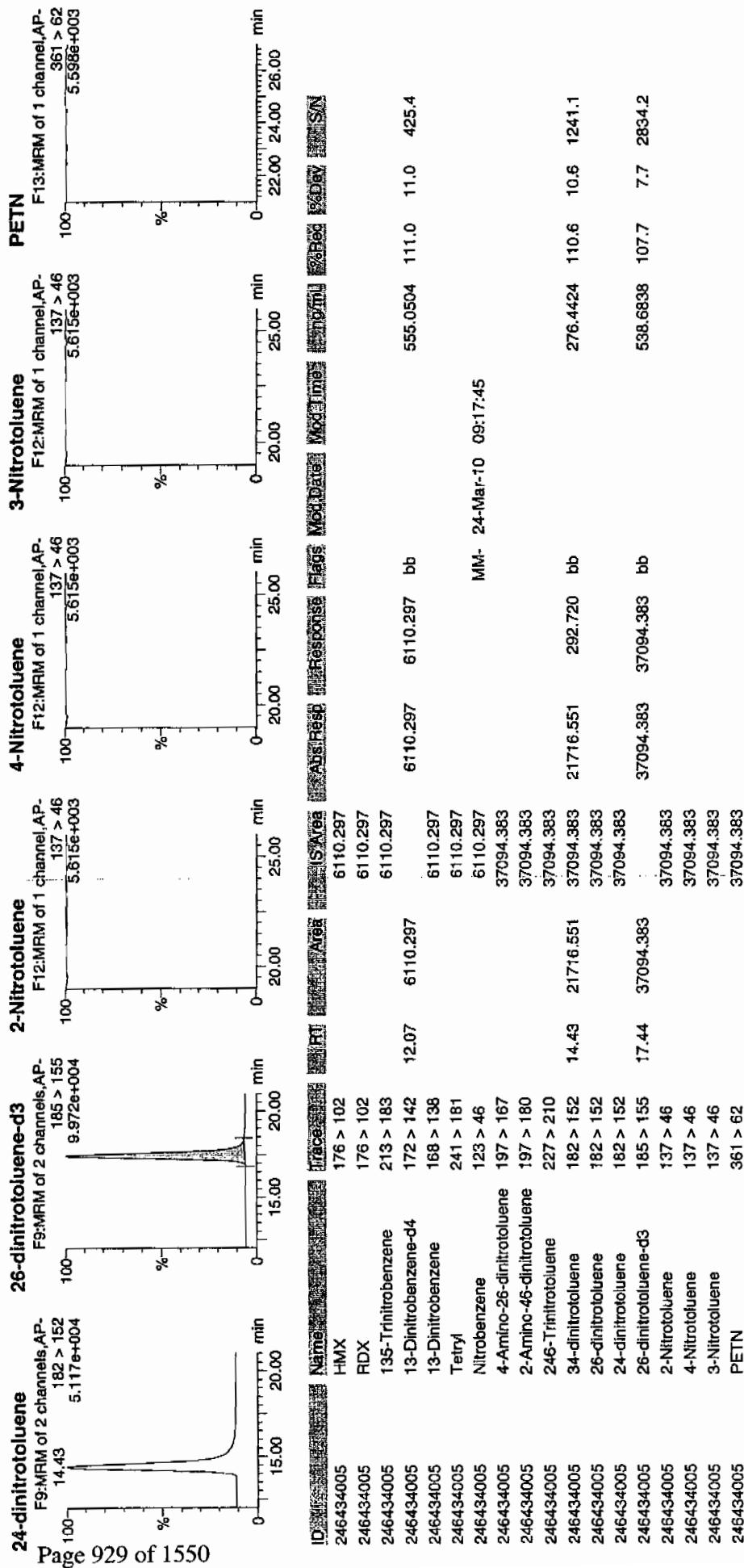
40112
03/24/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 56 of 99

Dataset: C:\MASSLYNX\New_Exp\PRO032310expA.qld, Time: Wed Mar 24 09:29:41 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8352

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434005

Sample Amount 2

Moisture: 23.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010134.wiff

Date Analyzed: 02-MAR-10 19:57

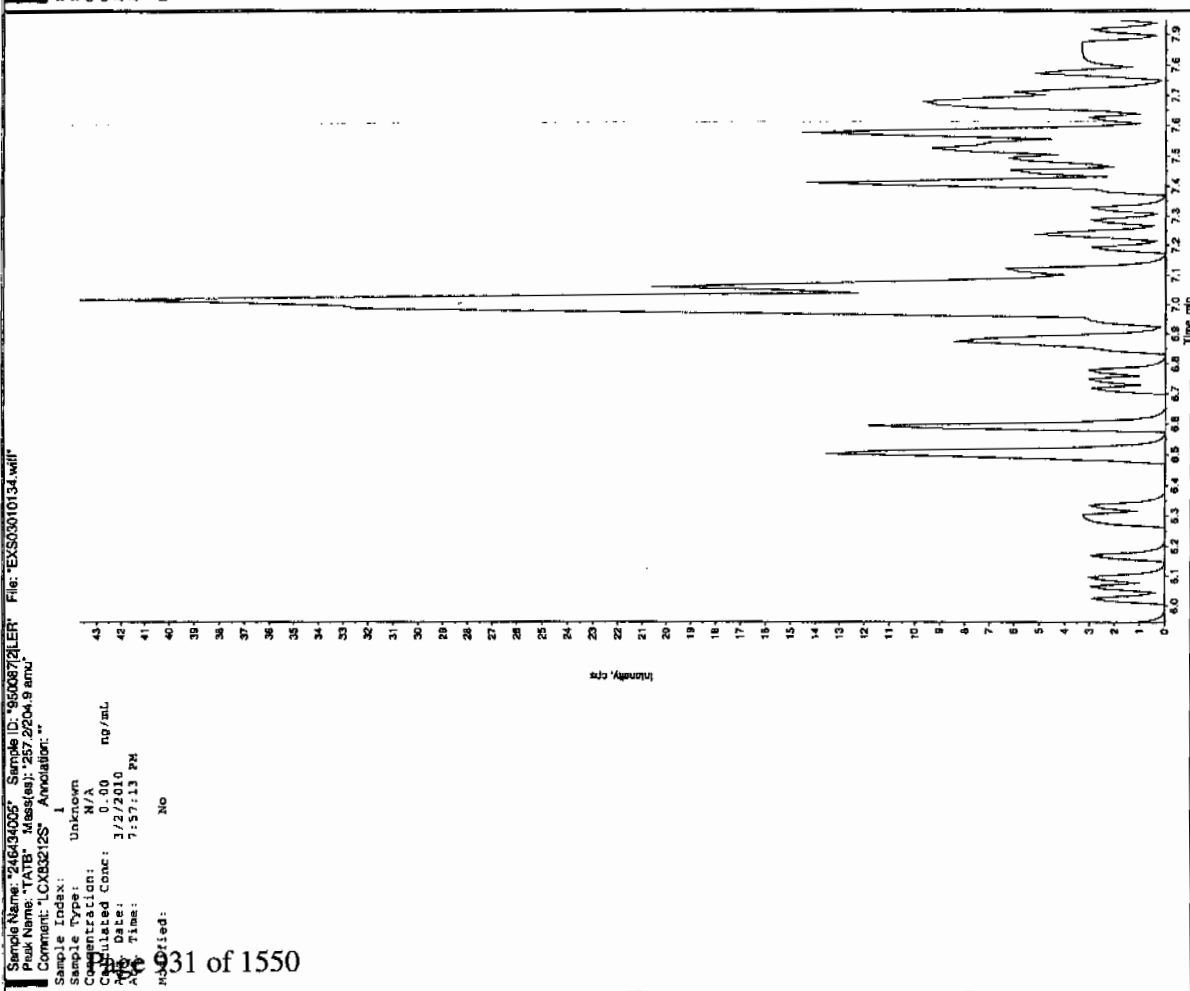
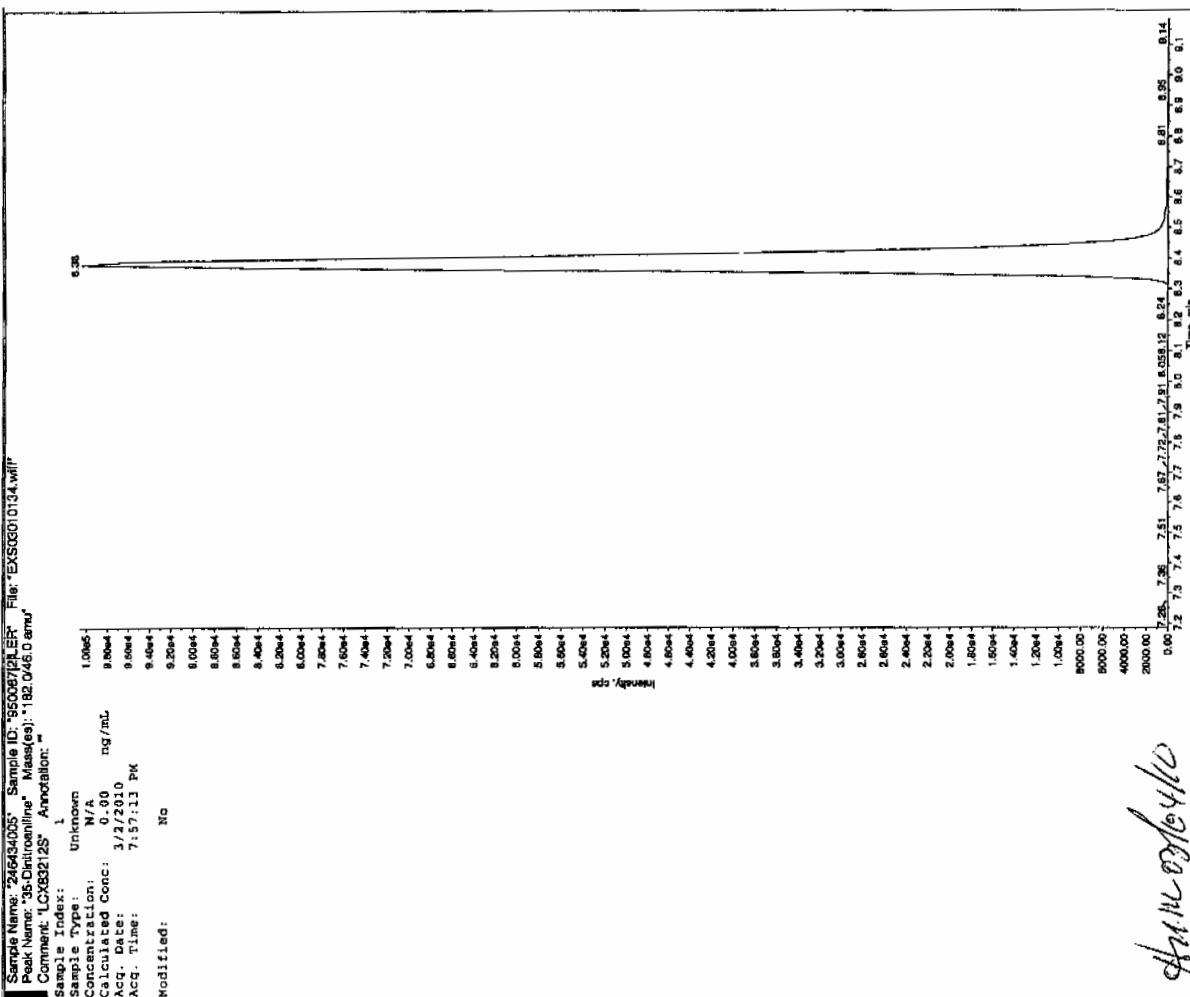
Units: ug/kg

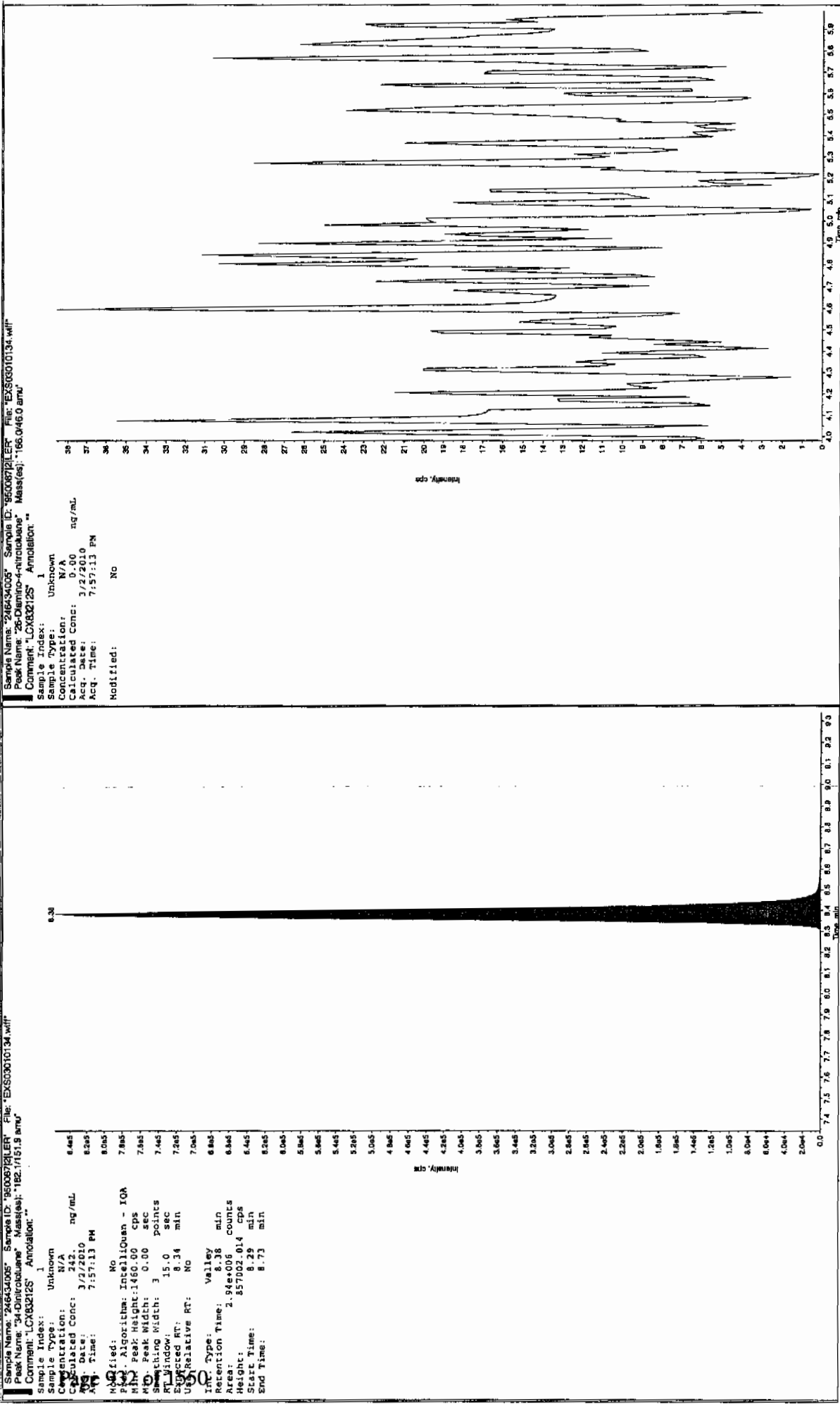
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

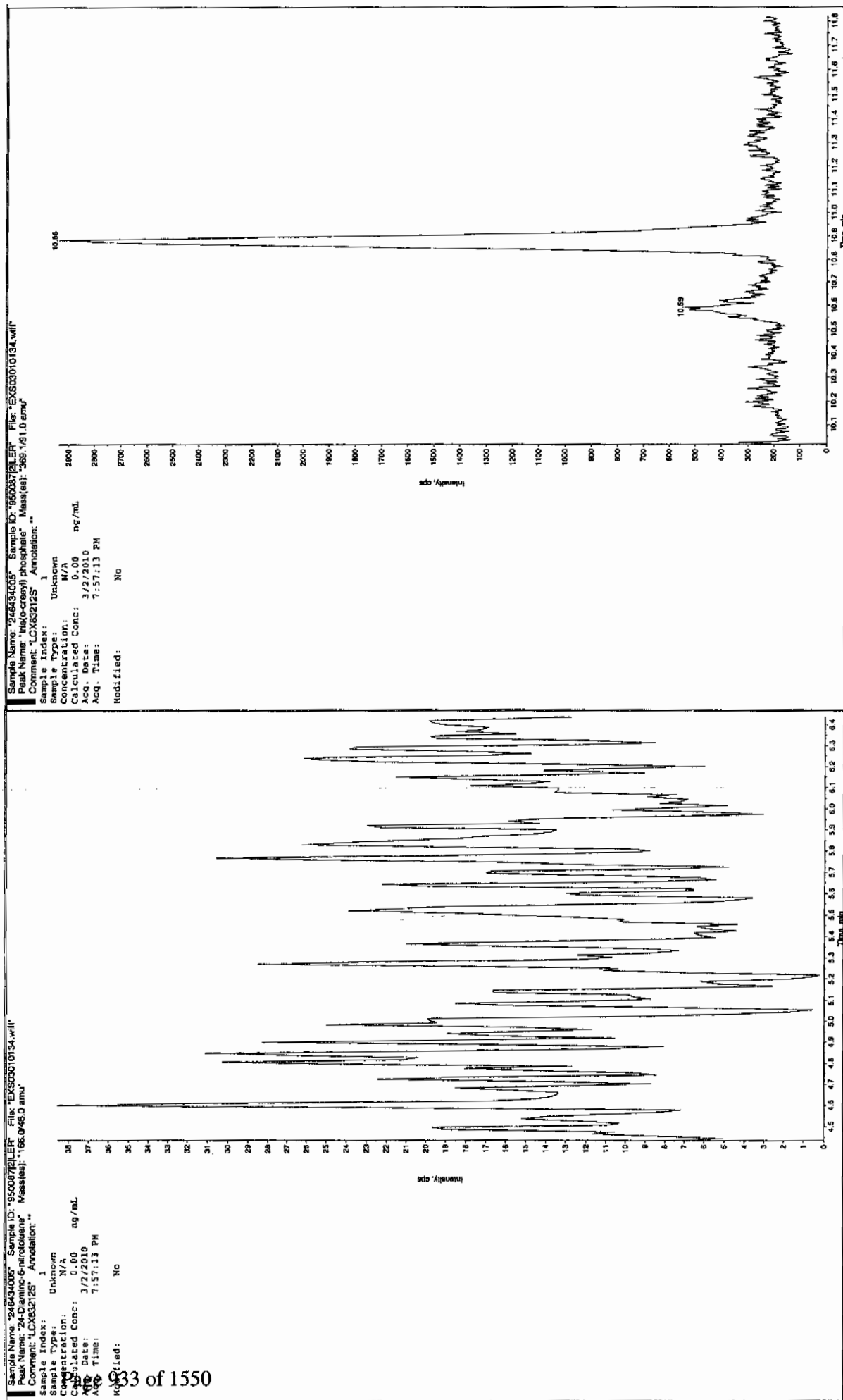
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

for 3/3/10





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8355

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434006

Sample Amount 2

Moisture: 12.7

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323029a

Date Analyzed: 23-MAR-10 22:54

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323029a

Date: 23-Mar-2010

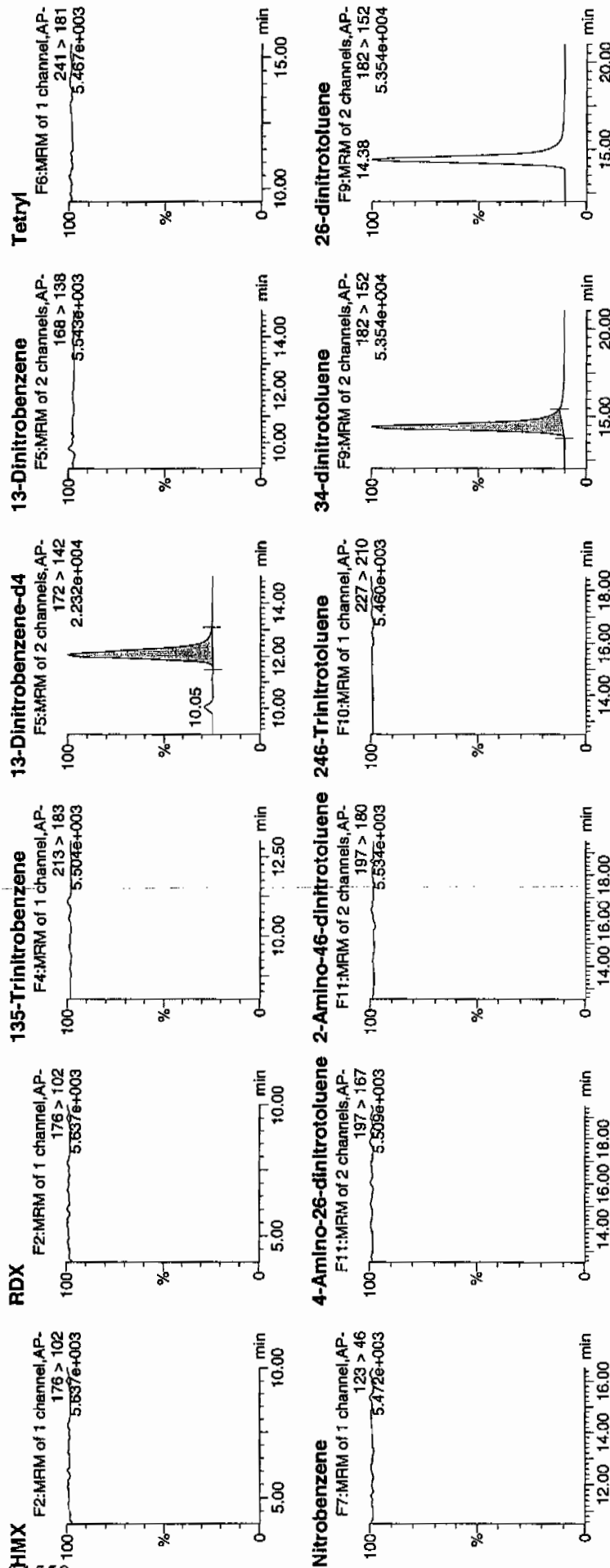
Time: 22:54:41

ID: 246434006

Vial: 2:2,C

100%
3/24/10

100%
950087/8022/21



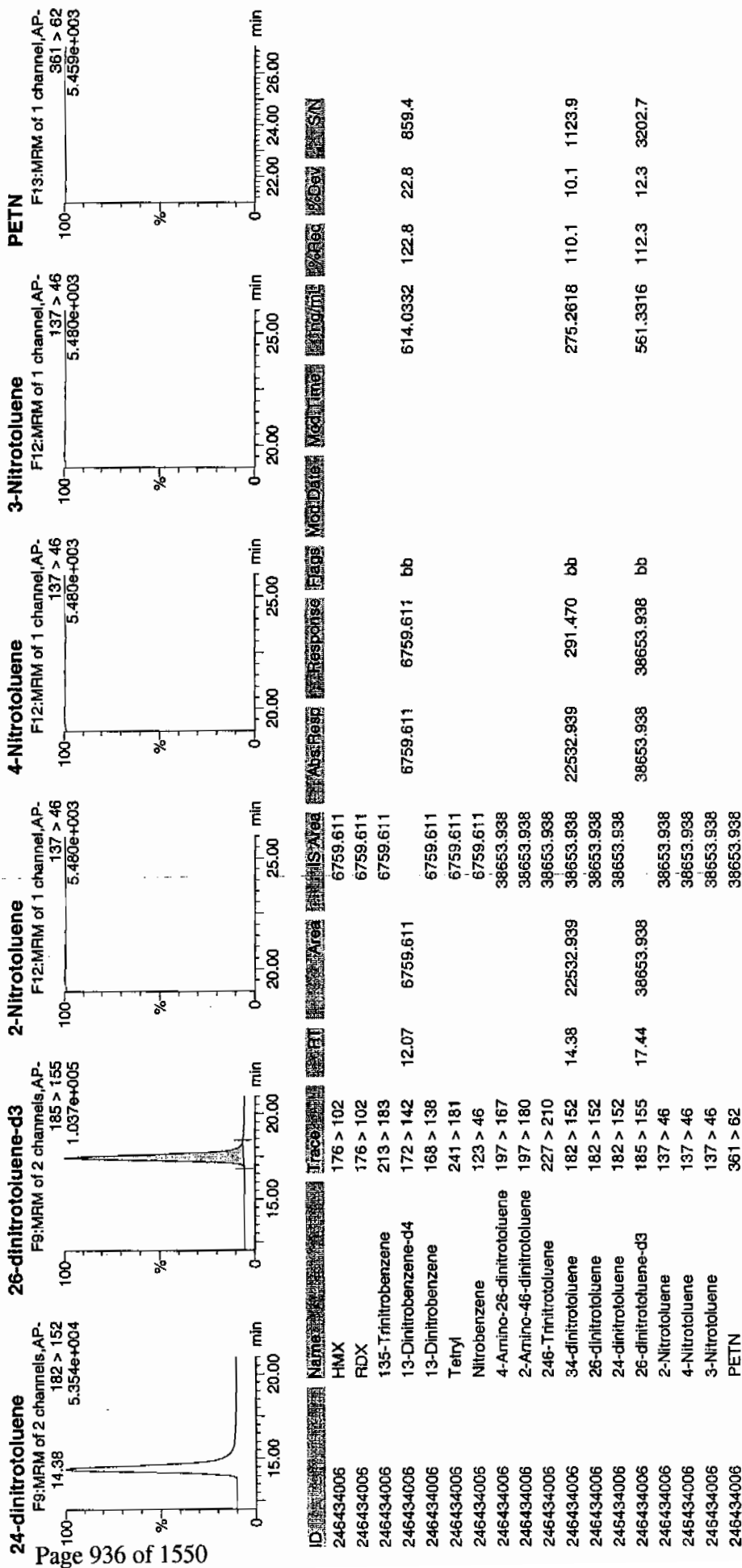
4mm
03/24/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 58 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8355

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434006

Sample Amount 2

Moisture: 12.7

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010135.wiff

Date Analyzed: 02-MAR-10 20:12

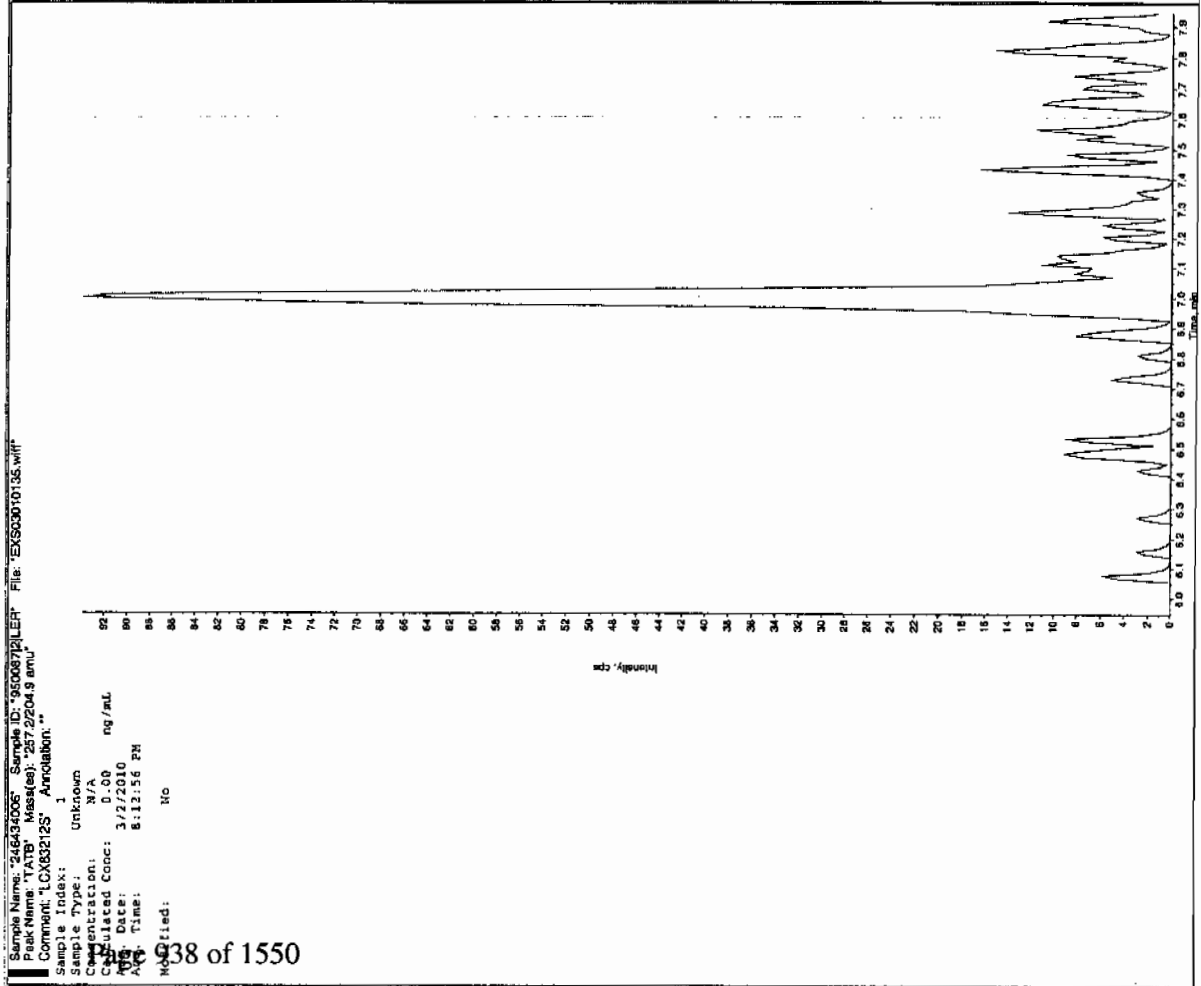
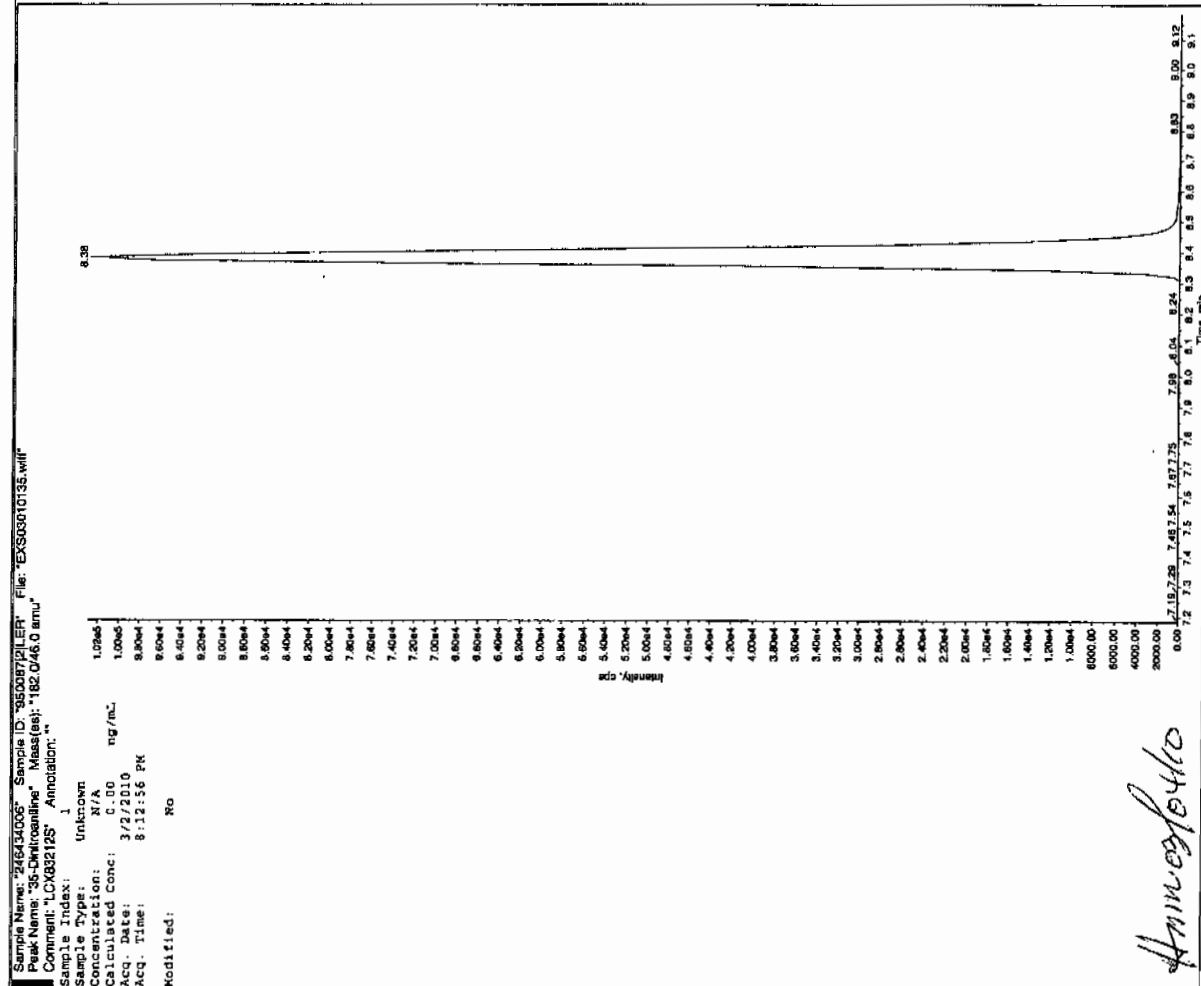
Units: ug/kg

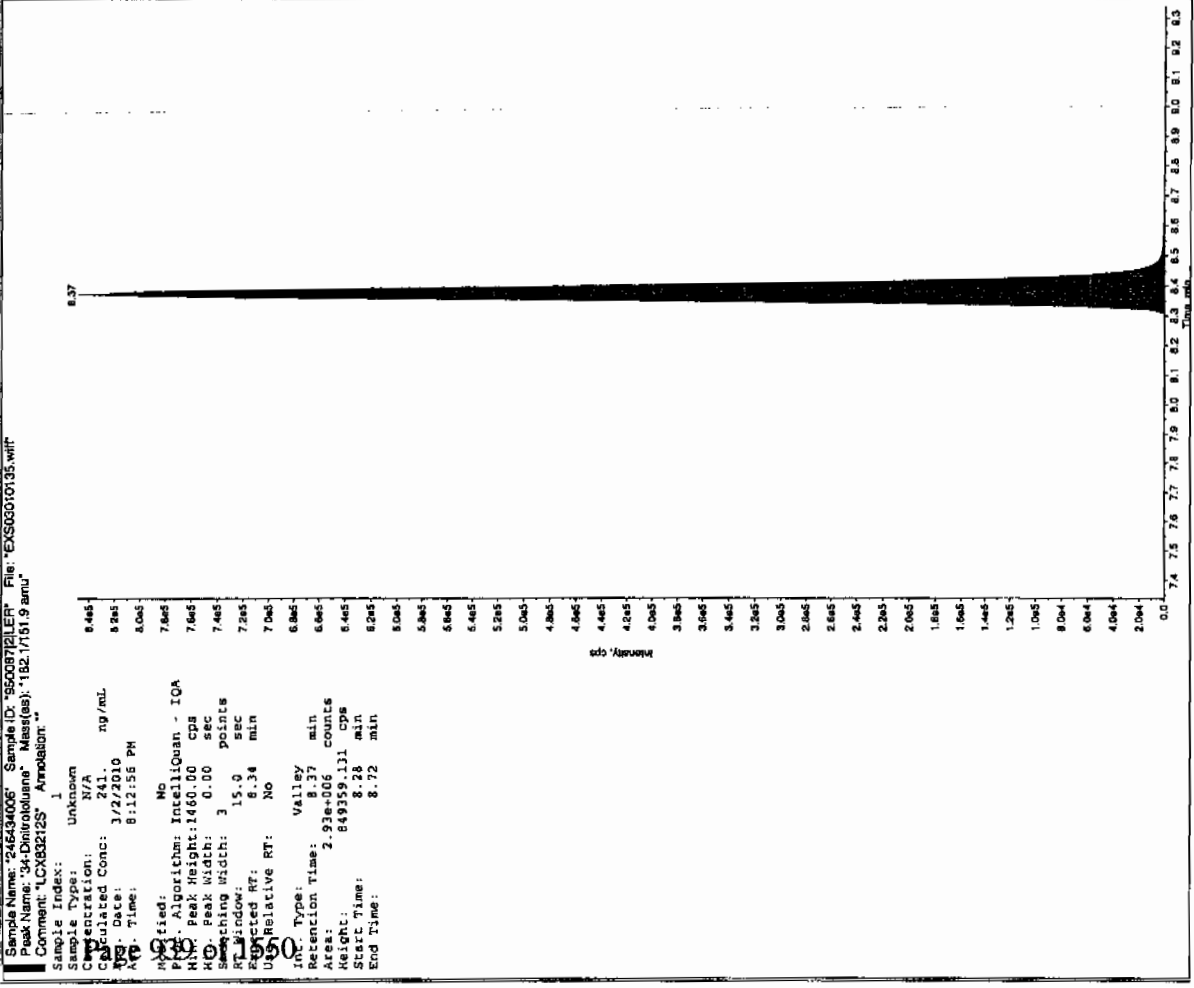
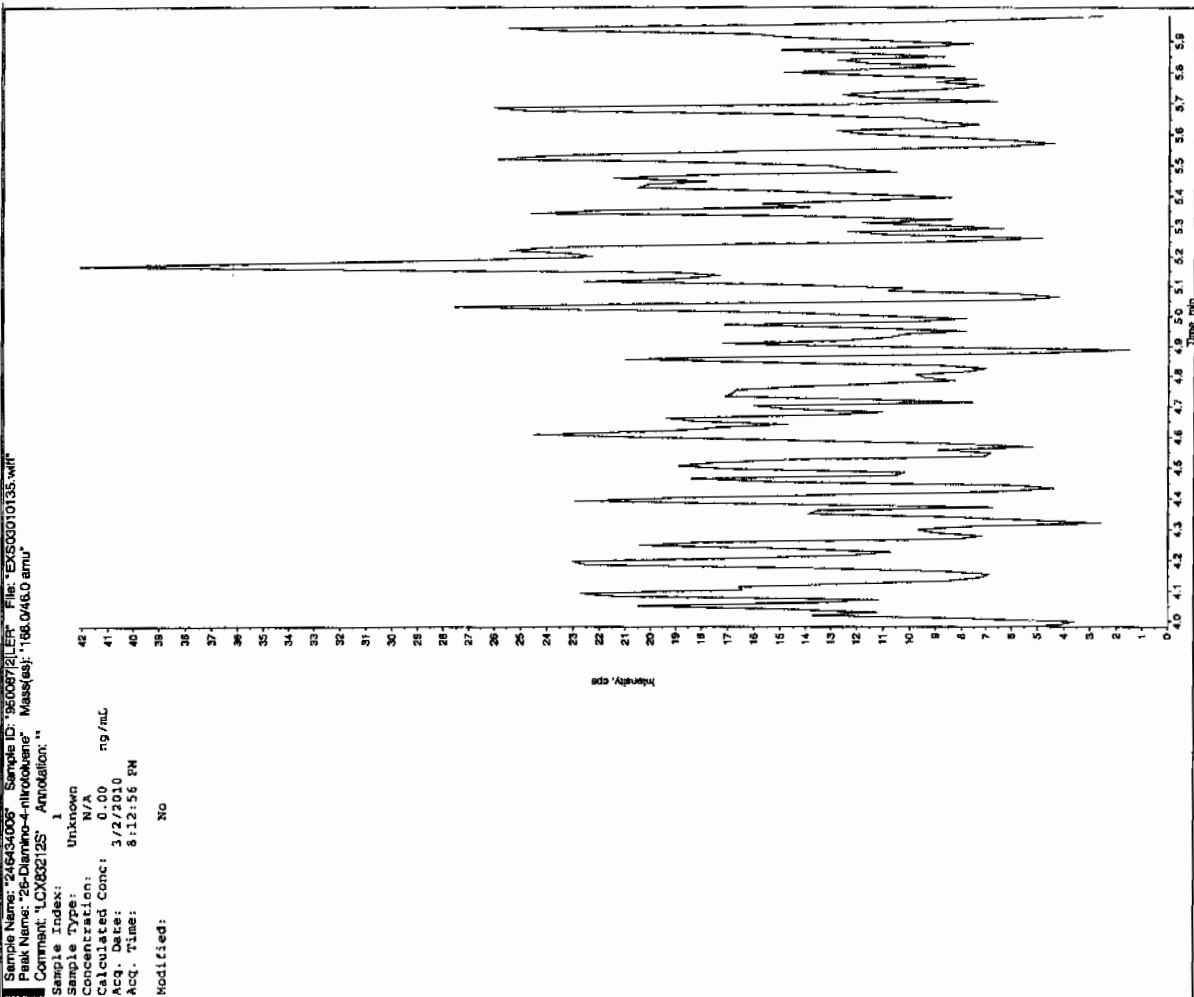
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

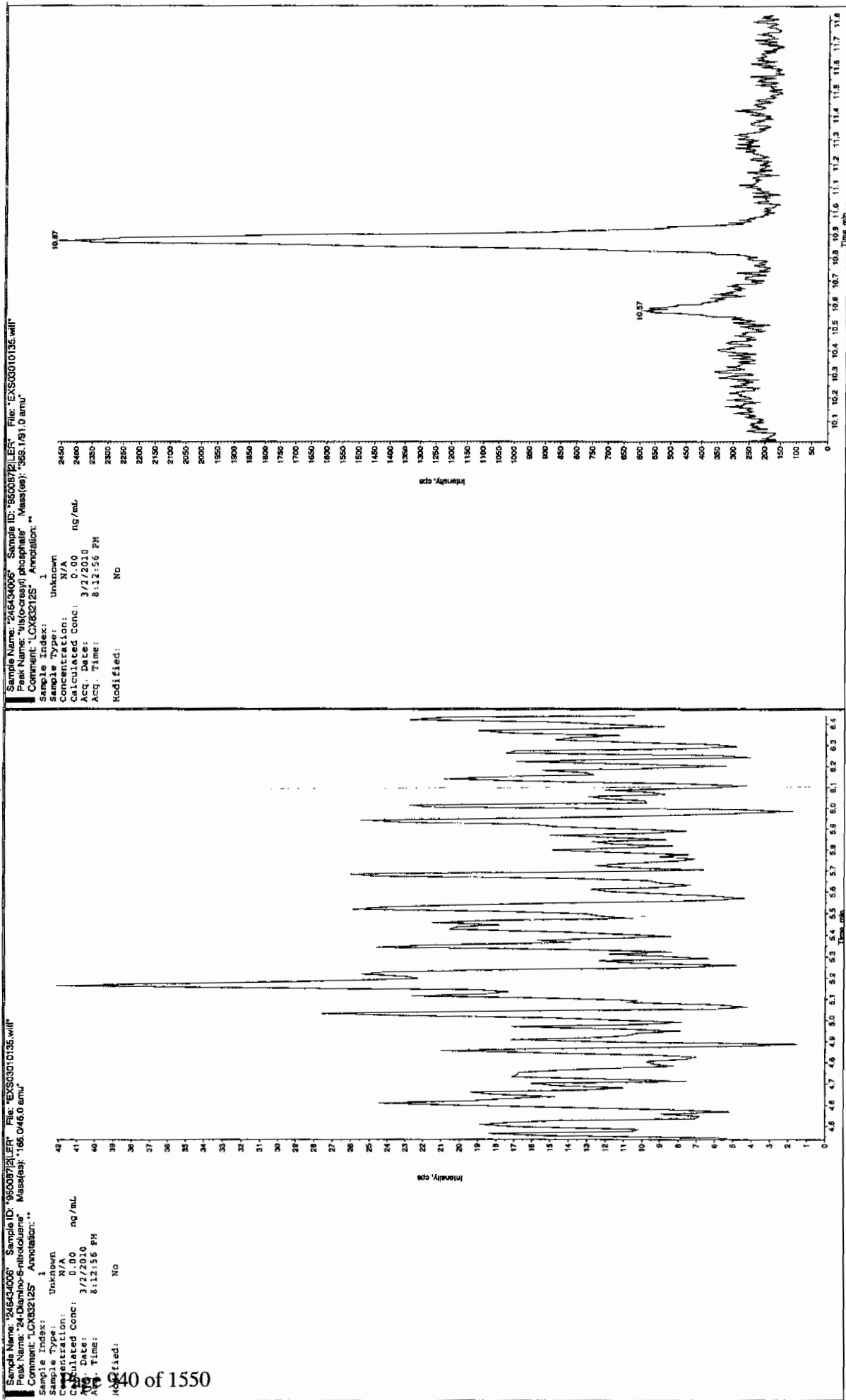
*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

2/27/10







1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8351

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434007

Sample Amount 2

Moisture: 15.1

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323030a

Date Analyzed: 23-MAR-10 23:24

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\data\EXP0323030a

Date: 23-Mar-2010

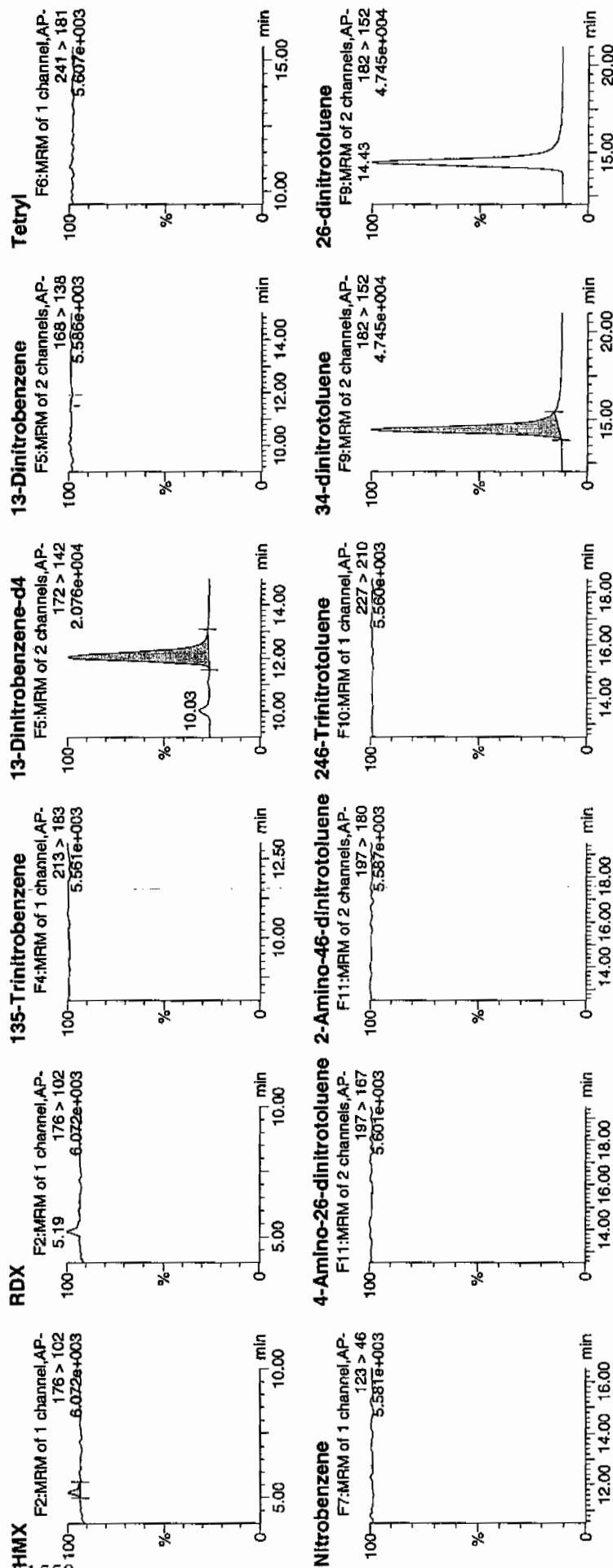
Time: 23:24:10

ID: 246434007

Vial: 2:2,D

4677
3/24/10

WAV 950084 | 21



4677
03/24/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8351

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434007

Sample Amount 2

Moisture: 15.1

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010136.wiff

Date Analyzed: 02-MAR-10 20:28

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

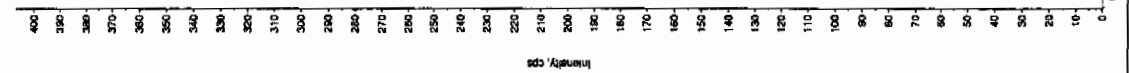
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

80532110

Sample Name: "24634007" Sample ID: "950087121" File: "EX503010136.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCX83212S" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3/2/2010
 Acq. Date: 8:28:10 PM
 Acq. Time: 8:28:10 PM
 Modified: No

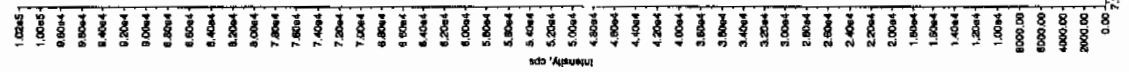
Intensity, cps



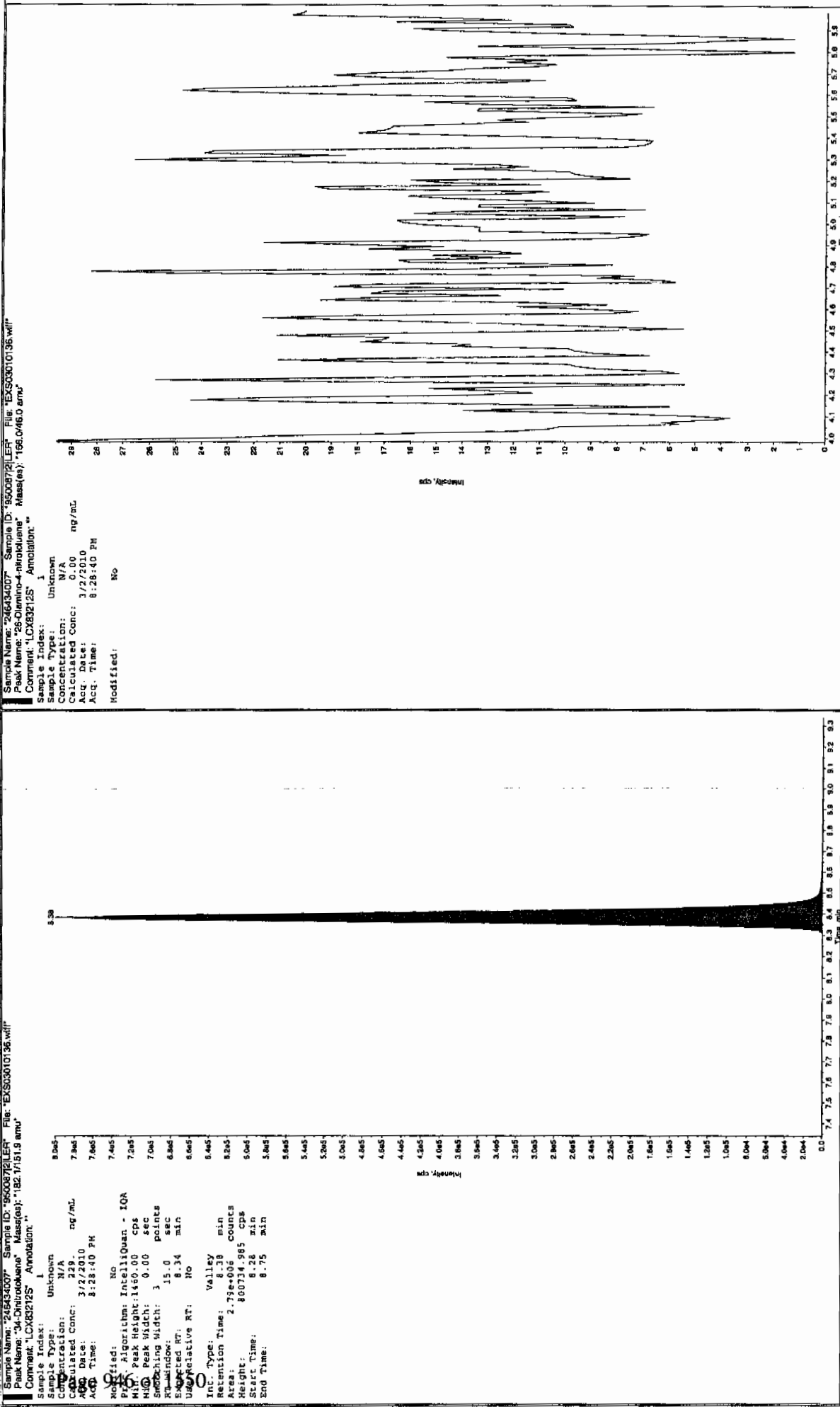
Sample Name: "24634007" Sample ID: "950087121" File: "EX503010136.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCX83212S" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3/2/2010
 Acq. Date: 8:28:10 PM
 Acq. Time: 8:28:10 PM
 Modified: No

Intensity, cps



80532110



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8350

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434008

Sample Amount 2

Moisture: 23.1

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323031a

Date Analyzed: 23-MAR-10 23:53

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

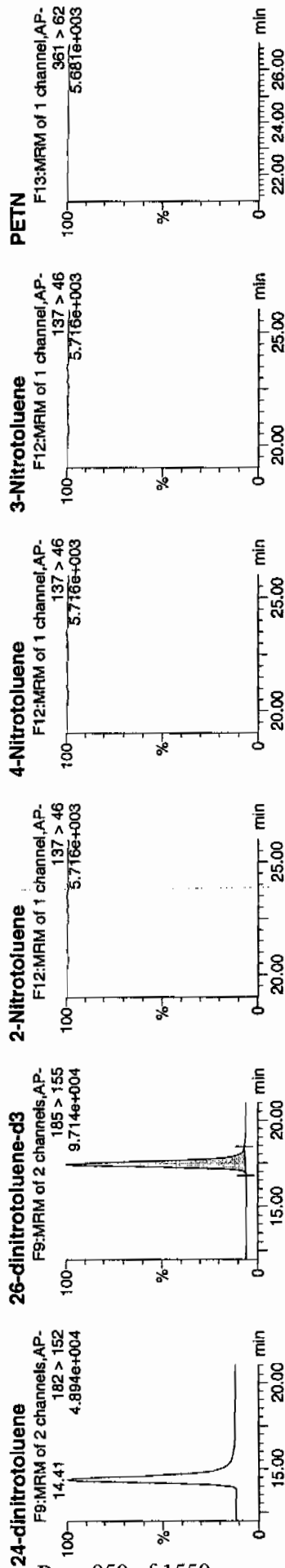
*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

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1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8350

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434008

Sample Amount 2

Moisture: 23.1

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010140.wiff

Date Analyzed: 02-MAR-10 21:31

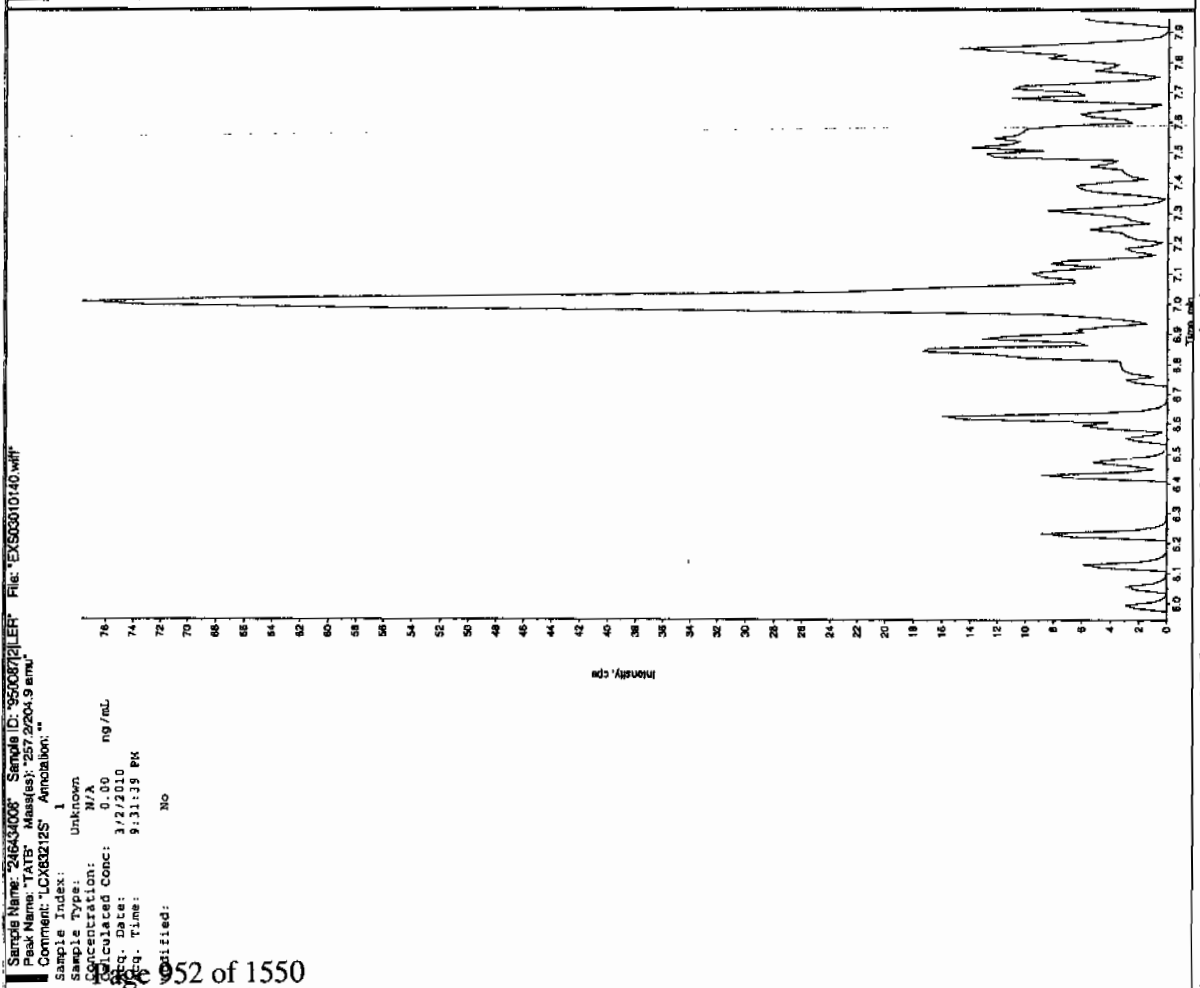
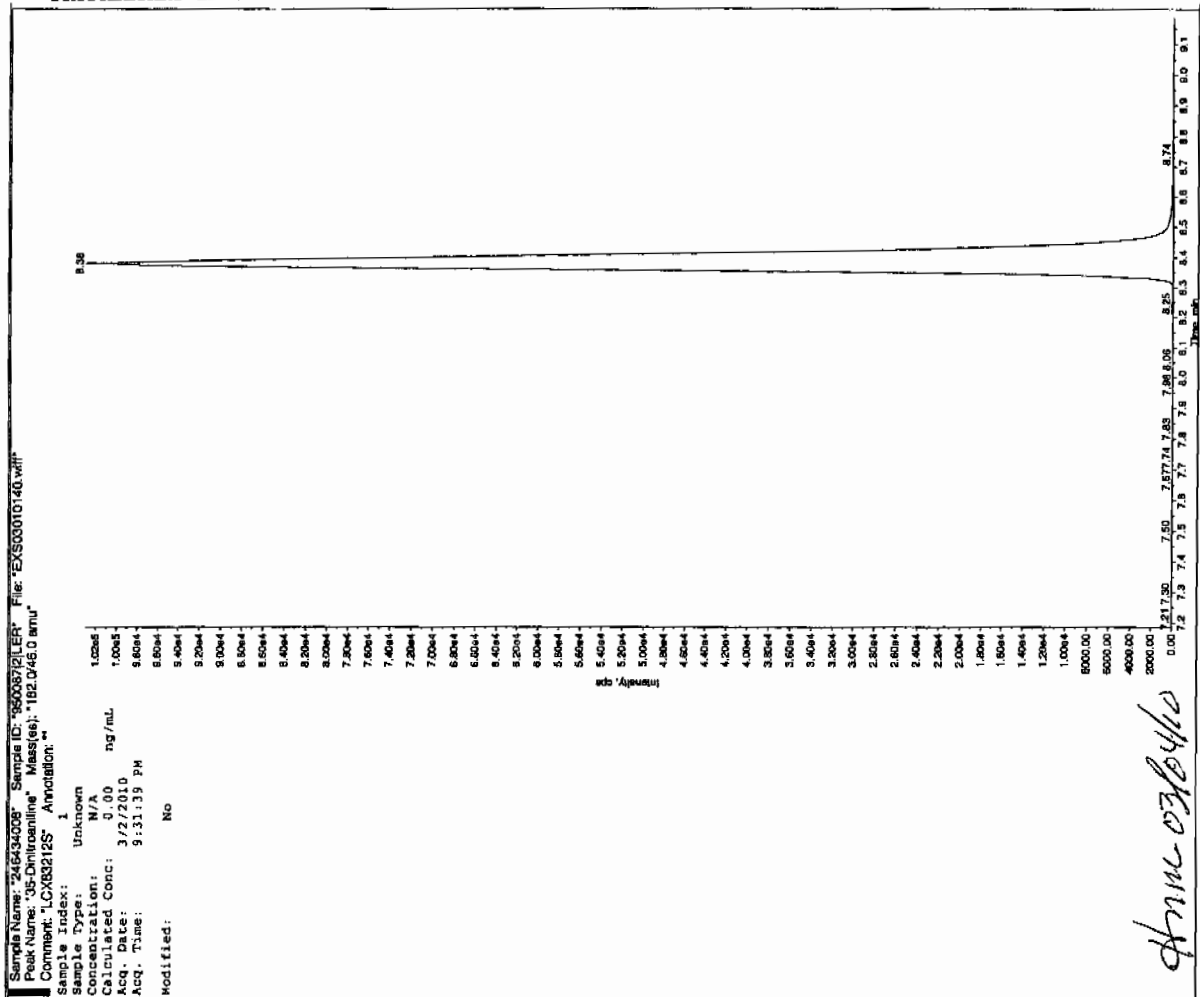
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

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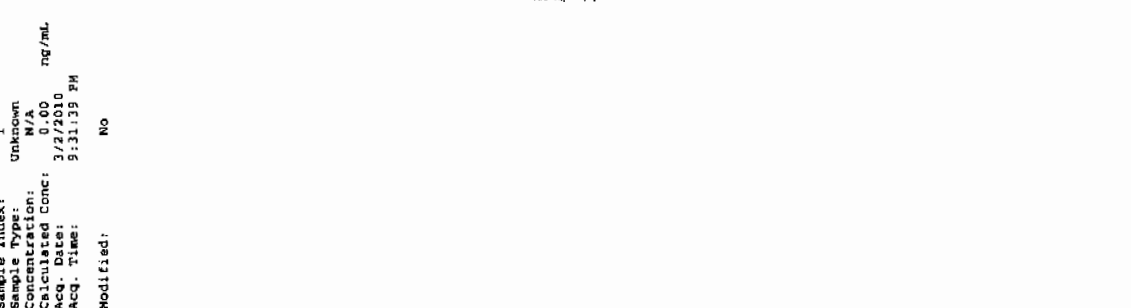


Page 952 of 1550

Sample Name: "24634009" Sample ID: "95008721ER" File: "EX500010140.wht"
 Peak Name: "25-Dinitro-4-nitrofluorene" Mass(es): "166.04650 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 9:31:39 PM
 Modified: No

Intensity, cps

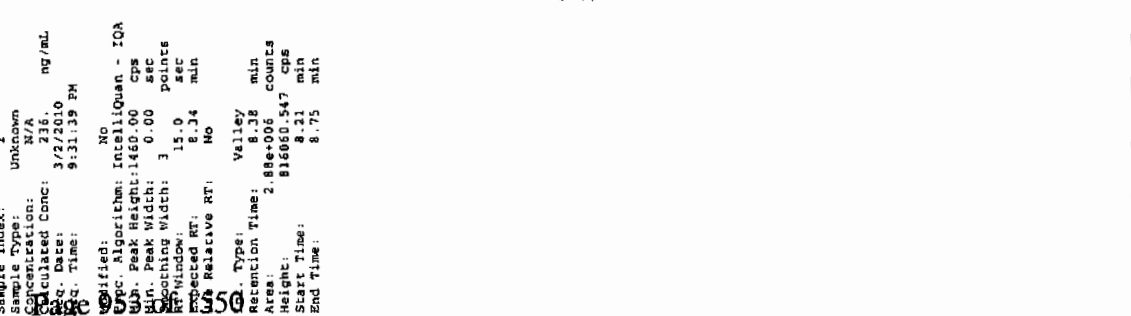


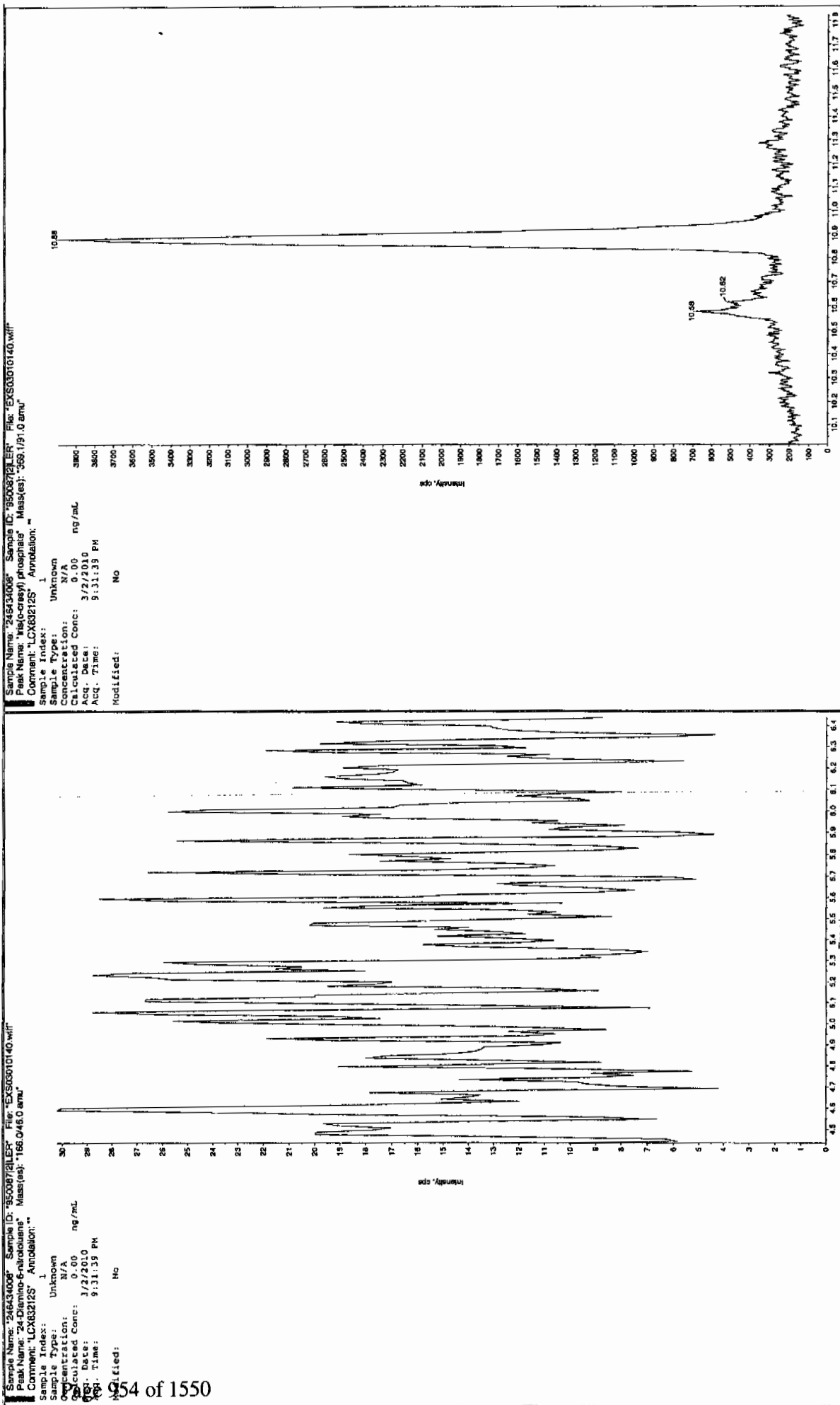
Sample Name: "24634009" Sample ID: "95008721ER" File: "EX500010140.wht"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.11519 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 236. ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 9:31:39 PM
 Modified: No

OPC Algorithm: IntelliQuan - IOA
 Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Peak Width: 3.00 points
 Peak Area: 15.0 sec
 Peak RT: 8.24 min
 Relative RT: No
 Type: Valley
 Retention Time: 8.38 min
 Area: 2.88e+005 counts
 Height: 816050.547 cps
 Start Time: 8.21 min
 End Time: 8.75 min

Intensity, cps





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8357

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434009

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323032a

Date Analyzed: 24-MAR-10 00:23

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 63 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

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Date: 24-Mar-2010

Time: 00:23:06

ID: 246434009

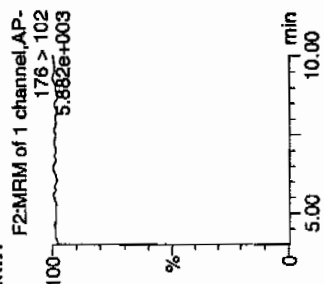
Vial: 2:2,F

Not
3/24/10

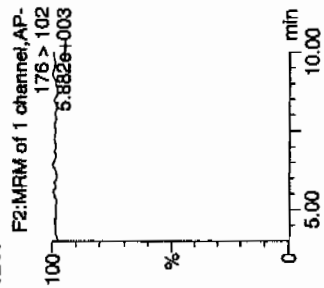
Lawrence 950087 / Souza 121

Page 956 of 1550

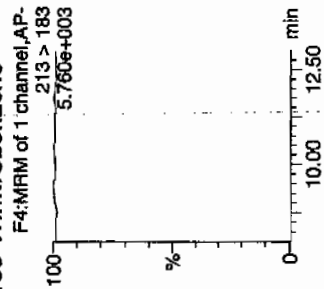
HMX



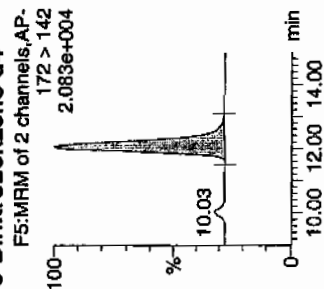
RDX



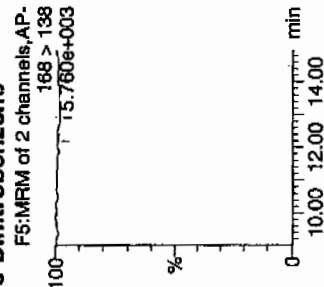
135-Trinitrobenzene



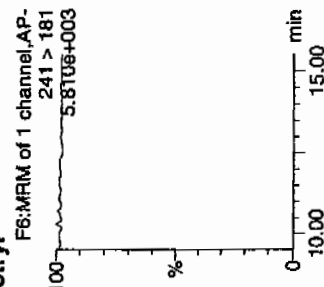
13-Dinitrobenzene-d4



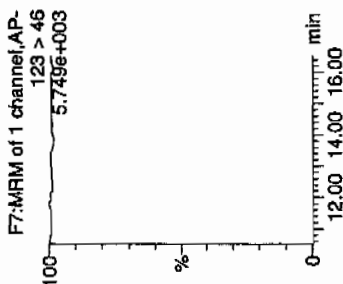
13-Dinitrobenzene



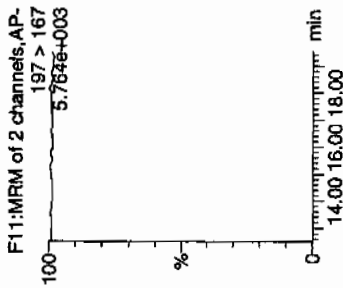
Tetryl



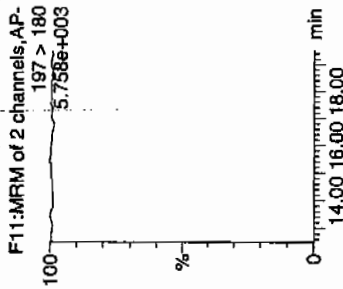
Nitrobenzene



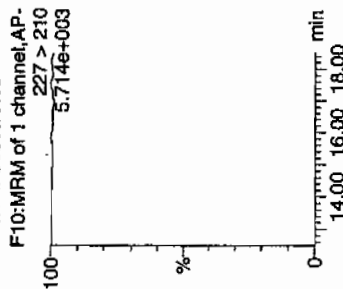
4-Amino-26-dinitrotoluene



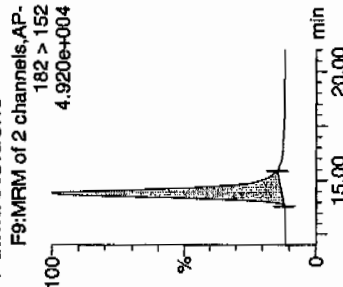
2-Amino-46-dinitrotoluene



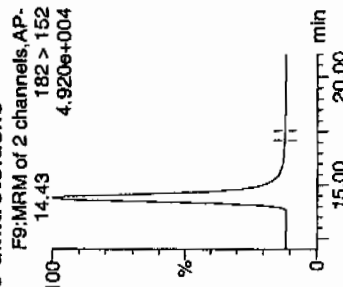
246-Trinitrotoluene



34-dinitrotoluene

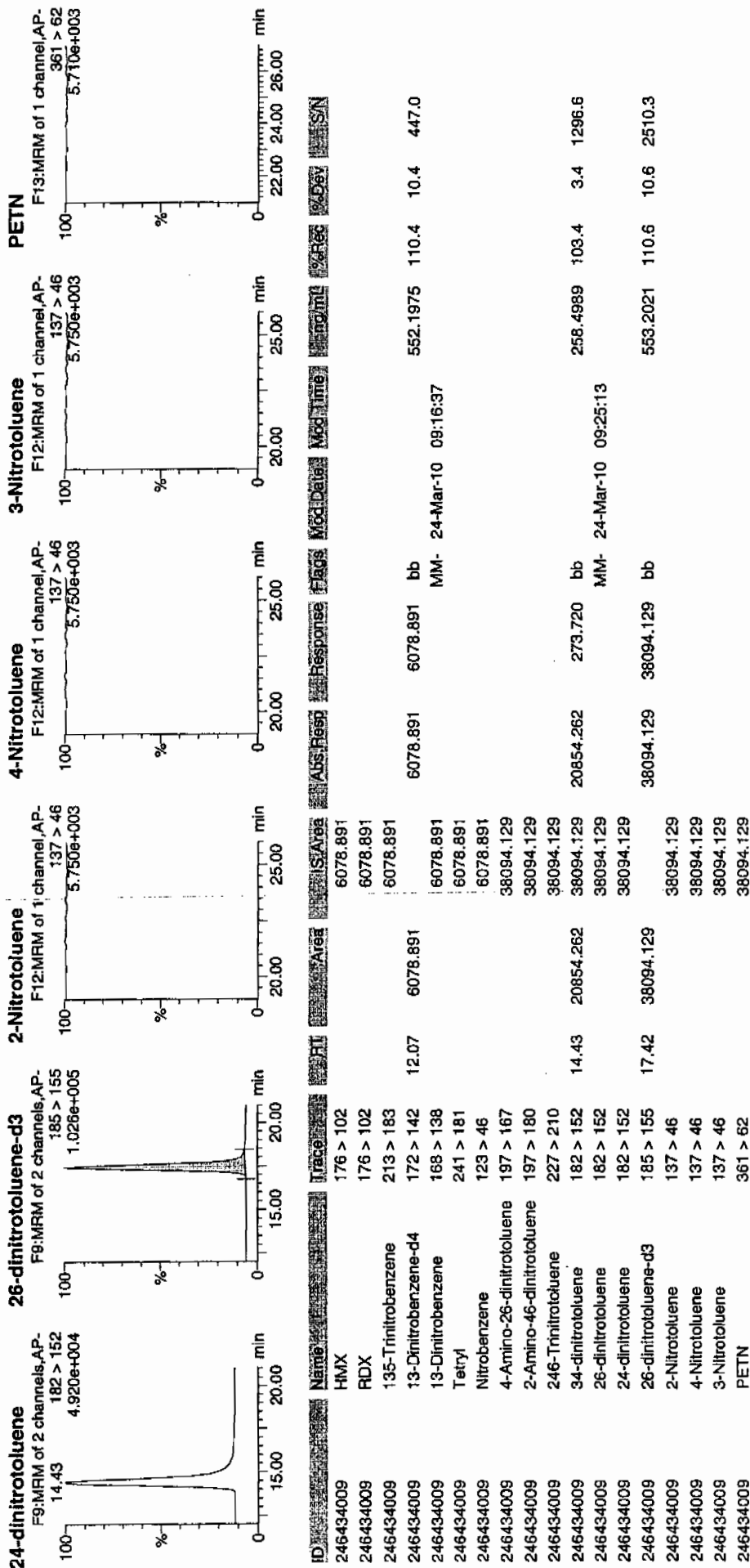


26-dinitrotoluene



Amr
03/24/10

Dataset: C:\MASSLYNX\New_Exp_PRO\032310expA.qtd, Time: Wed Mar 24 09:29:41 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8357

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434009

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010141.wiff

Date Analyzed: 02-MAR-10 21:47

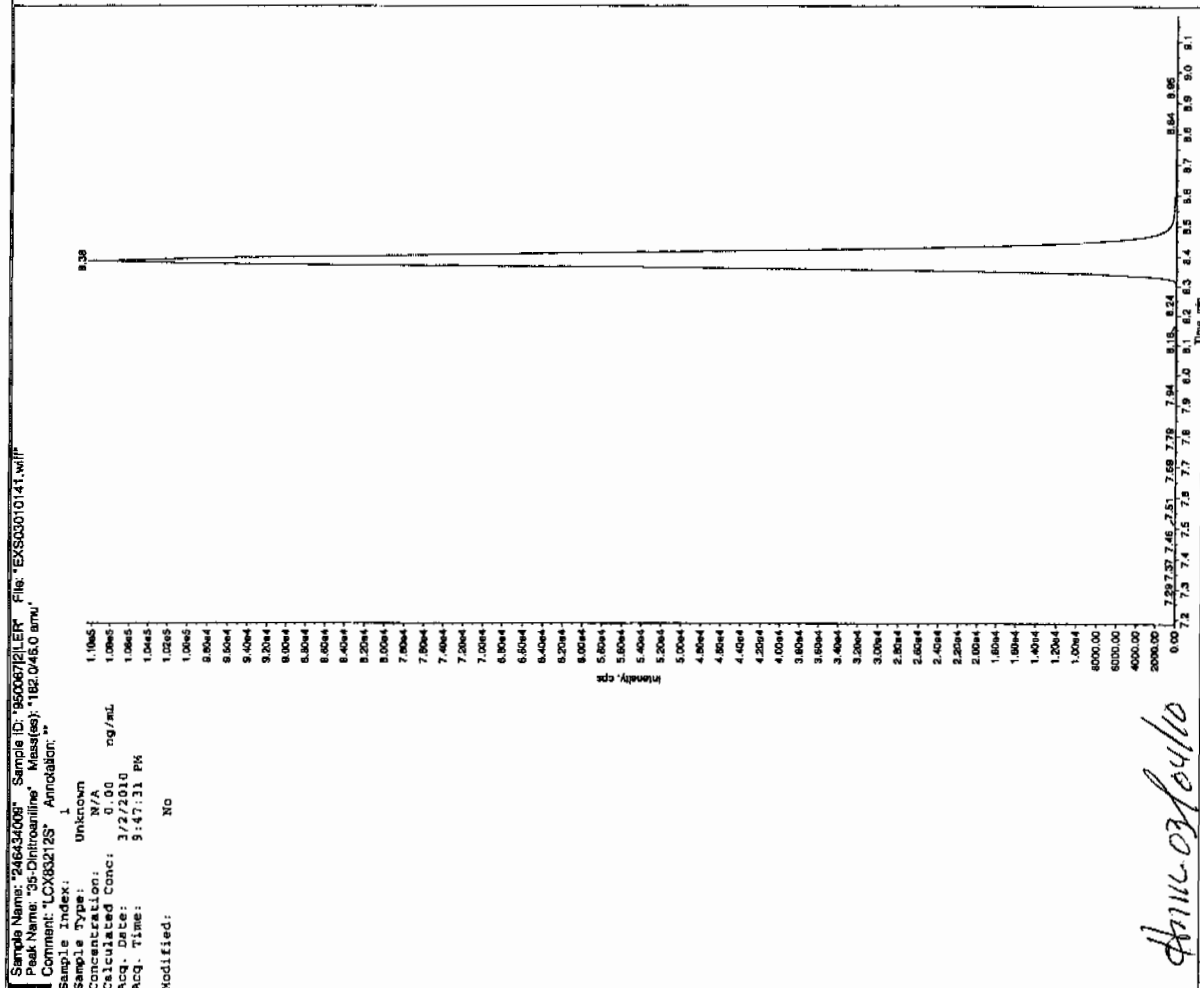
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

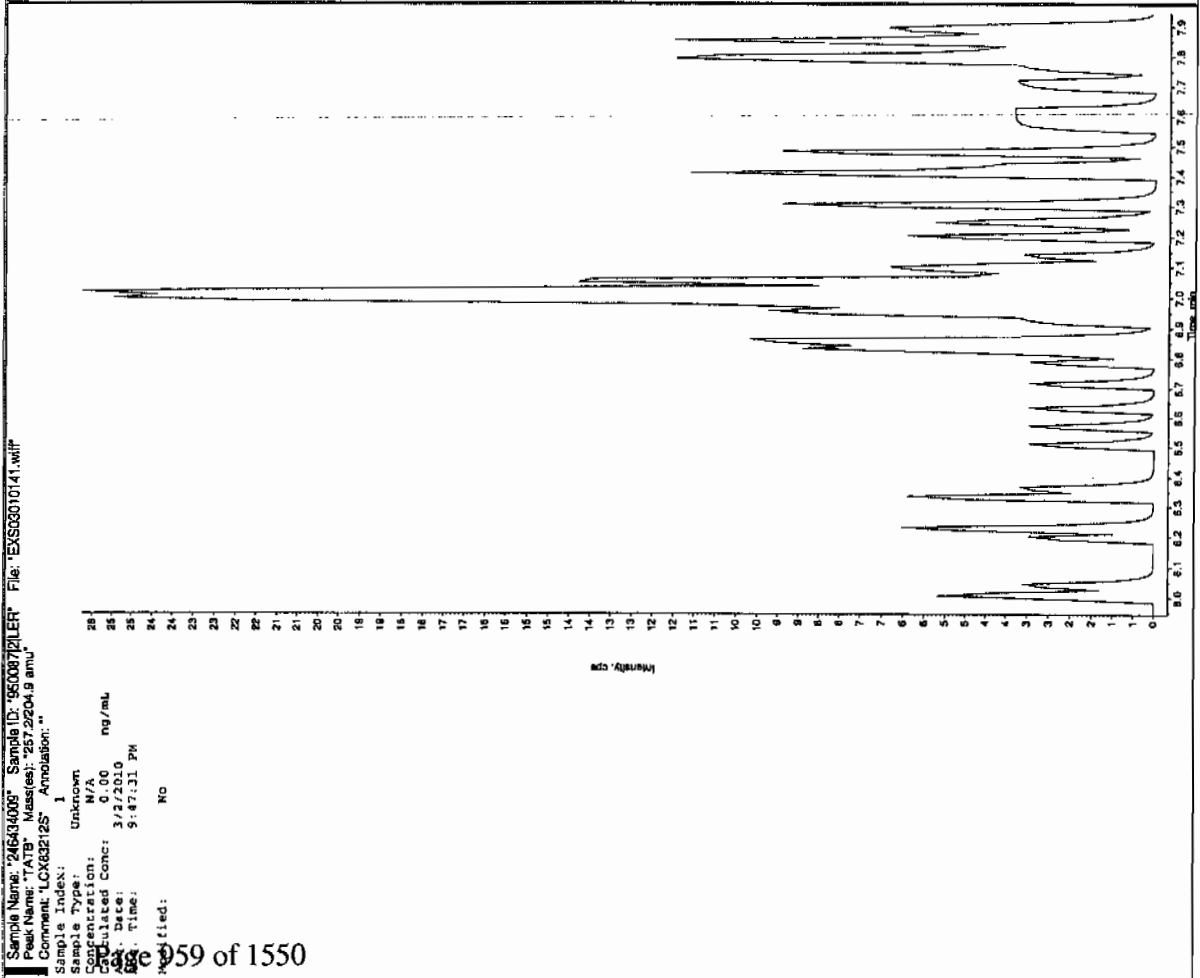
*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

8/23/10



8/23/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "24634009" Sample ID: "95008721LER" File: "EXS03D10141.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00 ng/mL
Acq. Date:	3/2/2010
Acq. Time:	9:47:31 PM
Modified:	NO

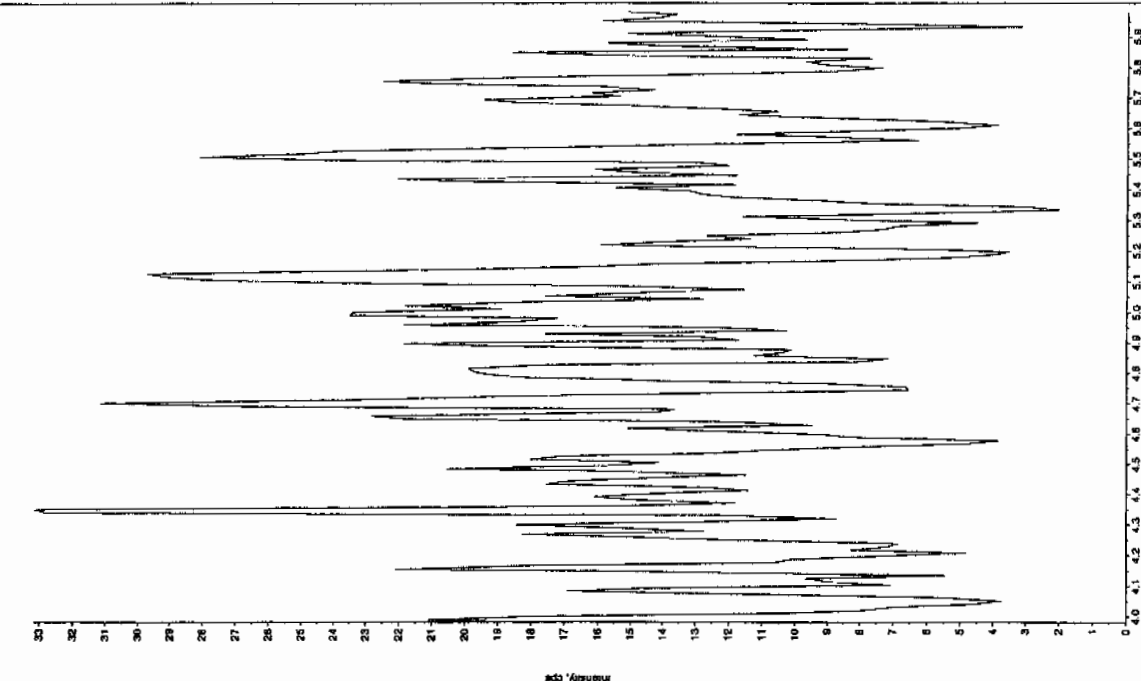
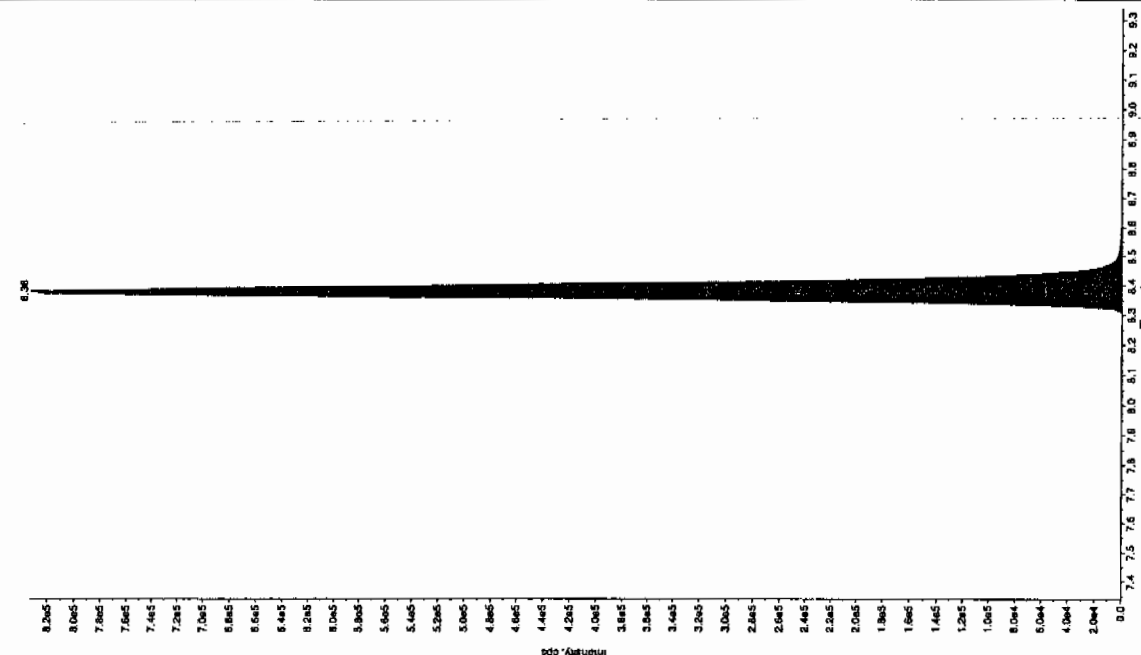
Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	235. ng/mL
Sq. Date:	3/2/2010
Sq. Time:	9:47:31 PM

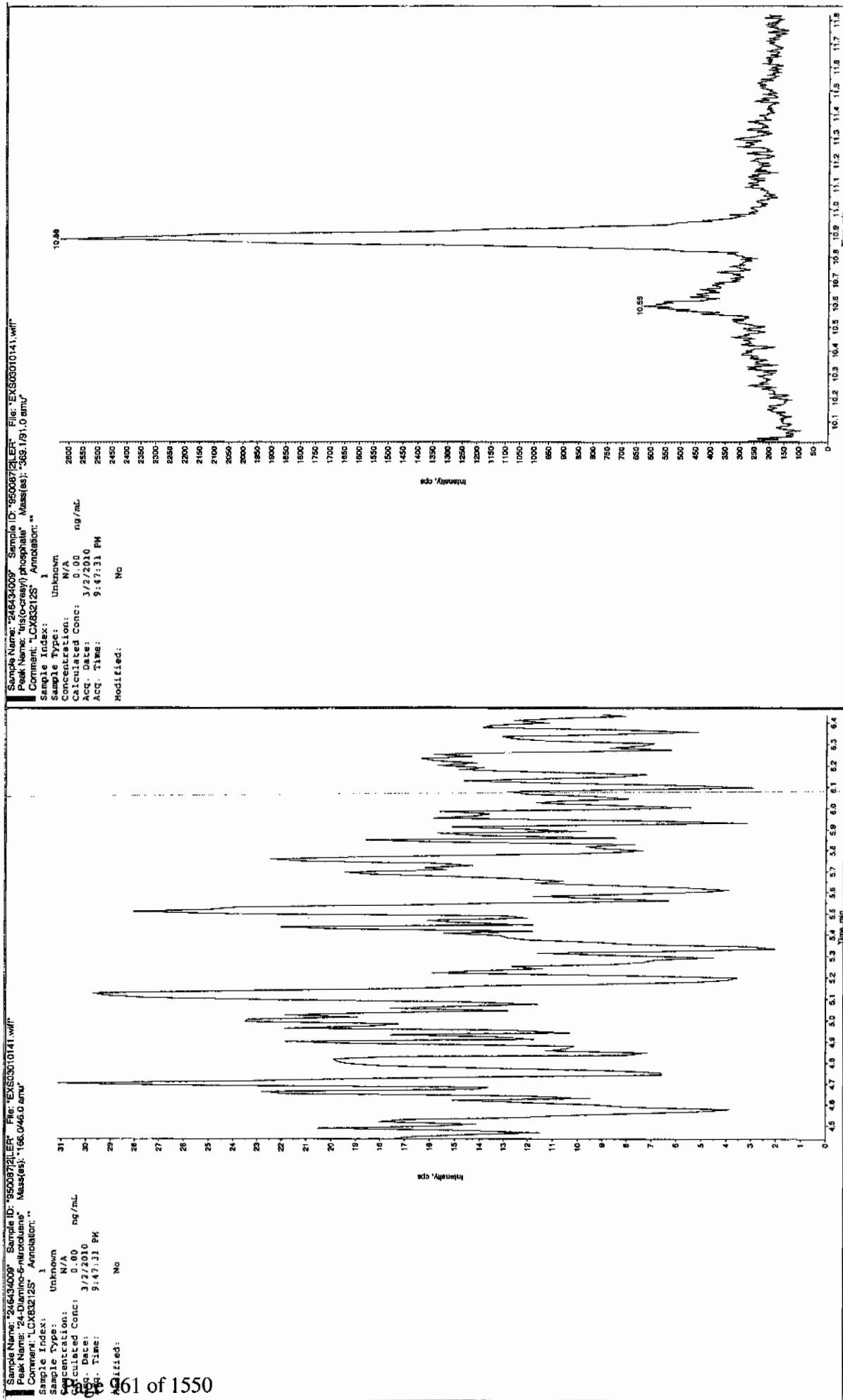
No
 Spec. Algorithm: IntelliQuan - IQA
 Peak Height: 1460.00 cps
 n. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Window: 15.0 sec
 Selected RT: 8.34 min

```

580 Relative RT: No
Type: Valley
Retention Time: 8.38 min
Area: 2.87e+006 counts
Height: 832625.000 cps
Start Time: 8.26 min
End Time: 8.73 min

```





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8338

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434010

Sample Amount 2

Moisture: 22.4

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323033a

Date Analyzed: 24-MAR-10 00:52

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

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Date: 24-Mar-2010

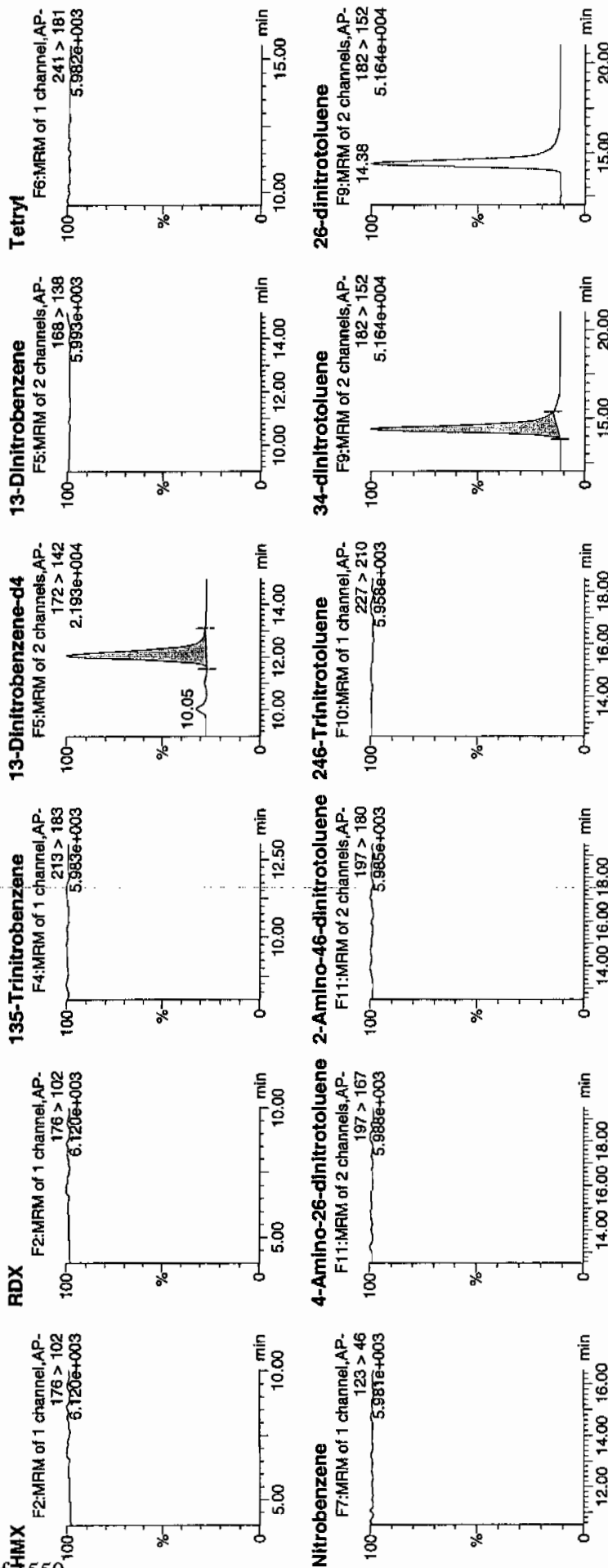
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ID: 246434010

Vial: 2:3,A

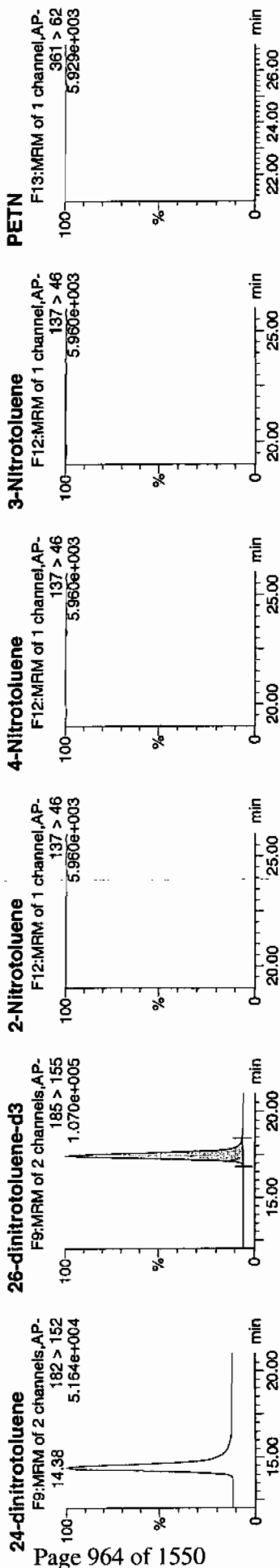
107P
3/24/10

LAUW/950087/SOAP/21



Am 107P
03/24/10

Dataset: C:\MASSLYNX\New_Exp\PROV032310expA.qld, Time: Wed Mar 24 09:29:41 2010



ID	Name	Trace	RT	Area	IS:Area	Abs:Resp	Response	Flags	Mod:Time	Mod:Date	%Rec	%Dev
246434010	HMX	176 > 102		6289.305	6289.305							
246434010	RDX	176 > 102		6289.305	6289.305							
246434010	135-Trinitrobenzene	213 > 183		6289.305	6289.305							
246434010	13-Dinitrobenzene-d4	172 > 142	12.07	6289.305	6289.305		6289.305	bb			571.3112	14.3
246434010	13-Dinitrobenzene	168 > 138		6289.305	6289.305							473.0
246434010	Tetryl	241 > 181		6289.305	6289.305							
246434010	Nitrobenzene	123 > 46		39334.895	39334.895							
246434010	4-Amino-26-dinitrotoluene	197 > 167		39334.895	39334.895							
246434010	2-Amino-46-dinitrotoluene	197 > 180		39334.895	39334.895							
246434010	246-Trinitrotoluene	227 > 210		39334.895	39334.895							
246434010	34-dinitrotoluene	182 > 152	14.38	21294.002	39334.895		21294.002	bb			255.6237	2.2
246434010	26-dinitrotoluene	182 > 152		39334.895	39334.895							
246434010	24-dinitrotoluene	182 > 152		39334.895	39334.895							
246434010	26-dinitrotoluene-d3	185 > 155	17.44	39334.895	39334.895		39334.895	bb			571.2204	14.2
246434010	2-Nitrotoluene	137 > 46		39334.895	39334.895							
246434010	4-Nitrotoluene	137 > 46		39334.895	39334.895							
246434010	3-Nitrotoluene	137 > 46		39334.895	39334.895							
246434010	PETN	361 > 62		39334.895	39334.895							

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8338

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434010

Sample Amount 2

Moisture: 22.4

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010142.wiff

Date Analyzed: 02-MAR-10 22:03

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

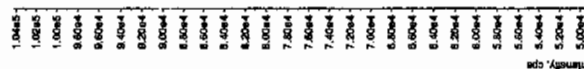
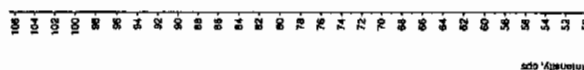
*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

01/13/10
Jm

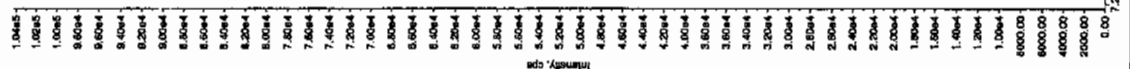
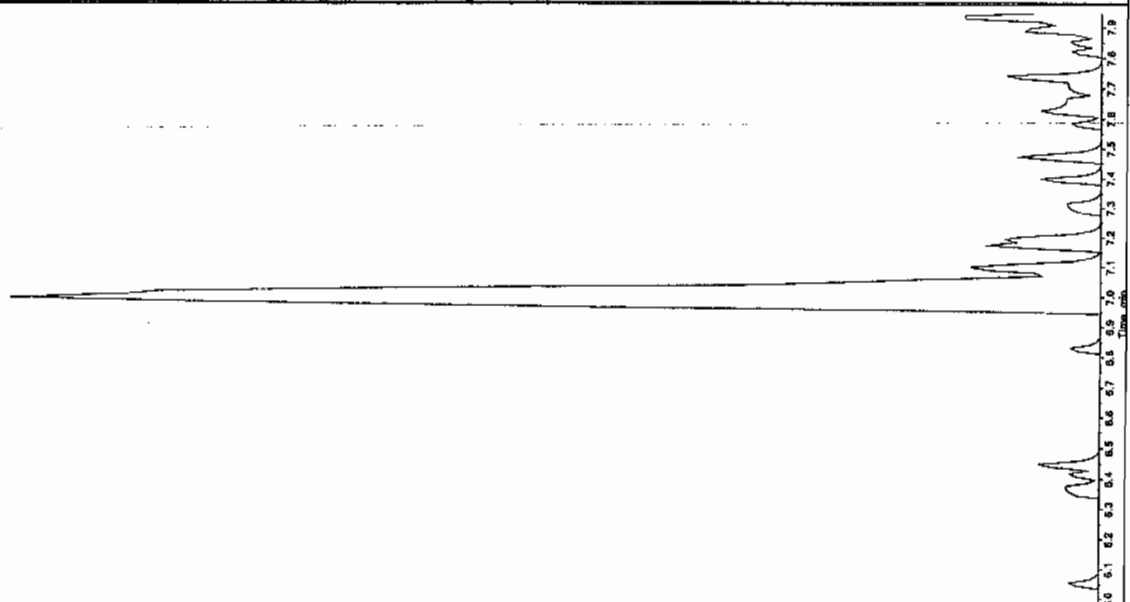
Sample Name: "246434010" Sample ID: "95008721ER" File: "EXS03010142.wif"
Peak Name: "1A1B" Mass(es): 257.0204.9 amu
Comment: "LCX83212S" Annotation: "

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/2/2010
Acq. Time: 10:03:13 PM
Modified: No



Sample Name: "246434010" Sample ID: "95008721ER" File: "EXS03010142.wif"
Peak Name: "35-Dinitroaniline" Mass(es): 182.046.0 amu
Comment: "LCX83212S" Annotation: "

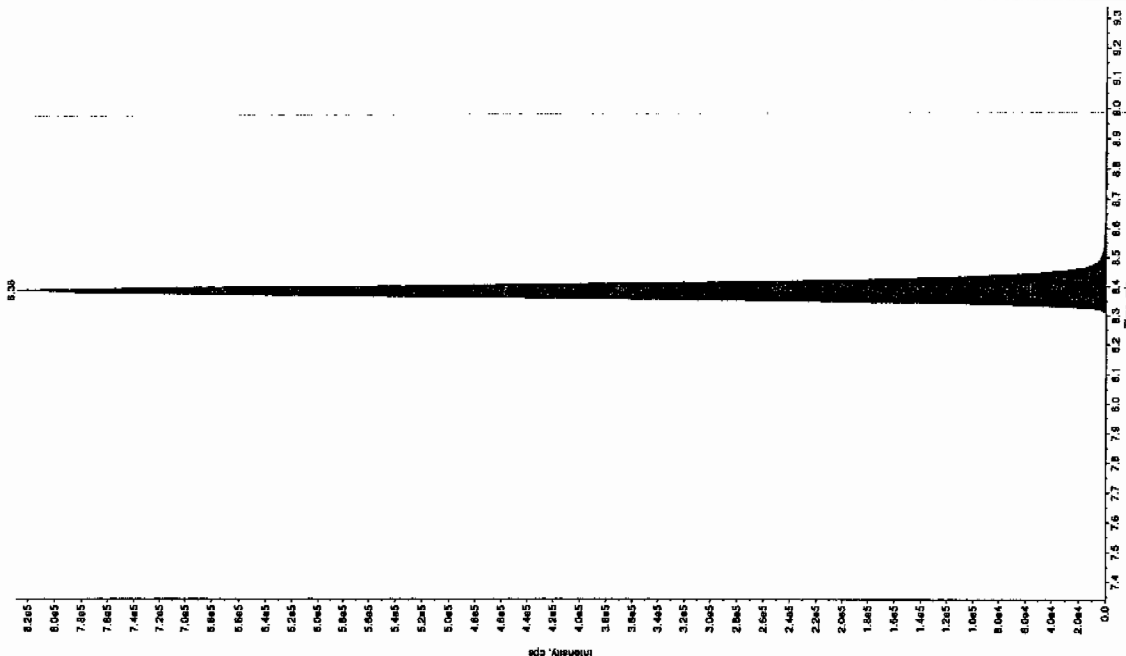
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/2/2010
Acq. Time: 10:03:13 PM
Modified: No



HW-03/04/10

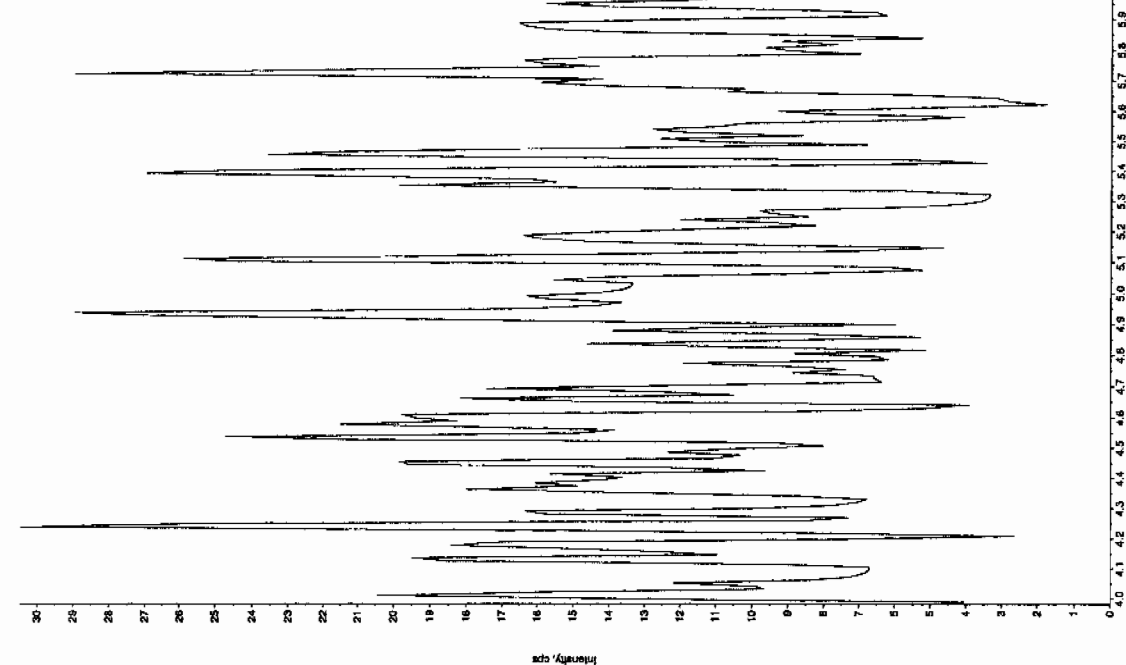
Sample Name: "24634010" Sample ID: "95008721ER" File: "EX503010142.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1151.9 amu"
 Comment: "LCX832125" Annotation: "A"

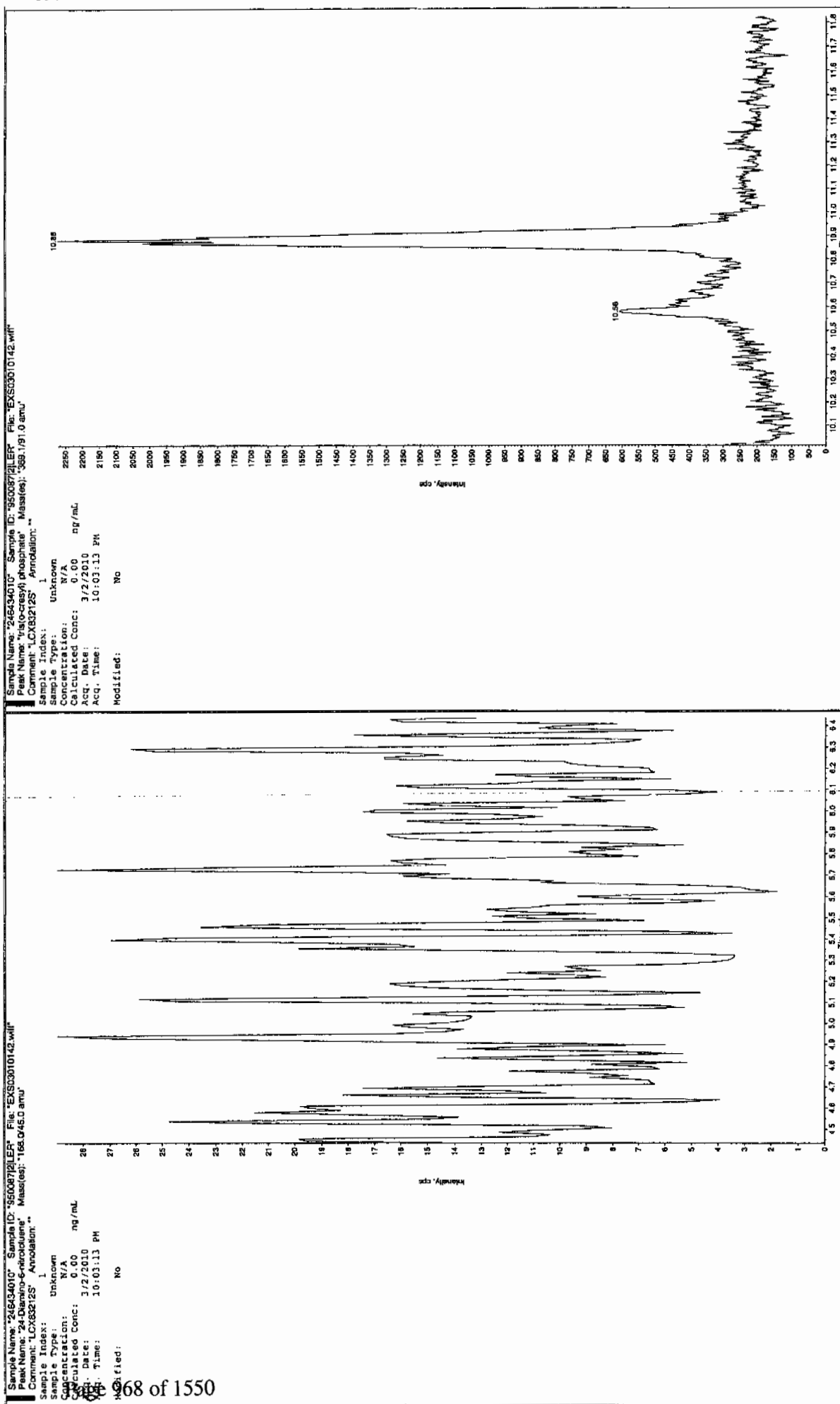
Sample Index: 1
 Sample Type: Unknown
 Concentration: 213 ng/mL
 Calculated Conc: 3/2/2010
 Acq. Date: 10:03:13 PM
 Acq. Time: 10:03:13 PM
 Modified: No
 Peak: Algorithm: IntelliQuan - IQA
 Ret. Peak Height: 1460.00 cps
 Ret. Peak Width: 0.00 sec
 Ret. Peak Area: 3 points
 Ret. Window: 15.0 sec
 Ret. Relative RT: 8.34 min
 Ret. Relative RT: No
 Int. Type: Valley
 Retention Time: 8.38 min
 Area: 2.84e+006 counts
 Height: 823121.460 cps
 Start Time: 8.33 min
 End Time: 8.73 min



Sample Name: "24634010" Sample ID: "95008721ER" File: "EX503010142.wif"
 Peak Name: "26-Diantho-4-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: "A"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 10:03:13 PM
 Modified: No





1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8336

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434011

Sample Amount 2

Moisture: 17.6

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323034a

Date Analyzed: 24-MAR-10 01:22

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0323034a

Date: 24-Mar-2010

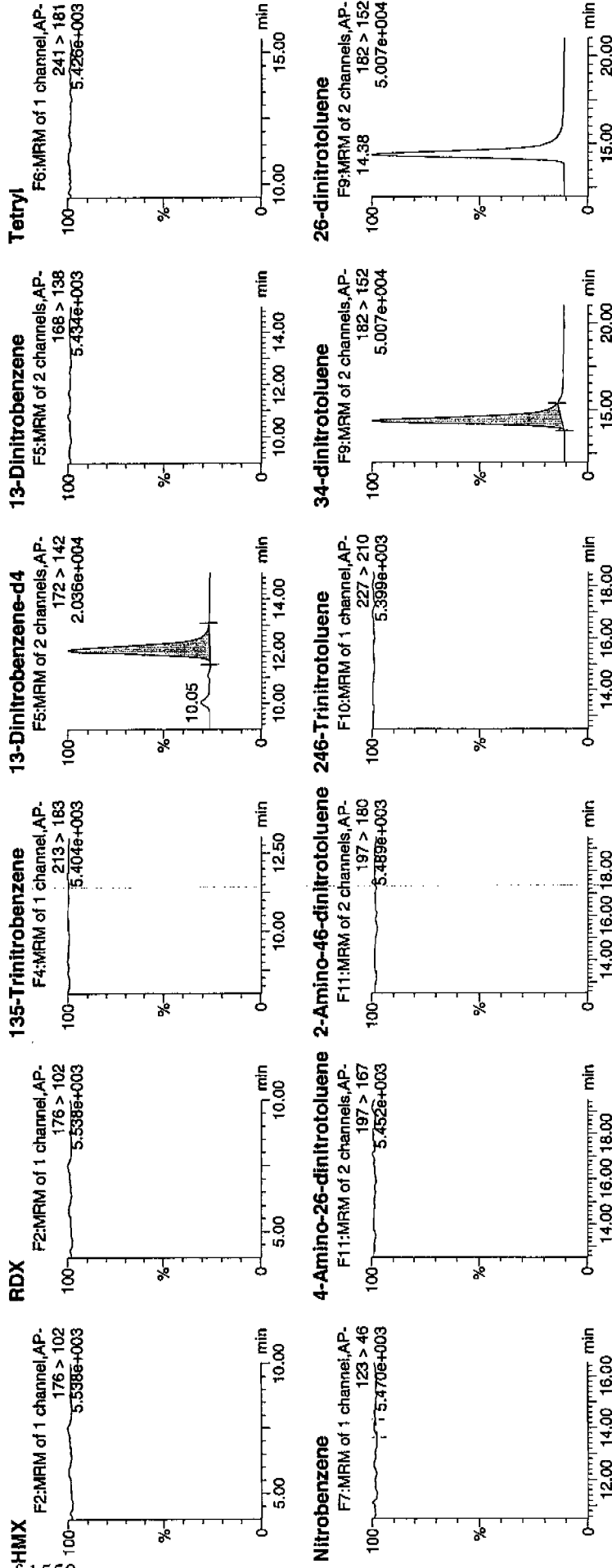
Time: 01:22:03

ID: 246434011

Vial: 2-3,B

4477
3/24/10

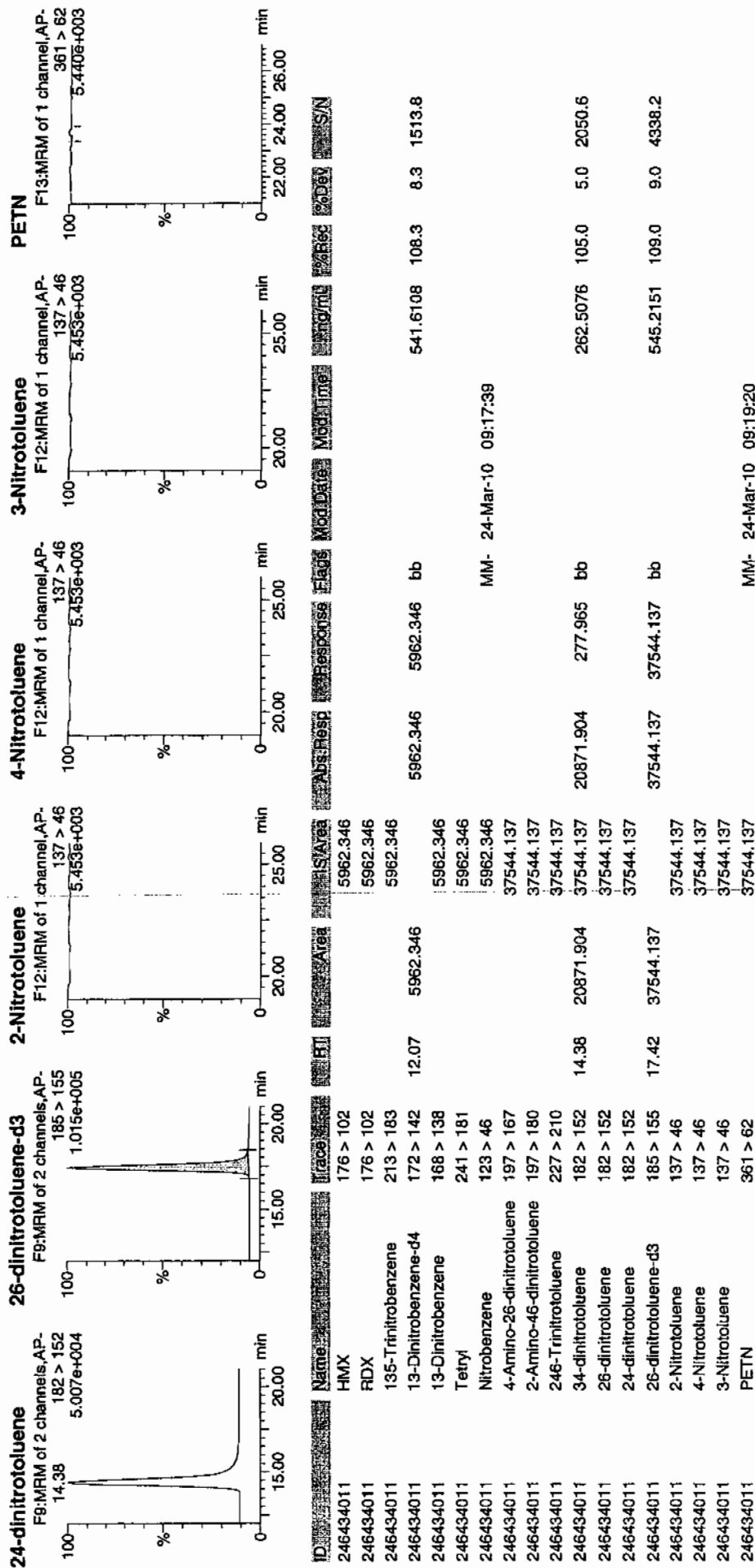
LAU 950087 (802) 21



hmm
03/24/10

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYN\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8336

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434011

Sample Amount 2

Moisture: 17.6

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010143.wiff

Date Analyzed: 02-MAR-10 22:18

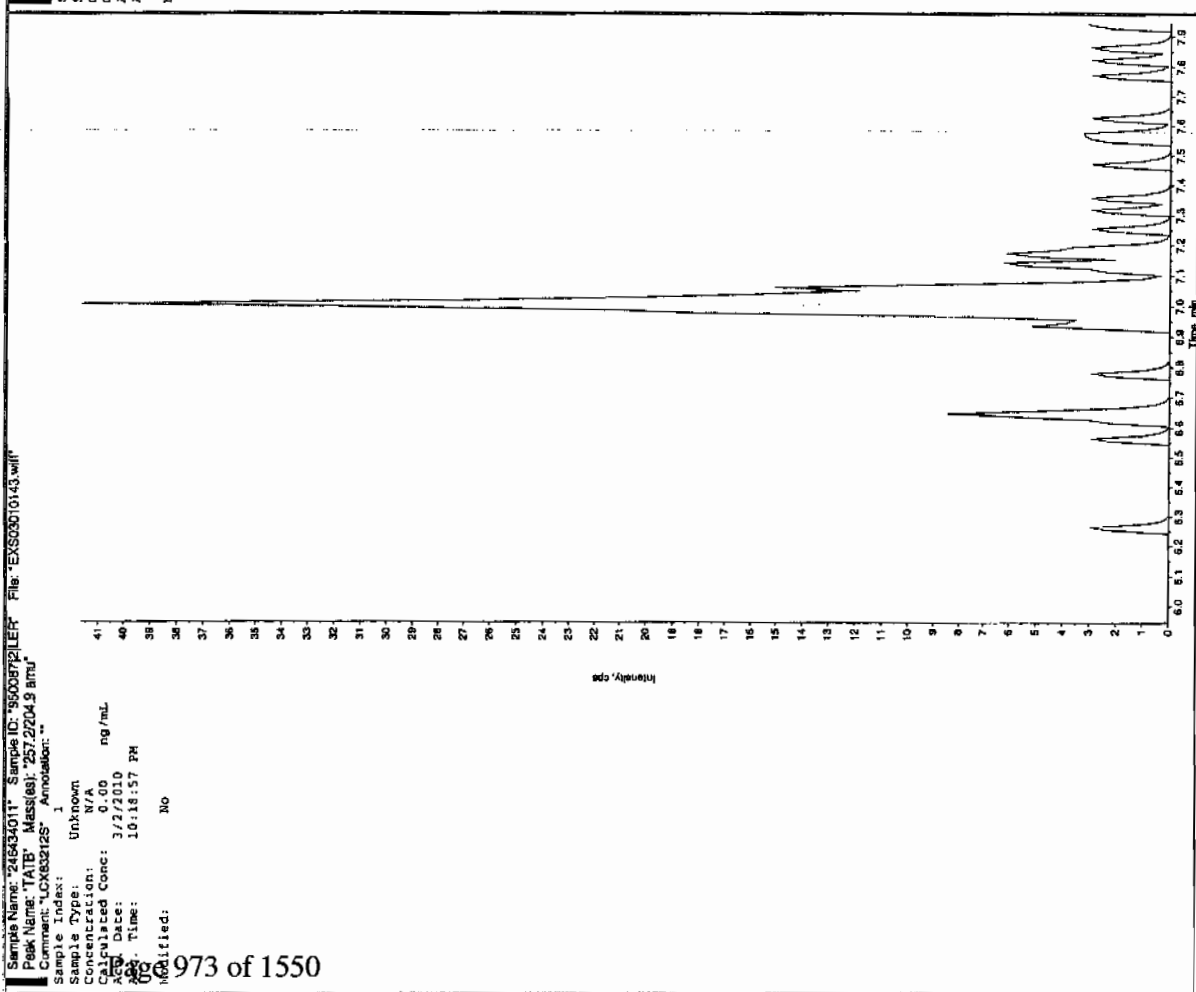
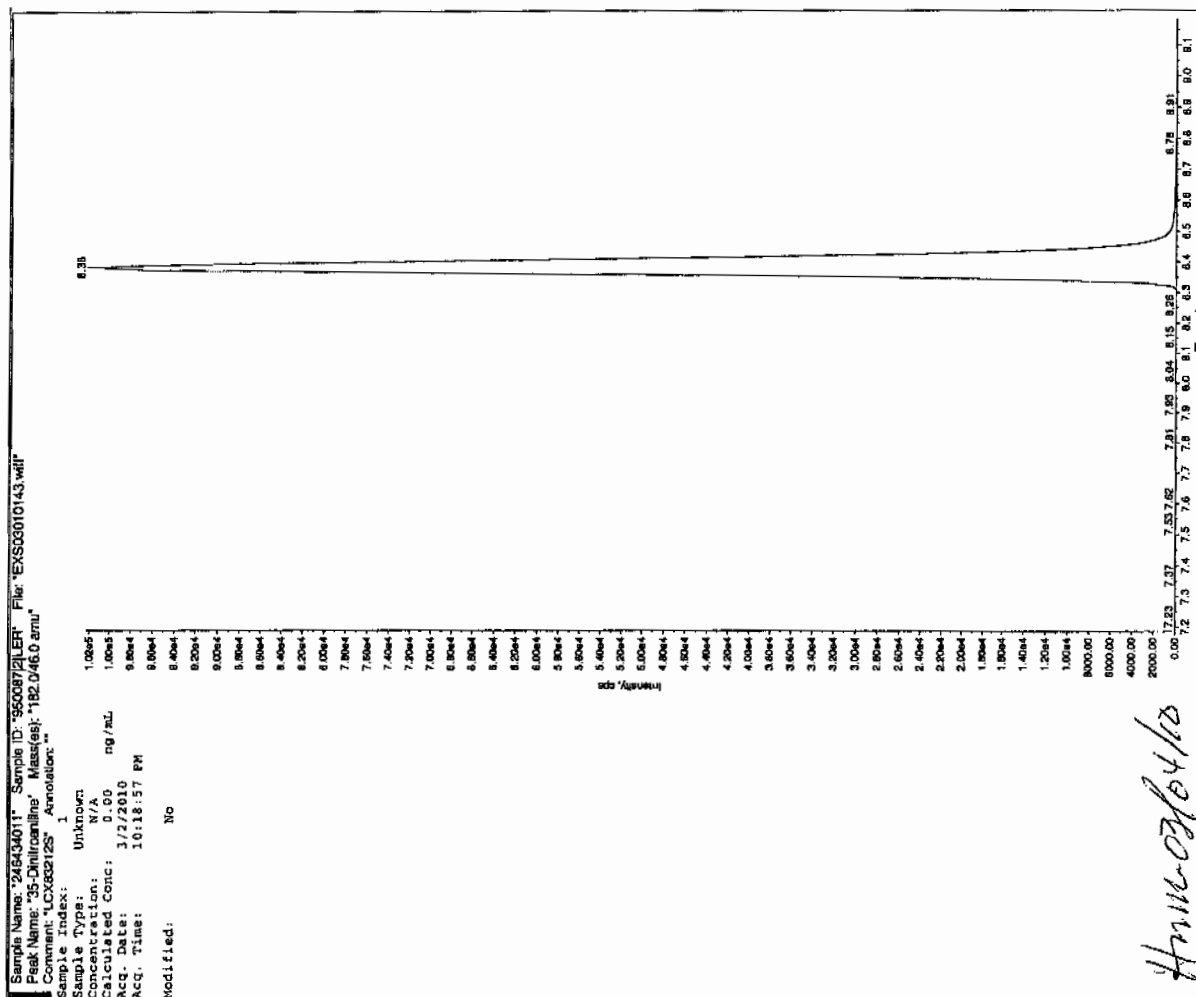
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

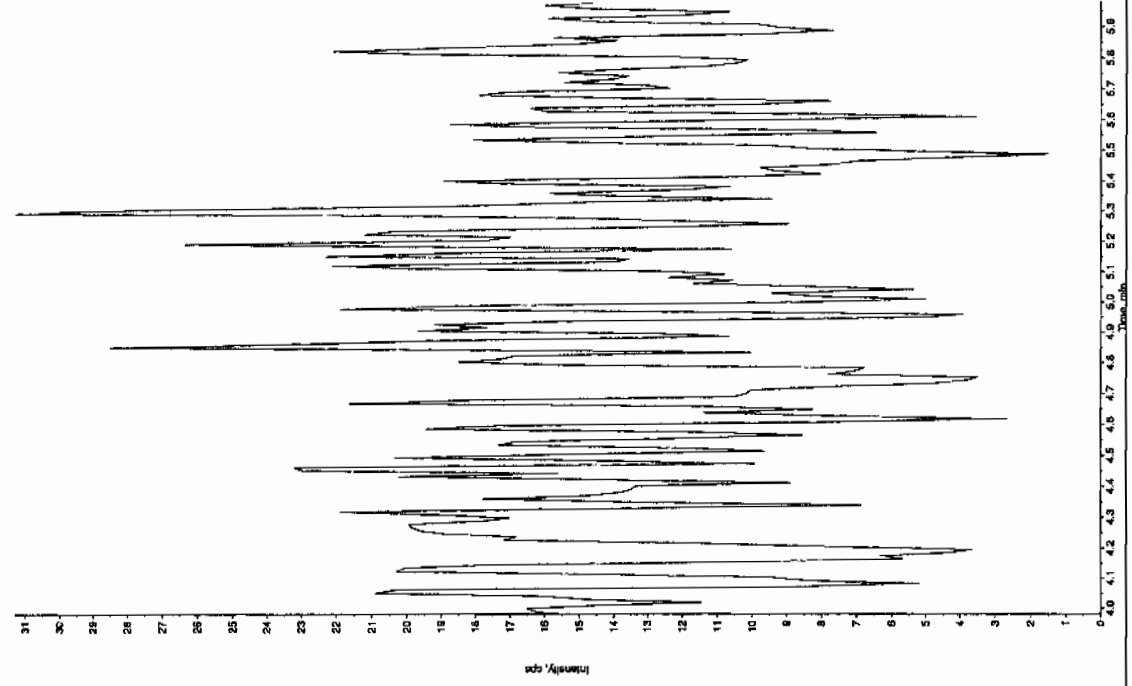
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

01/12/10
JAN 12 10



Sample Name: "246434011" Sample ID: "95009721.ER" File: "EXS03010143.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

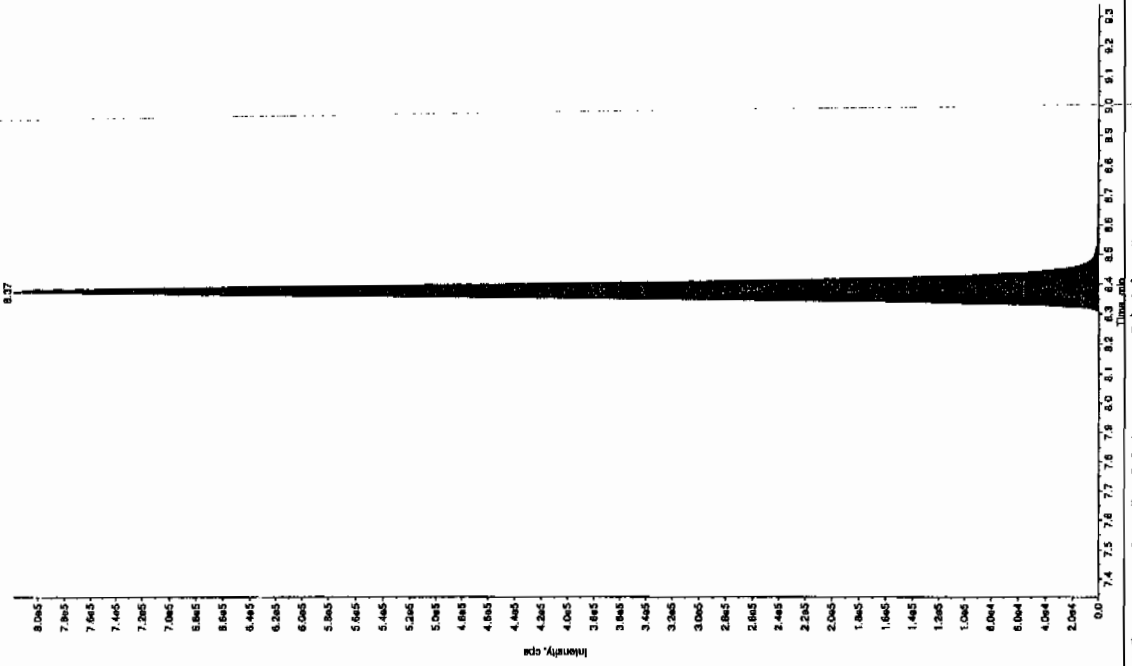
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 10:18:57 PM
 Modified: No

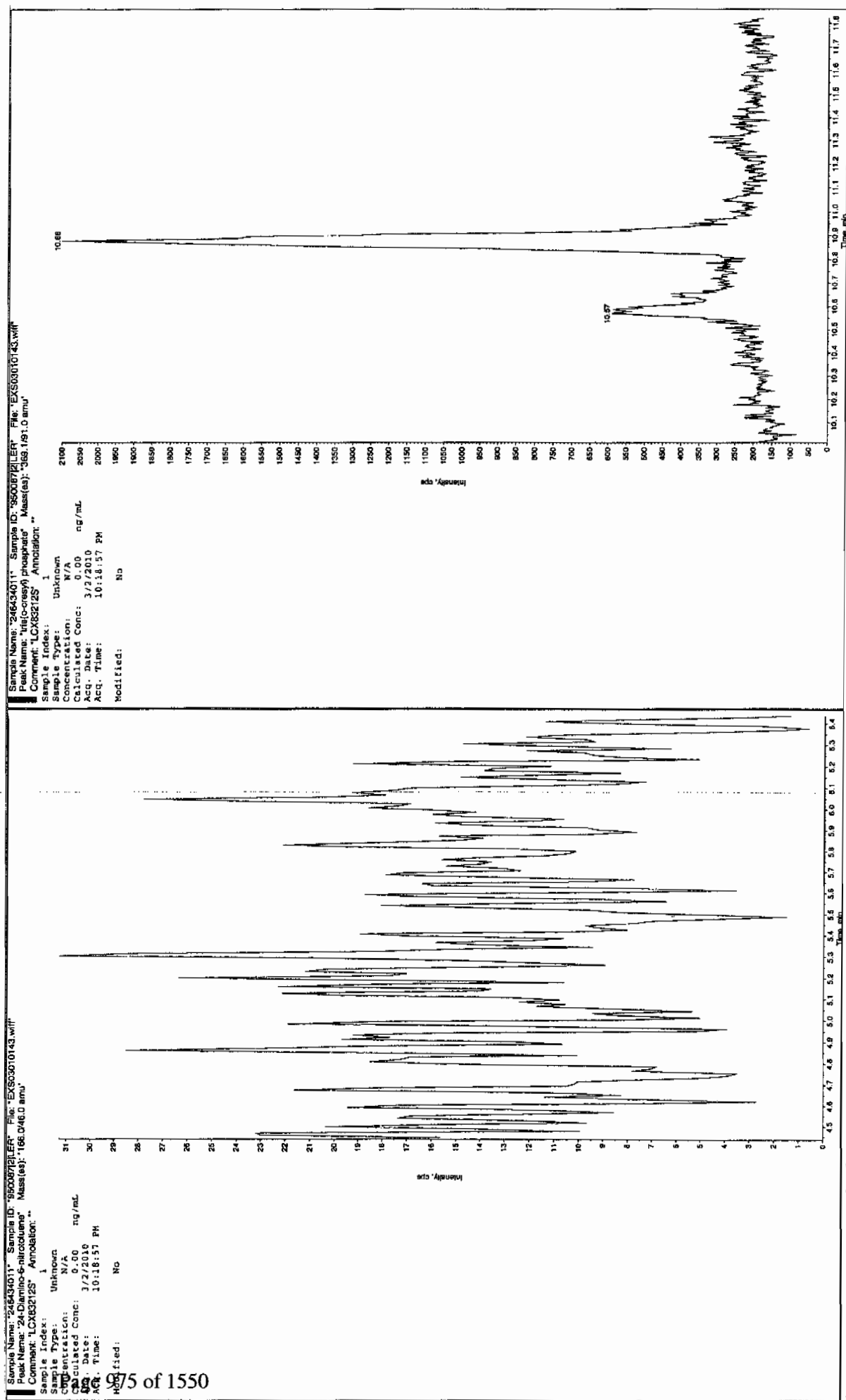


Sample Name: "246434011" Sample ID: "95009721.ER" File: "EXS03010143.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1151.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 234. ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 10:18:57 PM
 Modified: No

QC Algorithm: IntelliQuan - IGA
 Ret. Peak Height: 160.00 cps
 Ret. Peak Width: 0.00 sec
 Ret. Peak Area: 15.0 points
 Ret. Peak RT: 8.34 min
 Ret. Peak Type: No
 Ret. Peak Valley: No
 Ret. Peak Retention Time: 8.37 min
 Ret. Peak Area: 2.85e+005 counts
 Ret. Peak Height: 81859.365 cps
 Ret. Peak Start Time: 8.25 min
 Ret. Peak End Time: 8.70 min





1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8339

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434012

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323035a

Date Analyzed: 24-MAR-10 01:51

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0323035a

Date: 24-Mar-2010

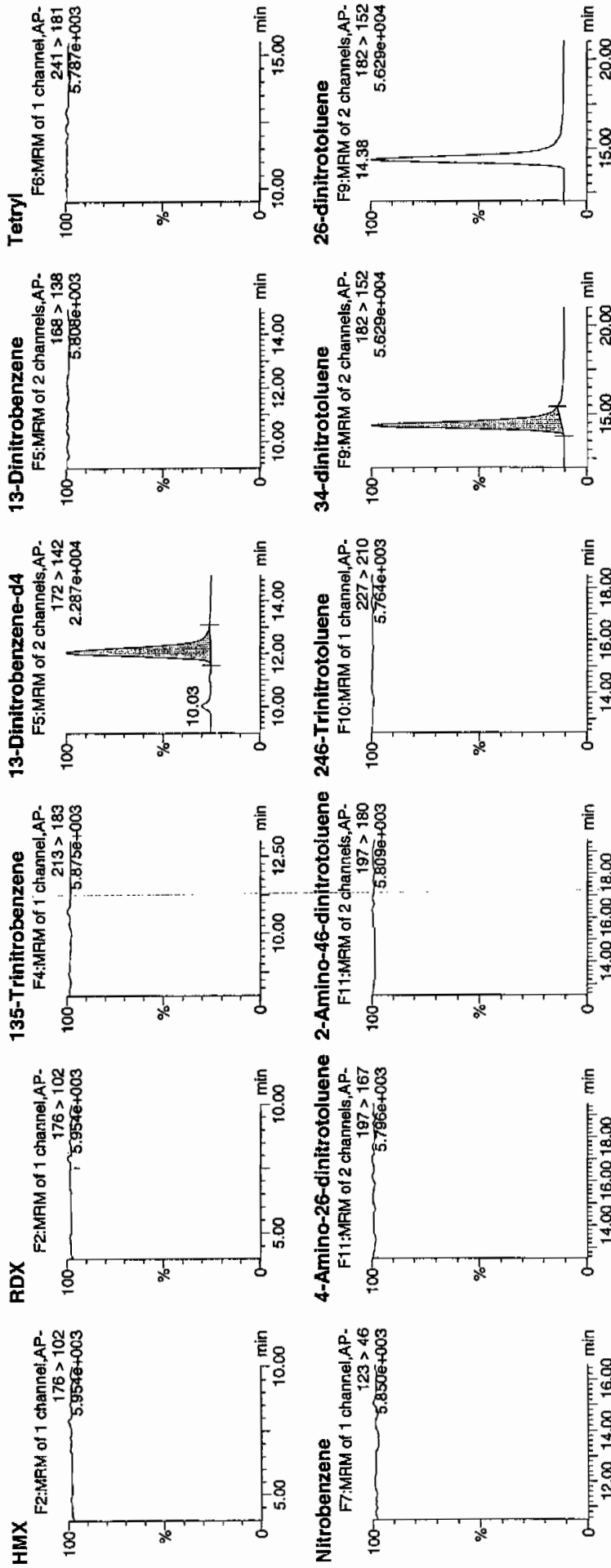
Time: 01:51:32

ID: 246434012

Vial: 2:3,C

4077
3/24/10

WAVE | 950087 | 8022 | 21

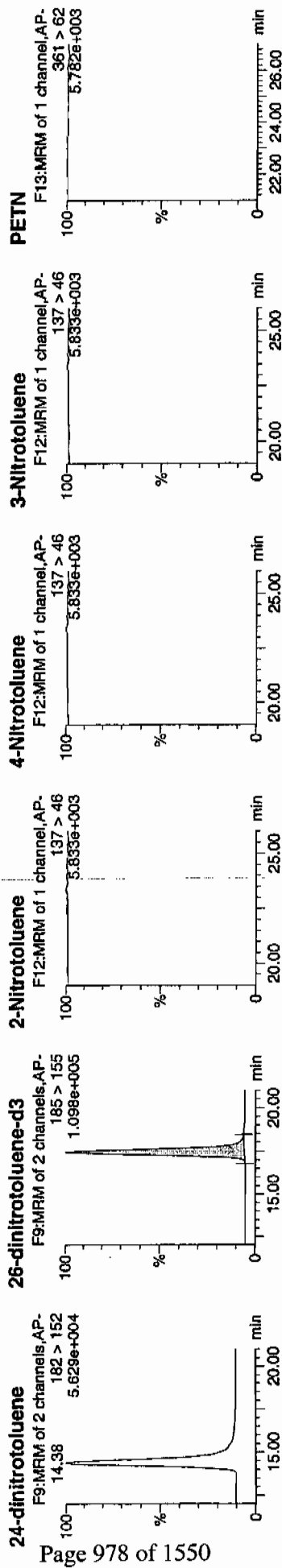


4077
03/24/10

Printed: Wed Mar 24 09:32:17 2010, Page 70 of 99

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PROV032310expA.qtd, Time: Wed Mar 24 09:29:41 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc (mg/ml)	%Rec	%Dev	SN
246434012	HMX	176 > 102			6811.633									
246434012	ROX	176 > 102			6811.633				MM-	24-Mar-10	09:16:02			
246434012	135-Trinitrobenzene	213 > 183			6811.633									
246434012	13-Dinitrobenzene-d4	172 > 142	12.07	6811.633		6811.633	6811.633	bb			618.7588	123.8	23.8	772.1
246434012	13-Dinitrobenzene	168 > 138			6811.633									
246434012	Tetryl	241 > 181			6811.633									
246434012	Nitrobenzene	123 > 46			6811.633									
246434012	4-Amino-26-dinitrotoluene	197 > 167			41056.965									
246434012	2-Amino-46-dinitrotoluene	197 > 180			41056.965									
246434012	246-Trinitrotoluene	227 > 210			41056.965									
246434012	34-dinitrotoluene	182 > 152	14.38	23969.979	41056.965	23969.979	291.911	bb			275.6784	110.3	10.3	1037.3
246434012	26-dinitrotoluene	182 > 152			41056.965									
246434012	24-dinitrotoluene	182 > 152			41056.965									
246434012	26-dinitrotoluene-d3	185 > 155	17.42	41056.965		41056.965	41056.965	bb			596.2283	119.2	19.2	3926.6
246434012	2-Nitrotoluene	137 > 46			41056.965									
246434012	4-Nitrotoluene	137 > 46			41056.965									
246434012	3-Nitrotoluene	137 > 46			41056.965									
246434012	PETN	361 > 62			41056.965									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8339

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434012

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010144.wiff

Date Analyzed: 02-MAR-10 22:34

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

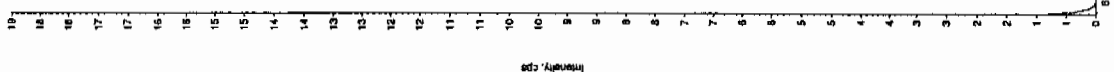
*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

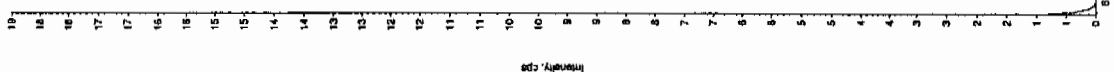
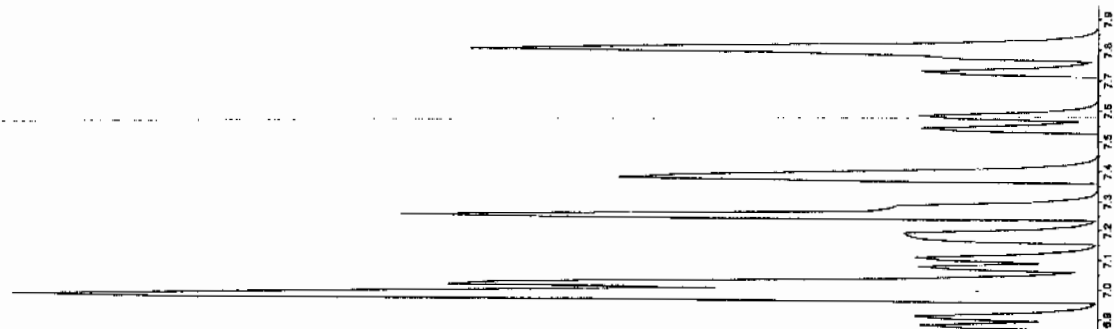
8/27/10
JF

Sample Name: "246434012" Sample ID: "95006721ER" File: "EXS03010144.will"
Peak Name: "1A1B" Mass(es): "257.2704.9 amu"
Comment: "LCX83212S" Annotation: "

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 3/2/2010
Acq. Time: 10:34:41 PM
Modified: No



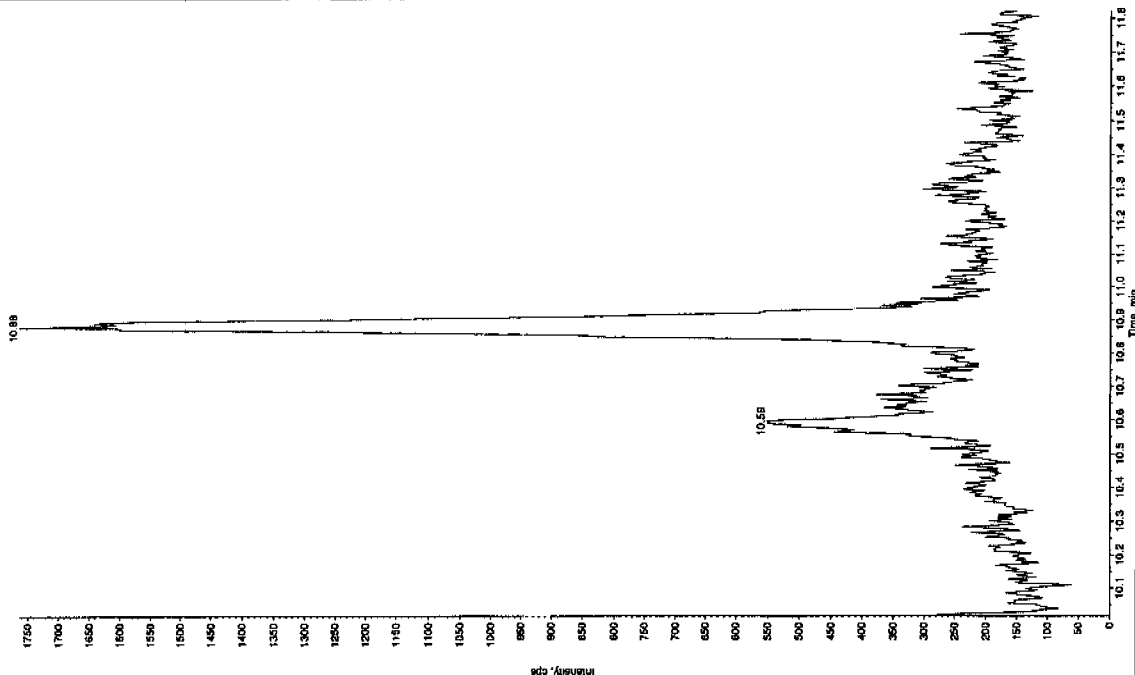
Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 3/2/2010
Acq. Time: 10:34:41 PM
Modified: No



8/27/10
JF

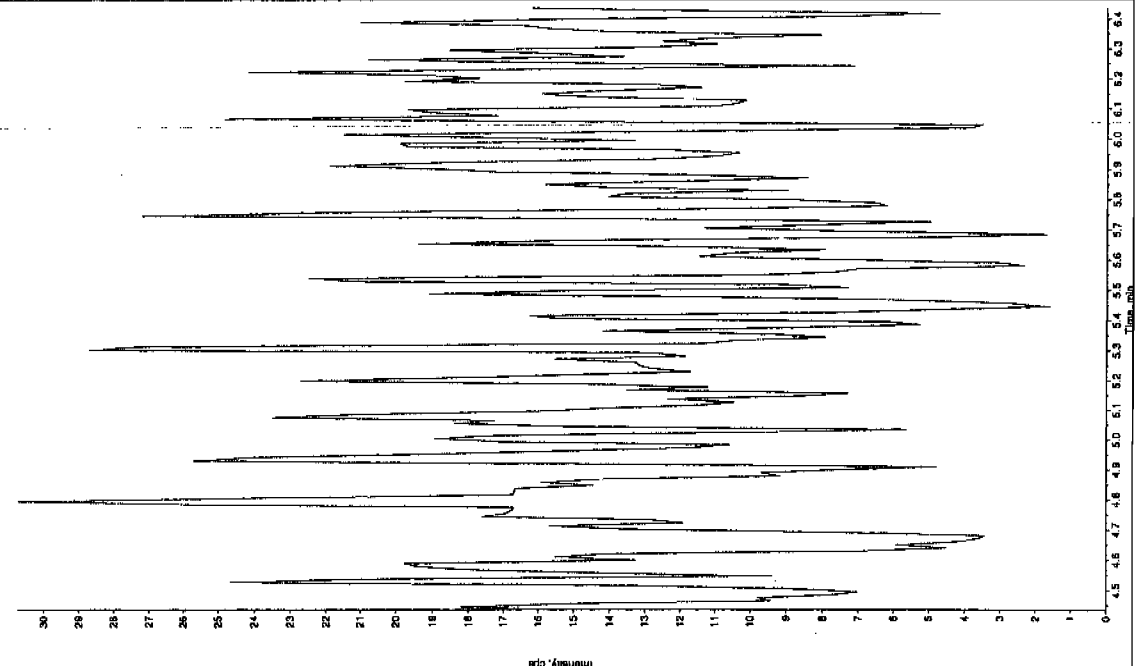
Sample Name: "24634012" Sample ID: "95008721ER" File: "EX503010144.will"
 Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.181.0 amu"
 Comment: "LCX632125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 10:34:41 PM
 Modified: No



Sample Name: "24634012" Sample ID: "95008721ER" File: "EX503010144.will"
 Peak Name: "24-Diamino-5-nitrothiophene" Mass(es): "166.046.0 amu"
 Comment: "LCX632125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 10:34:41 PM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8337

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434013

Sample Amount 2

Moisture: 11.4

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323039a

Date Analyzed: 24-MAR-10 03:49

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value	X	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		<u>Sample Amount</u>		

Printed: Wed Mar 24 09:32:17 2010, Page 77 of 99

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO1032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP\PRO1Data\EXP0323039a

Date: 24-Mar-2010

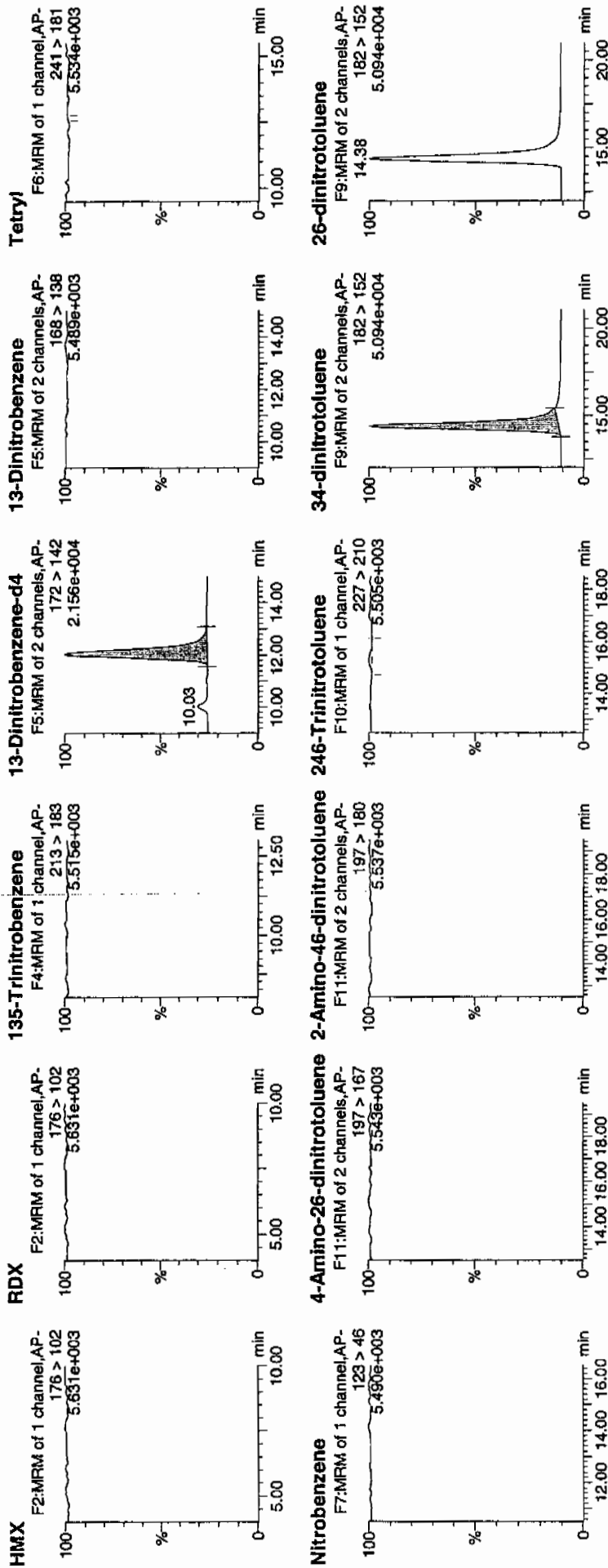
Time: 03:49:34

ID: 246434013

Vial: 2:3,D

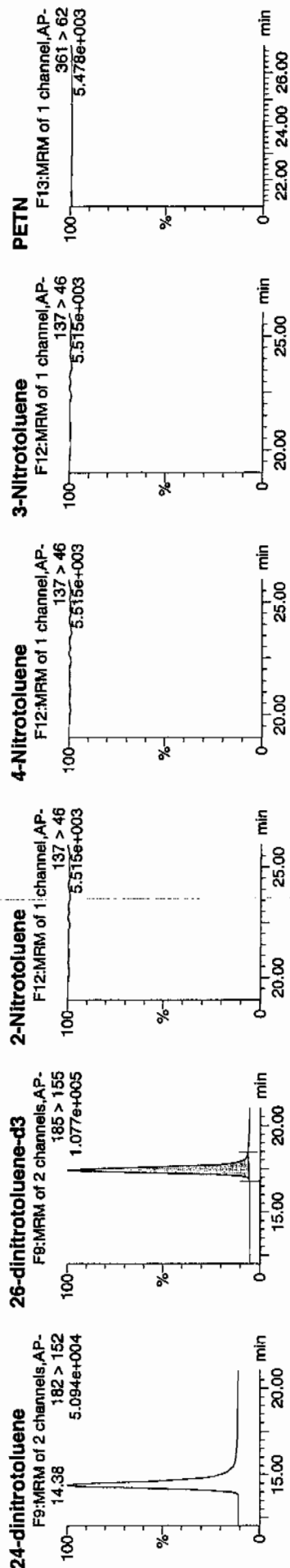
Auth
3/24/10

WAV/950087/8021/21



Amw
03/24/10

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



ID	Name	Trace	RT	Area	SArea	Abs. Resp	Response	Flags	Mod. Date	Mod. Time	Unit/mL	%Rec	%Dev	SN
246434013	HMX	176 > 102			6514.134									
246434013	RDX	176 > 102			6514.134									
246434013	135-Trinitrobenzene	213 > 183			6514.134									
246434013	13-Dinitrobenzene-d4	172 > 142	12.03	6514.134		6514.134	6514.134	bb			591.7344	118.3	18.3	377.9
246434013	13-Dinitrobenzene	168 > 138												
246434013	Tetryl	241 > 181			6514.134									
246434013	Nitrobenzene	123 > 46			6514.134				MM-	24-Mar-10	09:17:24			
246434013	4-Amino-26-dinitrotoluene	197 > 167			40818.664									
246434013	2-Amino-46-dinitrotoluene	197 > 180			40818.664									
246434013	246-Trinitrotoluene	227 > 210			40818.664									
246434013	34-dinitrotoluene	182 > 152	14.38	21715.049	40818.664	21715.049	265.994	bb	MM-	24-Mar-10	09:18:29	251.2025	100.5	0.5
246434013	26-dinitrotoluene	182 > 152			40818.664									
246434013	24-dinitrotoluene	182 > 152			40818.664									
246434013	26-dinitrotoluene-d3	185 > 155	17.42	40818.664		40818.664	40818.664	bb			592.7677	118.6	18.6	1245.8
246434013	2-Nitrotoluene	137 > 46			40818.664									
246434013	4-Nitrotoluene	137 > 46			40818.664									
246434013	3-Nitrotoluene	137 > 46			40818.664									
246434013	PETN	361 > 62			40818.664									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8337

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434013

Sample Amount 2

Moisture: 11.4

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010145.wiff

Date Analyzed: 02-MAR-10 22:50

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

01/13/10
Jen

Sample Name: "246434013" Sample ID: "95008721LER" File: "EX503010145.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCX632125" Annotation: ""

Sample Index: 1

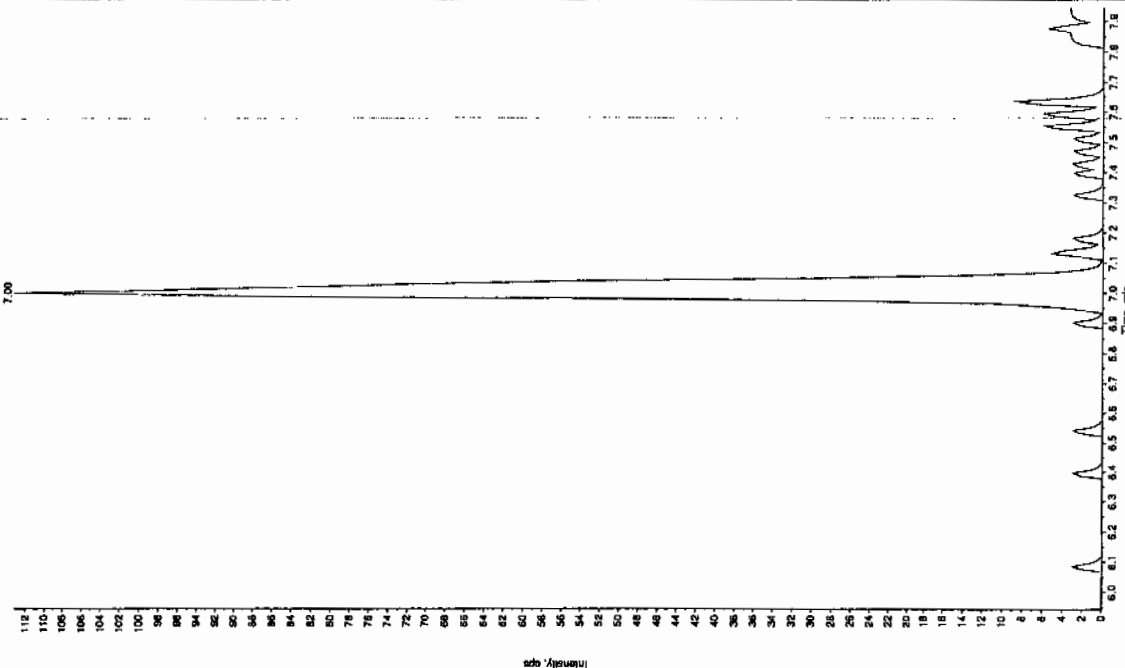
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/2/2010

Acq. Time: 10:50:24 PM

Modified: No



Sample Name: "246434013" Sample ID: "95008721LER" File: "EX503010145.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.0460.0 amu"

Comment: "LCX632125" Annotation: ""

Sample Index: 1

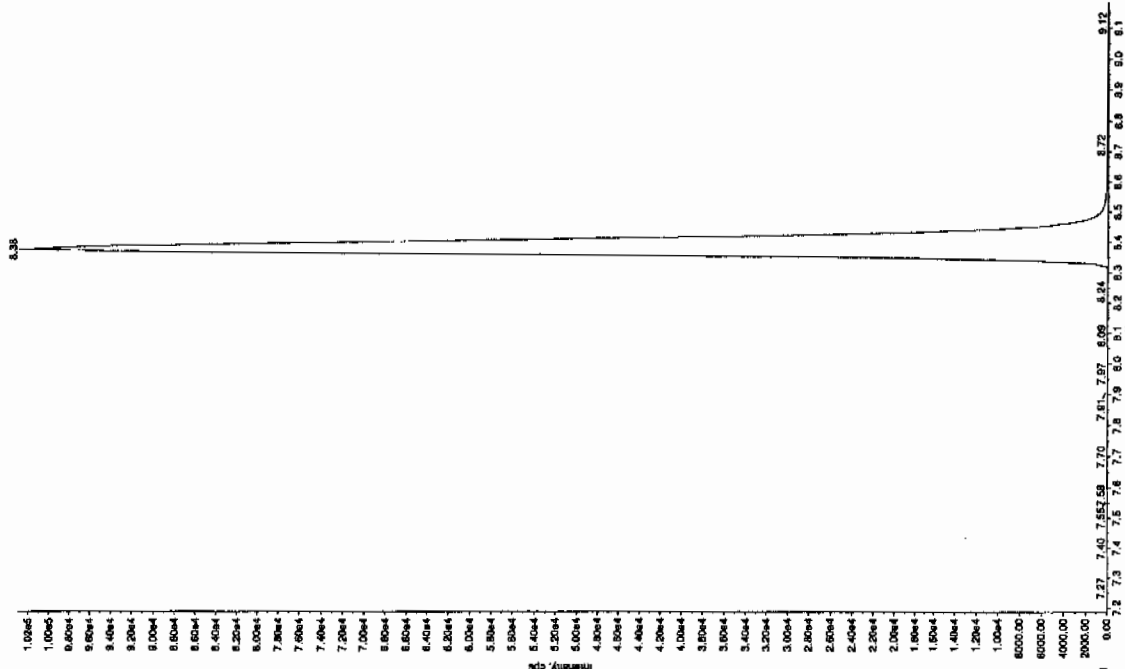
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Concentration: 0.00 ng/mL

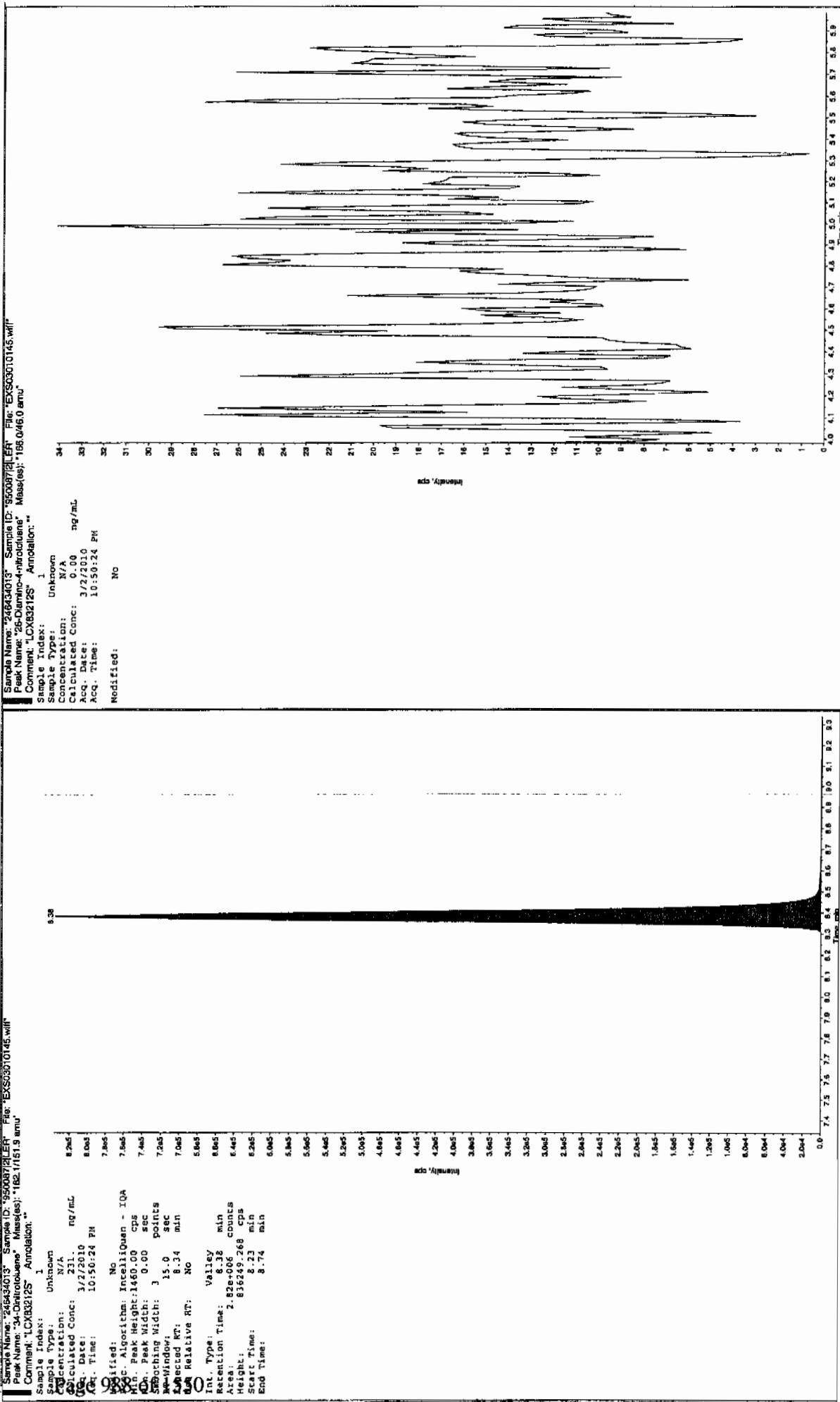
Acq. Date: 3/2/2010

Acq. Time: 10:50:24 PM

Modified: No

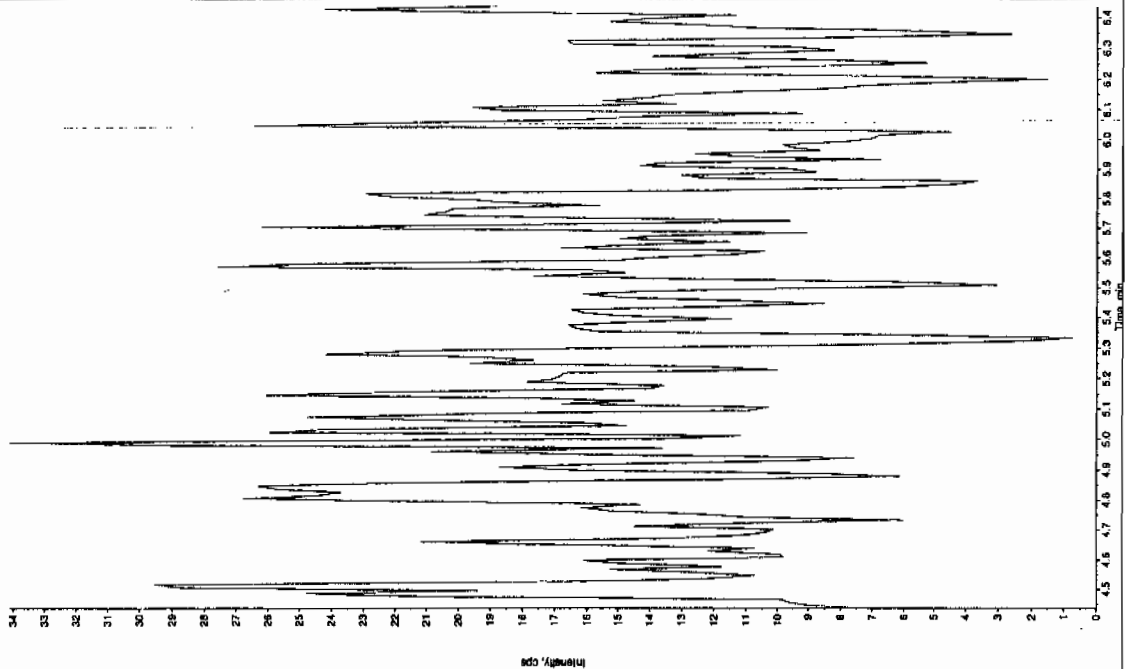


Handwritten signature/initials



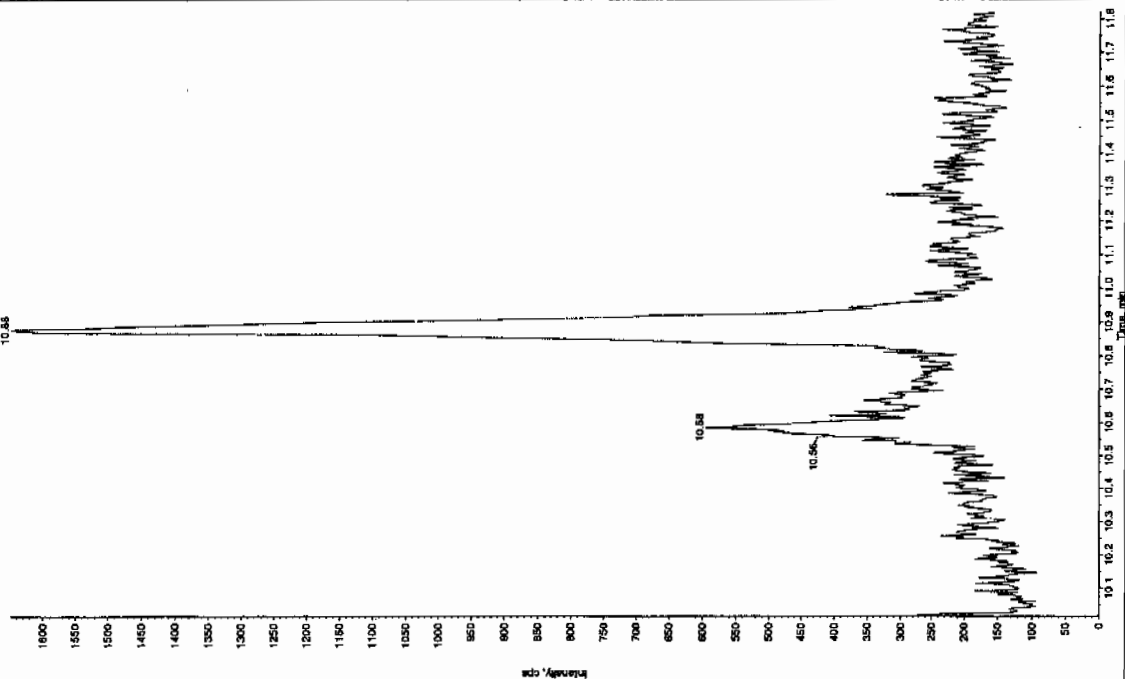
Sample Name: "246434013" Sample ID: "95008721LER" File: "EX803010145.wif"
 Peak Name: "24-Diamino-5-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/2/2010
 Acq. Date: 10:50:24 PM
 Acq. Time: 10:50:24 PM
 Modified: No



Sample Name: "246434013" Sample ID: "95008721LER" File: "EX803010145.wif"
 Peak Name: "bis(cresyl) phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/2/2010
 Acq. Date: 10:50:24 PM
 Acq. Time: 10:50:24 PM
 Modified: No



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8375

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434014

Sample Amount 2

Moisture: 19.7

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323040a

Date Analyzed: 24-MAR-10 04:19

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Name: C:\MASSLYNX\NEW_EXP\PRO\032310expA.qld\EXP0323040a

Date: 24-Mar-2010

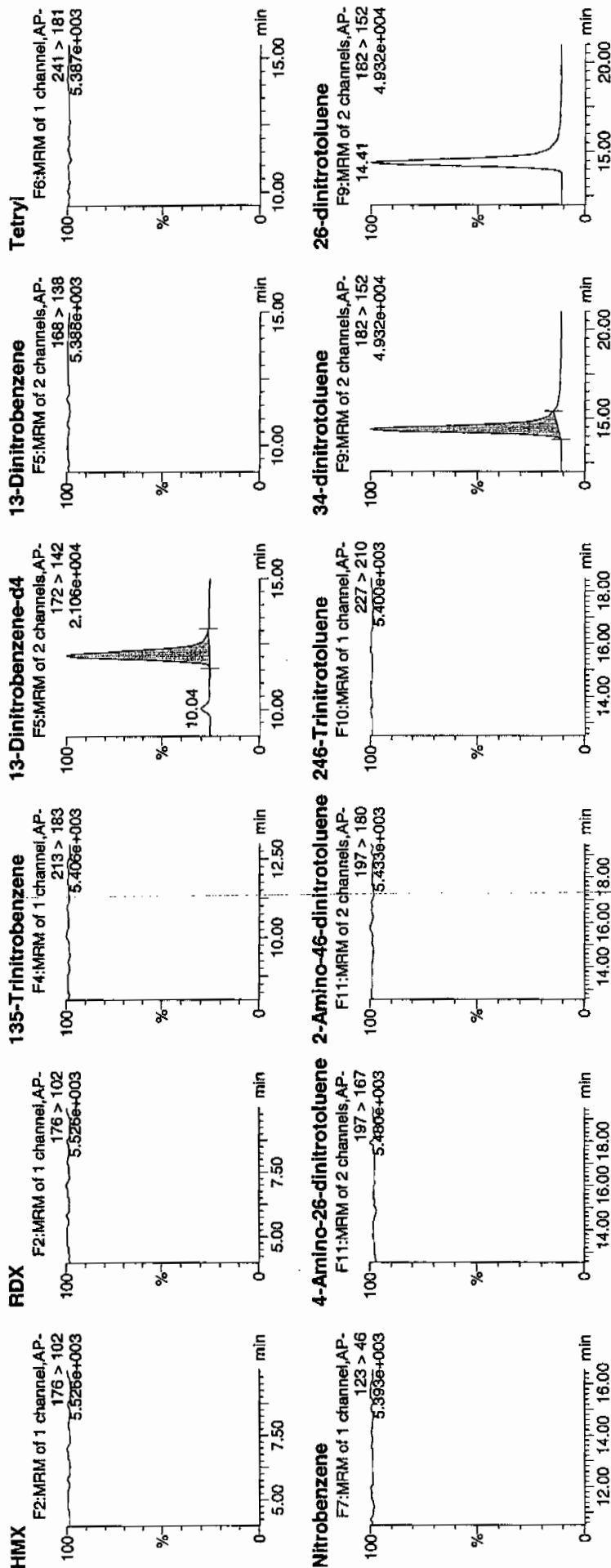
Time: 04:19:05

ID: 246434014

Vial: 2:3,E

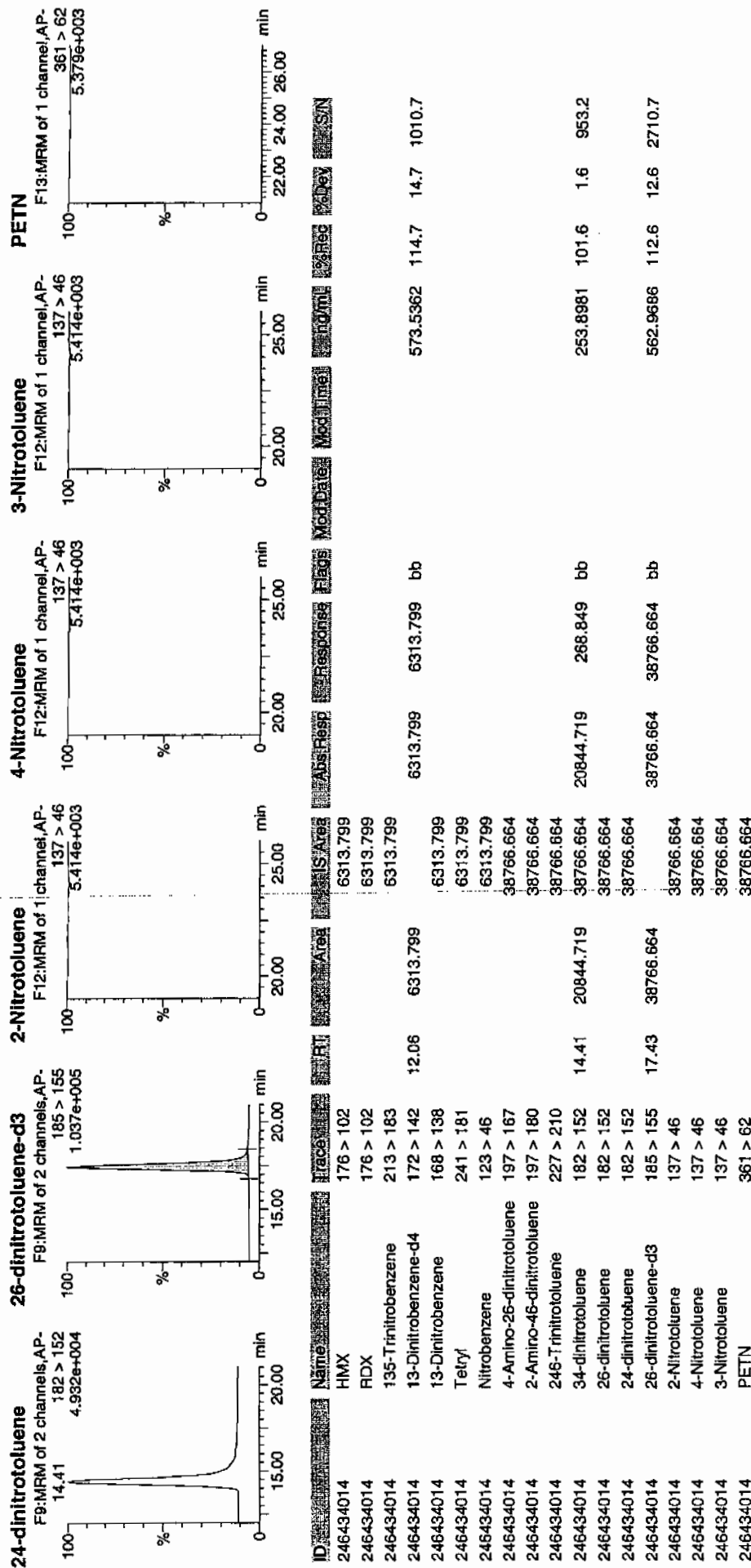
1477
3/24/10

121
1950087 / 500000



1477
3/24/10

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8375

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434014

Sample Amount 2

Moisture: 19.7

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010146.wiff

Date Analyzed: 02-MAR-10 23:06

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument	X	<u>Concentrated Extract Volume</u>	X	Dilution
Value		<u>Sample Amount</u>		Factor

8/13/10

Sample Name: "245434014" Sample ID: "95008721LER" File: "EXS03010146.wif"

Peak Name: "TATB" Mass(es): "257.2/204.9 amu"

Comment: "LCX632125" Annotation: ""

Sample Index: 1

Sample Type: Unknown

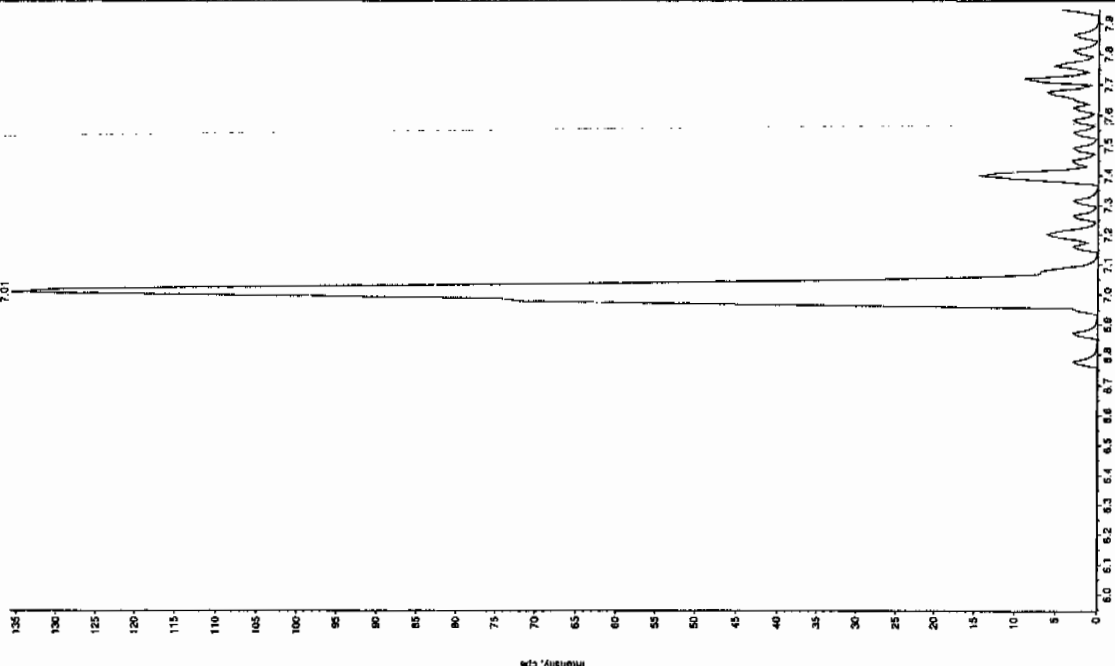
Concentration: 0.00 ng/mL

Calculated Conc: 3/2/2010

Acq. Date: 11:06:06 PM

Acq. Time: 11:06:06 PM

Modified: No



Sample Name: "245434014" Sample ID: "95008721LER" File: "EXS03010146.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.0/146.0 amu"

Comment: "LCX632125" Annotation: ""

Sample Index: 1

Sample Type: Unknown

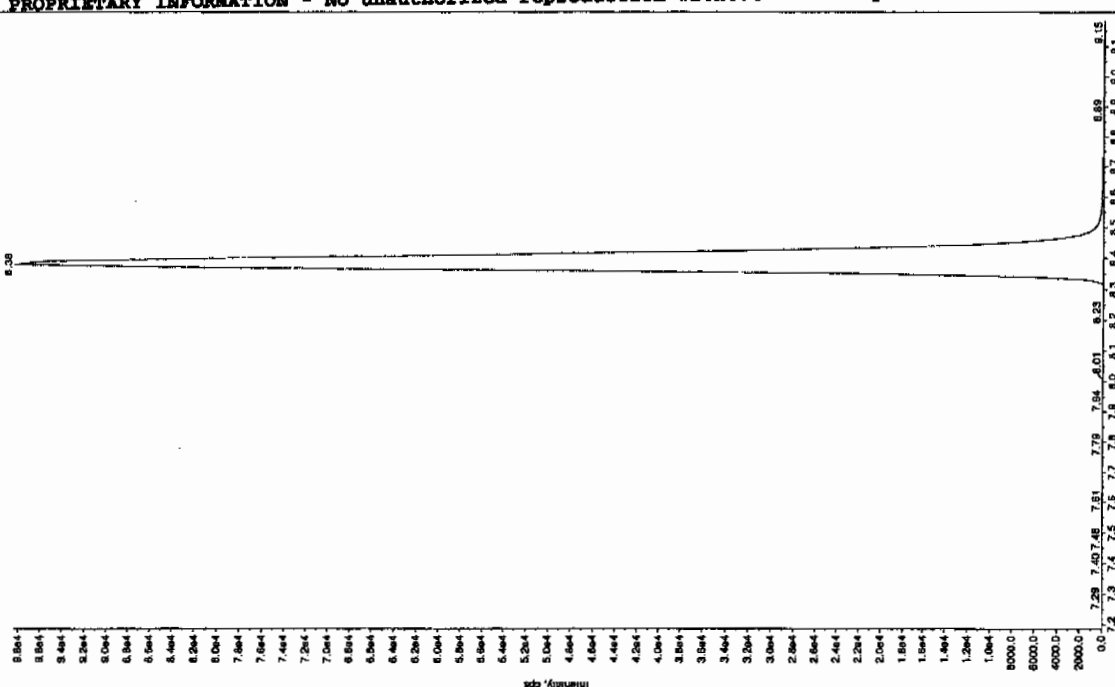
Concentration: 0.00 ng/mL

Calculated Conc: 3/2/2010

Acq. Date: 11:06:06 PM

Acq. Time: 11:06:06 PM

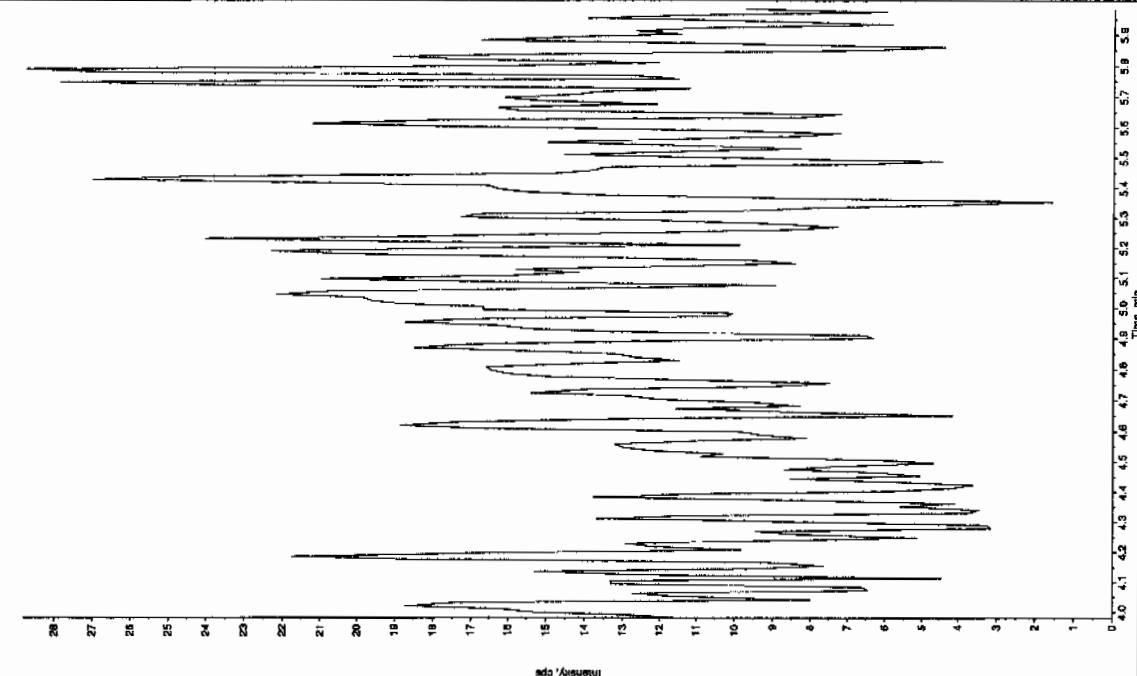
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8/13/10

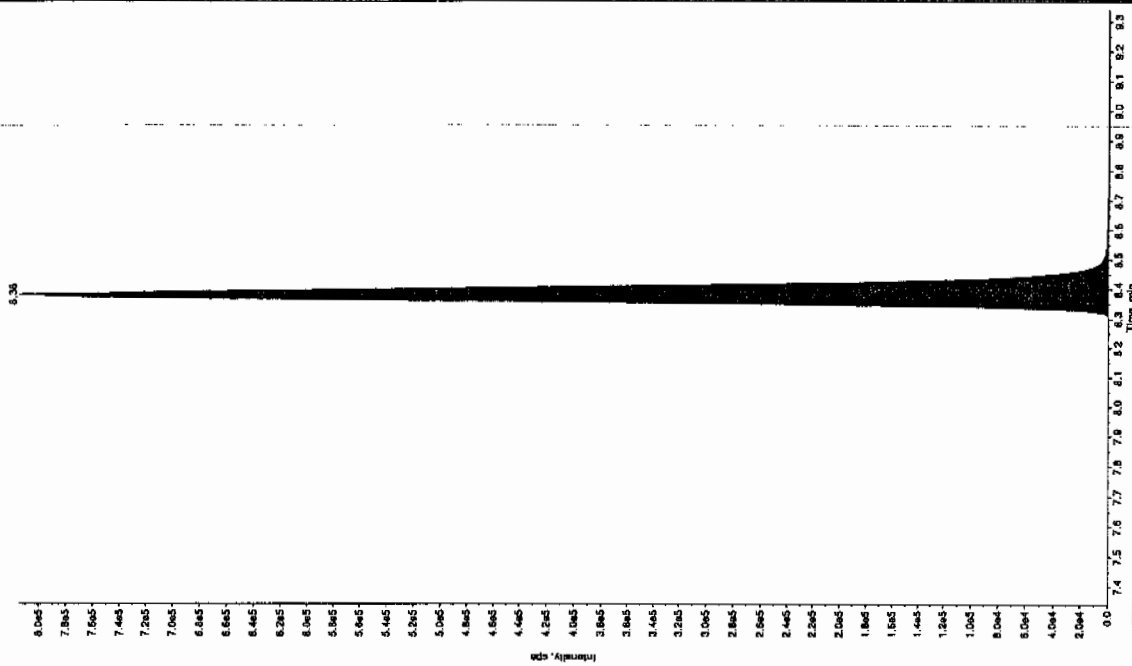
Sample Name: "246434014" Sample ID: "95008721ER" File: "EX503010148.wif"
 Peak Name: "25-Diamino-4-nitrotoluene" Mass(es): "168.0460 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 11:06:06 PM
 Modified: No



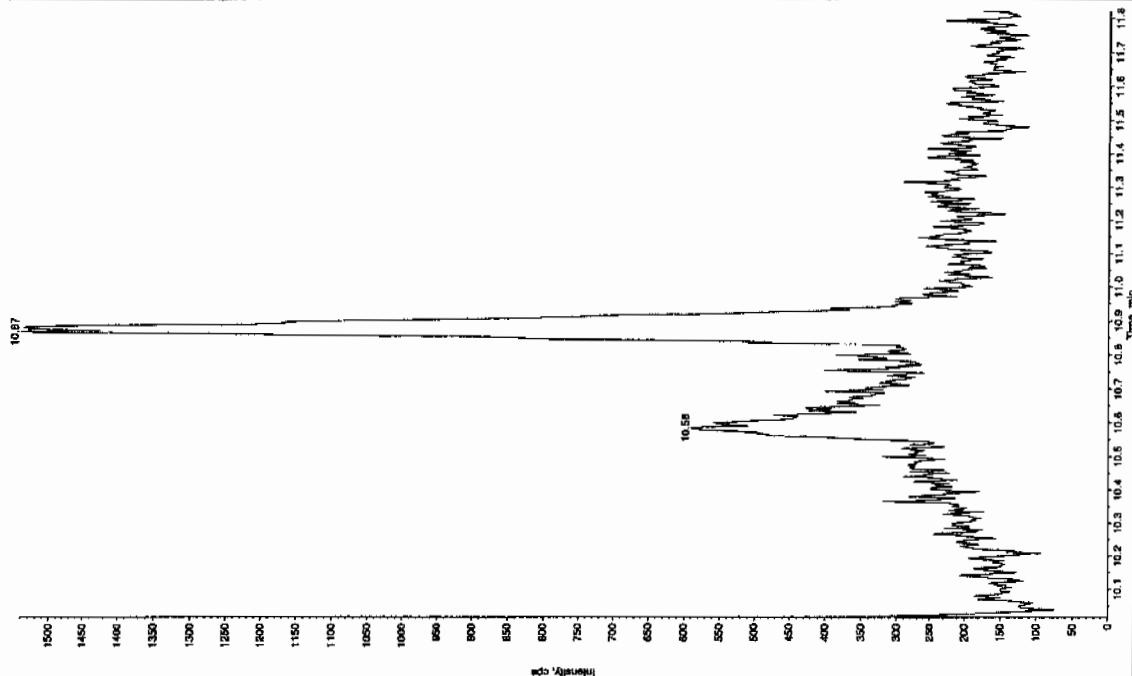
Sample Name: "246434014" Sample ID: "95008721ER" File: "EX503010148.wif"
 Peak Name: "34-Diaminotoluene" Mass(es): "182.1715 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 232.
 Acq. Date: 3/2/2010
 Acq. Time: 11:06:06 PM
 Modified: No
 Acquisition: Intelligible - ION
 No. Peak Height: 1460.00 cps
 No. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Window: 15.0 sec
 Expected RT: 8.34 min
 RT Relative RT: No
 Type: Valley
 Retention Time: 8.38 min
 Area: 2.83e+006 counts
 Height: 815073.120 cps
 Start Time: 8.29 min
 End Time: 8.72 min



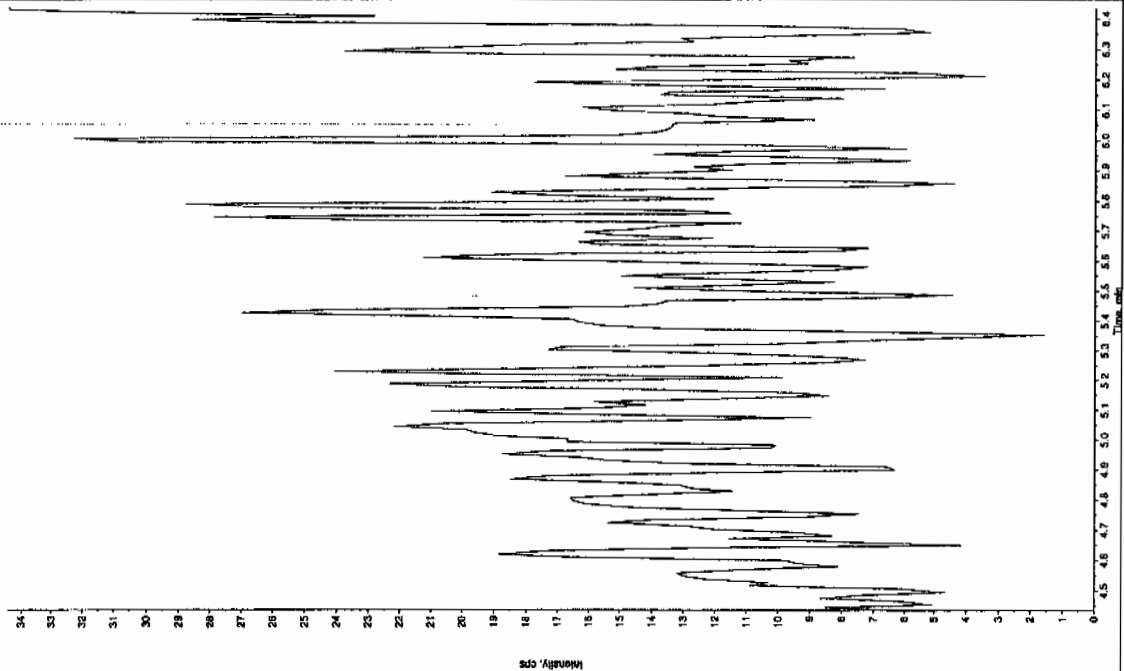
Sample Name: "246434014" Sample ID: "950087212" File: "EX650010148.wif"
 Peak Name: "tris(oxomethyl) phosphine" Mass(es): 369.191.0 amu
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 11:06:06 PM
 Modified: No



Sample Name: "246434014" Sample ID: "950087212" File: "EX650010148.wif"
 Peak Name: "24-Diamine-6-nitroalkene" Mass(es): 156.046.0 amu
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 11:06:06 PM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8374

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434015

Sample Amount 2

Moisture: 6.3

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323041a

Date Analyzed: 24-MAR-10 04:48

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323041a

Date: 24-Mar-2010

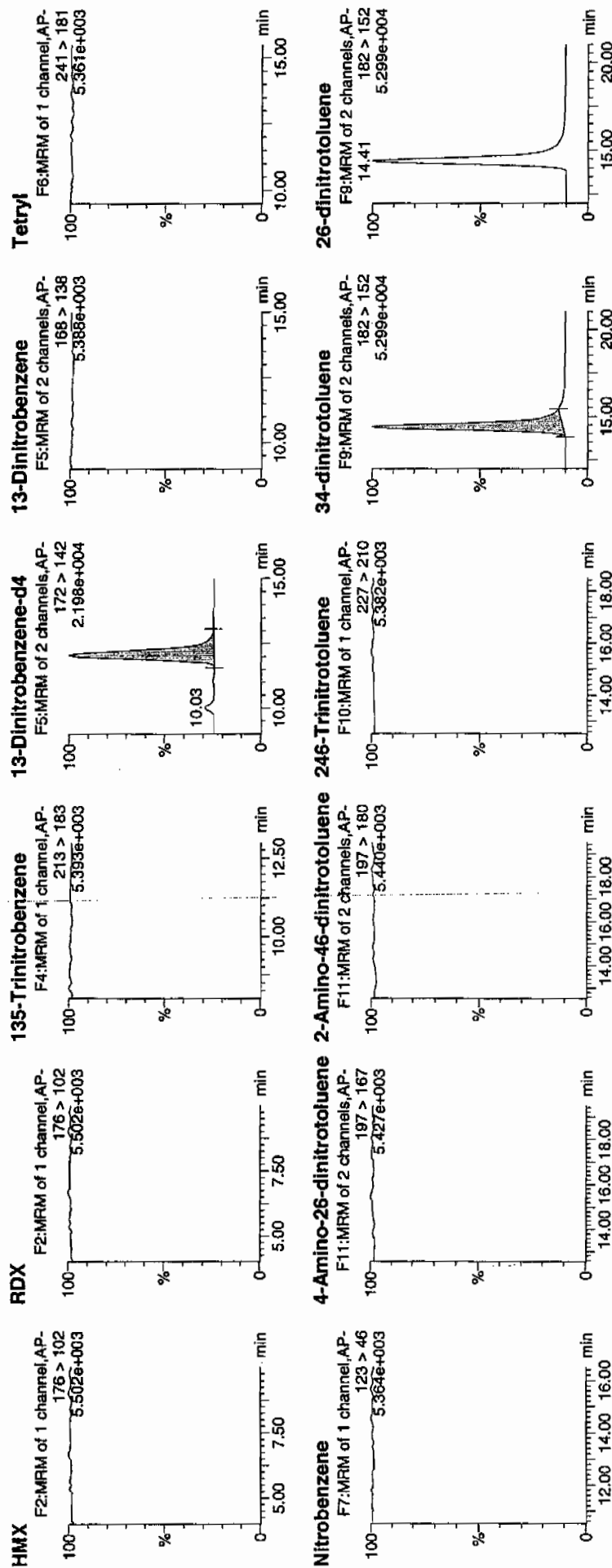
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ID: 246434015

Vial: 2:3,F

not
3/24/10

LAB 950087 / SOL 121



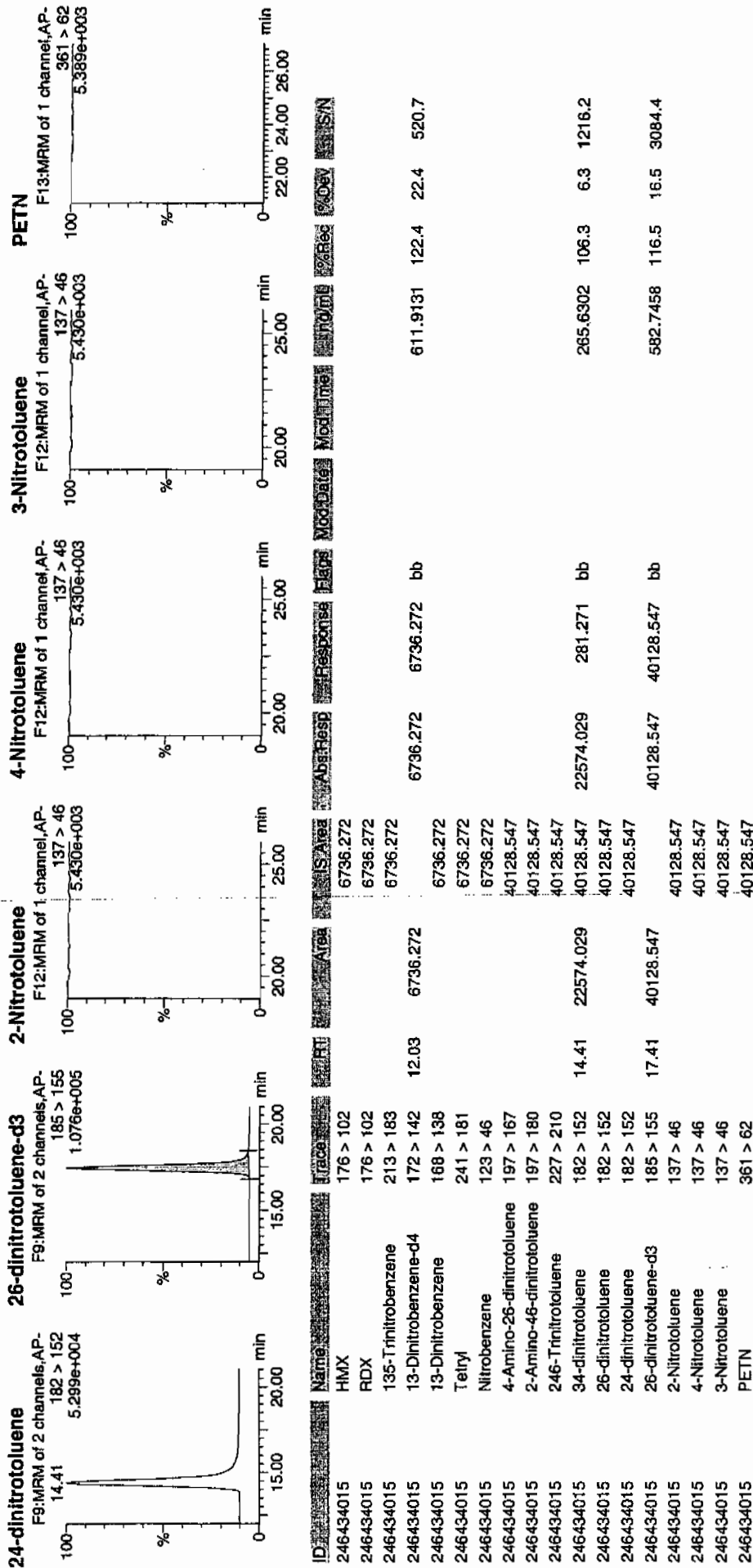
Handwritten note: 3/24/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 82 of 99

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8374

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 246434015

Sample Amount 2

Moisture: 6.3

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010147.wiff

Date Analyzed: 02-MAR-10 23:21

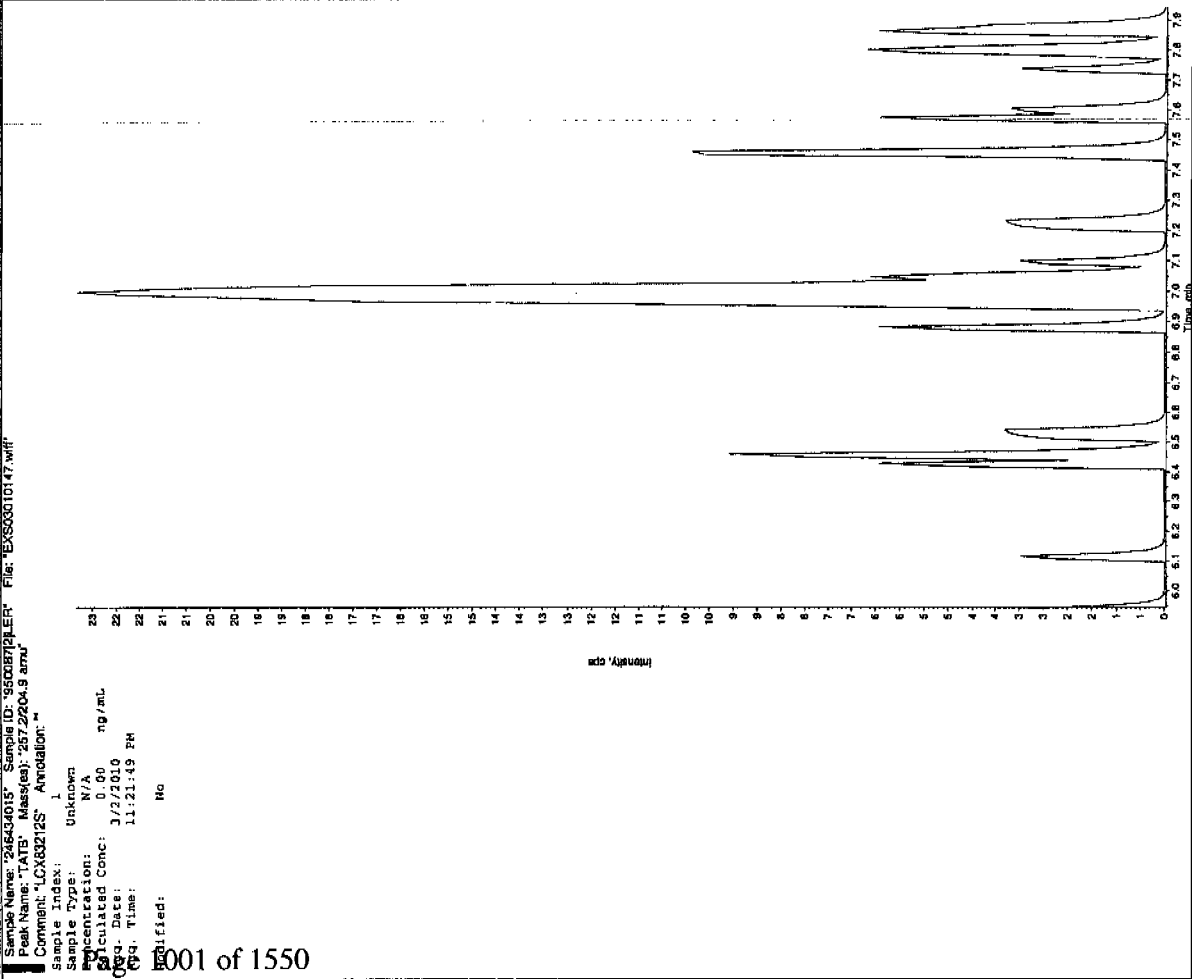
Units: ug/kg

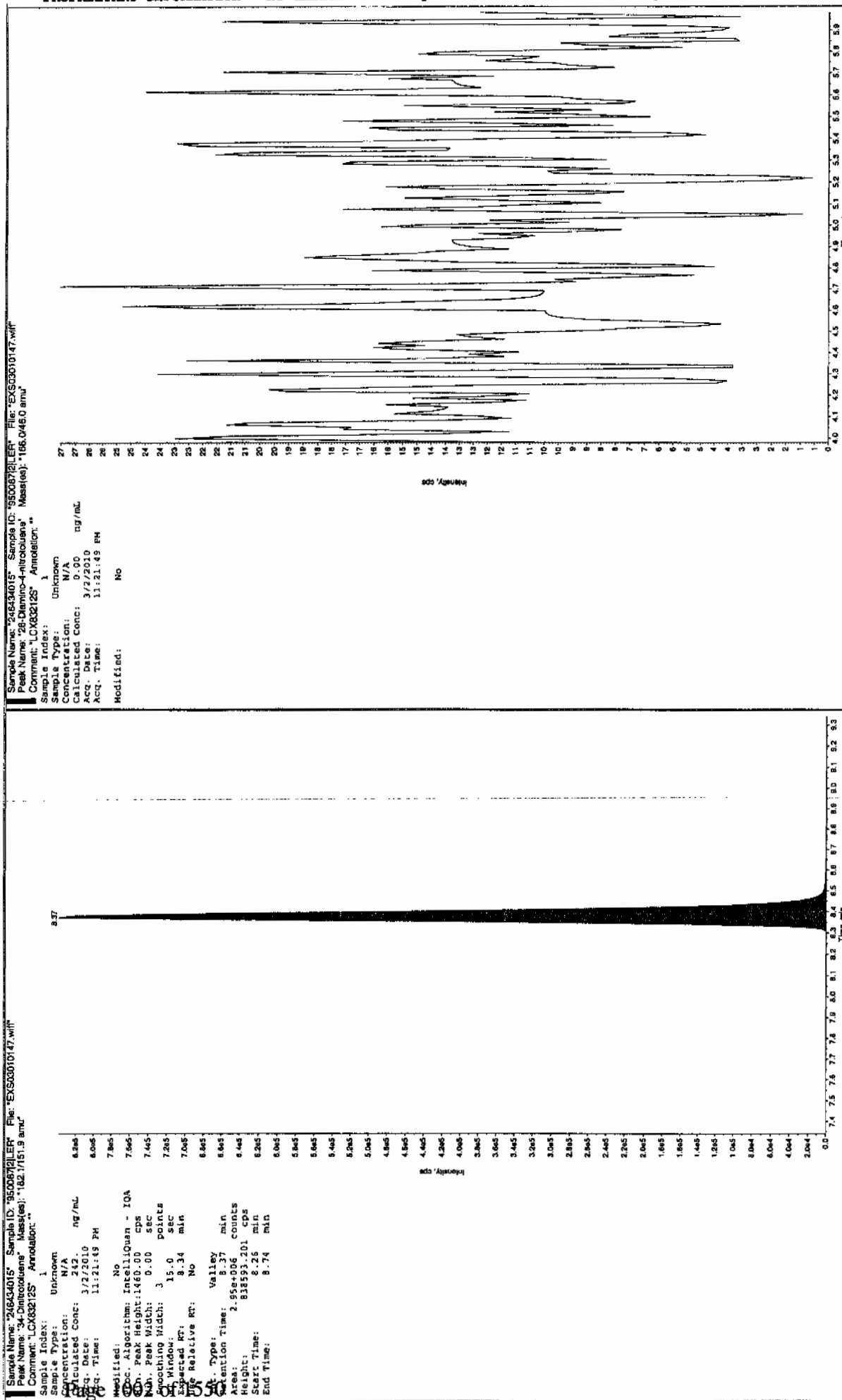
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

01/12/2008

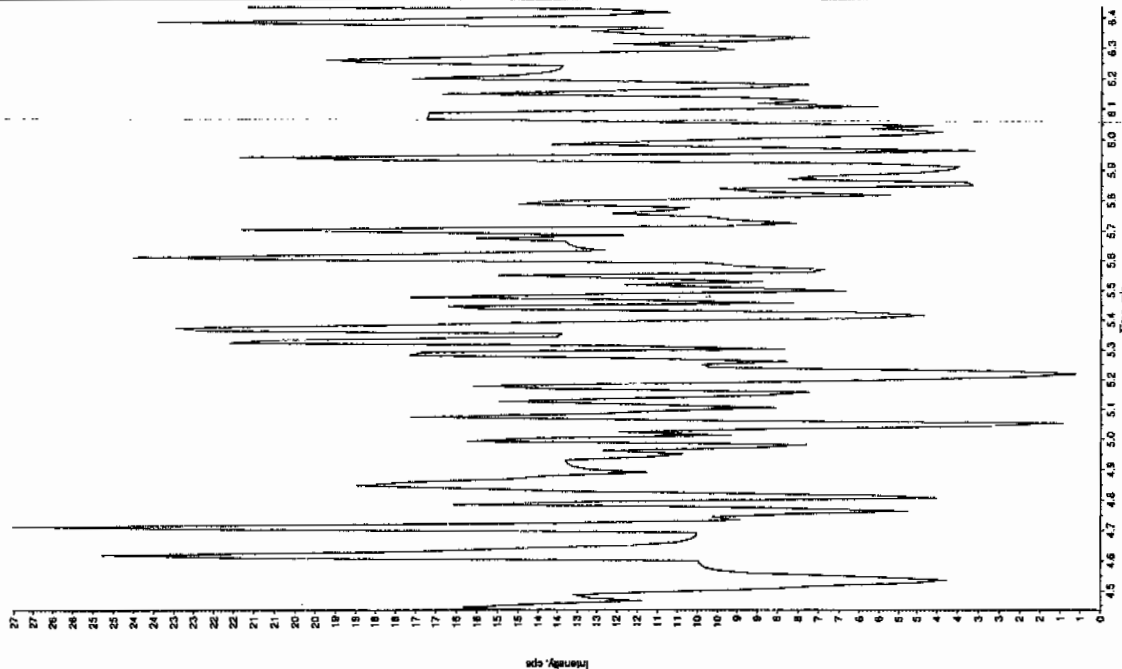




*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

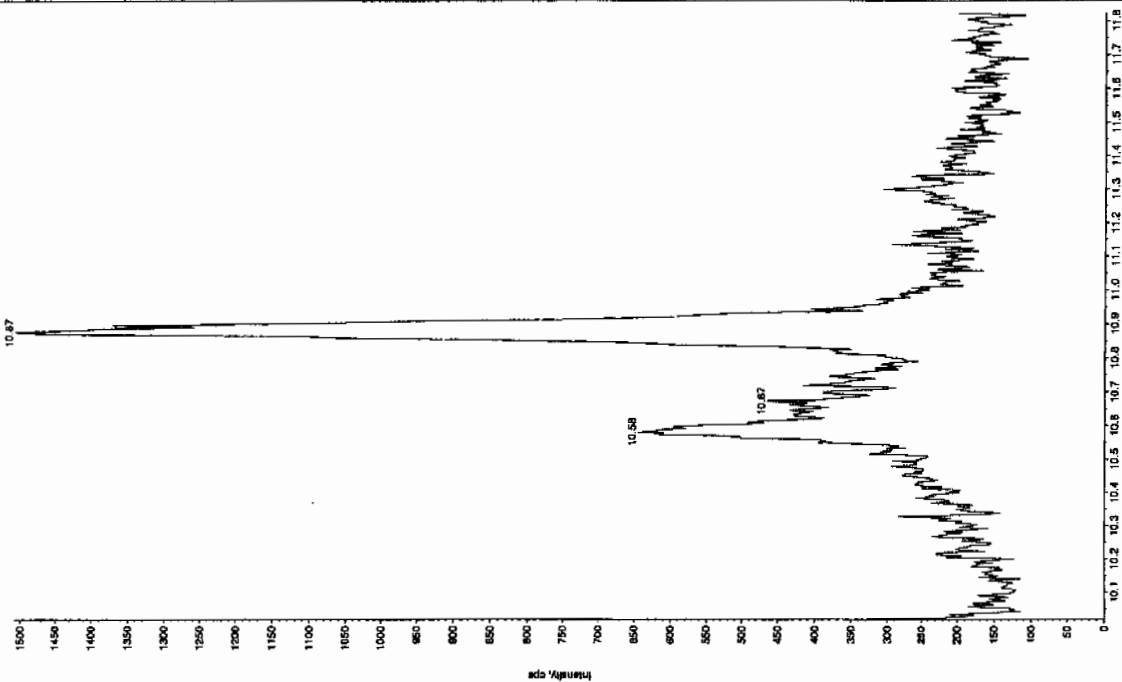
Sample Name: "246434015" Sample ID: "95008721ER" File: "EX903010147.wif"
 Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCX93212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 11:21:49 PM
 Modified: No



Sample Name: "246434015" Sample ID: "95008721ER" File: "EX903010147.wif"
 Peak Name: "10-(O-cresyl) phosphatidyl" Mass(es): "369.191.0 amu"
 Comment: "LCX93212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 11:21:49 PM
 Modified: No



STANDARDS DATA

SW846 8321A Modified-Explosives
Calibration Standard Concentration Levels

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	CCV
3,4-Dinitrotoluene (Surrogate)	12.5	25	100	200	400	500		300
Primary Analytes								
HMX	25	50	200	400	800	1000	na	600
RDX	25	50	200	400	800	1000	na	600
DNX	25	50	200	400	800	1000	na	600
MXN	25	50	200	400	800	1000	na	600
TNX	25	50	200	400	800	1000	na	600
1,3,5-Trinitrobenzene	25	50	200	400	800	1000	na	600
1,3-Dinitrobenzene	25	50	200	400	800	1000	na	600
Nitrobenzene	25	50	200	400	800	1000	na	600
Tetryl	25	50	200	400	800	1000	na	600
Nitroglycerin	50	100	200	400	800	1000	na	600
2,4,6-Trinitrotoluene	25	50	200	400	800	1000	na	600
2-Amino-4,6-dinitrotoluene	25	50	200	400	800	1000	na	600
4-Amino-2,6-dinitrotoluene	25	50	200	400	800	1000	na	600
2,4-Dinitrotoluene	25	50	200	400	800	1000	na	600
2,6-Dinitrotoluene	25	50	200	400	800	1000	na	600
2-Nitrotoluene	25	50	200	400	800	1000	na	600
4-Nitrotoluene	25	50	200	400	800	1000	an	600
3-Nitrotoluene	25	50	200	400	800	1000	na	600
PETN	25	50	200	400	800	1000	na	600
Picric Acid	200	400	1600	3200	6400	8000	na	4800
3,4-Dinitrotoluene (Surrogate)	25	50	125	250	375	500	1000	250
Secondary Analytes								
2,4-Diamino-6-nitrotoluene	50	100	250	500	750	1000	2000	500
2,6-Diamino-4-nitrotoluene	50	100	250	500	750	1000	2000	500
3,5-Dinitroaniline	50	100	250	500	750	1000	2000	500
TATB	50	100	250	500	750	1000	2000	500
tris(o-Cresyl)phosphate	50	100	250	500	750	1000	2000	500

All values are ug/L without the prep factor

Calibration Levels 8321A-Modified-EXPL.xls (08/09A)

Calibration Levels 8321A-Modified-EXPL.xls

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC GEL Job No: 10-1620 Run Date: 01-MAR-10 HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Lab Code: GEL Method: 8321A Modified

LCMSMS Instrument ID: LCMSMS

Calibration Type: Average RF

Paraname	1	2	3	4	5	6	Ave RF	RSD	Q
Calibration Level:	EXP0323003a	EXP0323004a	EXP0323005a	EXP0323006a	EXP0323007a	EXP0323008a			
Data File:									
1,3,5-Trinitrobenzene	5.032	4.994	4.537	4.6	4.618	4.575	4.726	4.748	
1,3-Dinitrobenzene-d4	11.754	12.906	11.01	10.6	10.117	9.664	11.009	10.69	
2,4,6-Trinitrotoluene	.424	.368	.38	.453	.443	.394	0.410	8.493	
2,4-Dinitrotoluene	.262	.293	.273	.265	.282	.289	0.277	4.587	
2,6-Dinitrotoluene	1.112	1.205	1.106	1.163	1.182	1.174	1.157	3.448	
2,6-Dinitrotoluene-d3	82.805	73.801	67.998	67.968	62.879	57.717	68.861	12.666	
2-Amino-4,6-dinitrotoluene	.508	.507	.537	.569	.587	.577	0.548	6.473	
3,4-Dinitrotoluene	.915	.995	1.13	1.083	1.133	1.097	1.059	8.15	
4-Amino-2,6-dinitrotoluene	.347	.327	.35	.36	.369	.368	0.354	4.504	
HMX	5.311	4.69	5.261	6.242	6.079	5.497	5.513	10.373	
Nitrobenzene	.686	.654	.672	.653	.651	.615	0.655	3.64	
RDX	3.229	2.859	3.253	3.567	3.545	3.415	3.311	7.936	
Tetryl	1.129	1.002	1.143	1.22	1.115	1.273	1.147	8.152	
m-Dinitrobenzene	1.371	1.208	1.328	1.336	1.345	1.381	1.328	4.687	
o-Nitrotoluene	.051	.048	.054	.052	.048	.049	0.050	4.981	
p-Nitrotoluene	.076	.089	.078	.08	.079	.082	0.081	5.666	
	.03	.046	.039	.039	.039	.04	0.039	13.369	

Q column used to flag RSD values outside of Limit (>20%)
 * Values outside of QC Limit

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1620

Lab Code: GEL

Run Date: 01-MAR-10 23-MAR-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Linear

	1	2	3	4	5	6	Slope	Intercept	COD	Q
Calibration Level:										
Data File:	EXP0323003a	EXP0323004a	EXP0323005a	EXP0323006a	EXP0323007a	EXP0323008a				
Parname										
PETN	2318.77	4444.01	14597.9	26021	45749.6	53868.3	.909	16.24	.9989	

Linear fit : $Y = mx + b$
where b is Intercept and m is slope

COD is Coefficient of Determination

Q column used to flag COD values outside of Limit (<0.990)

* Values outside of QC Limit

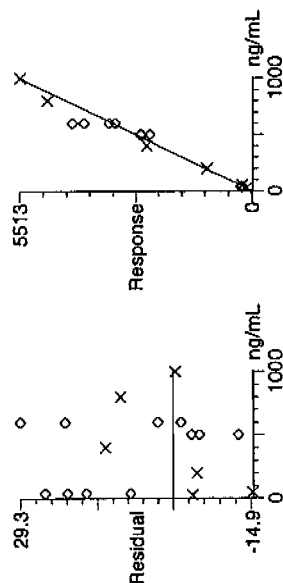
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

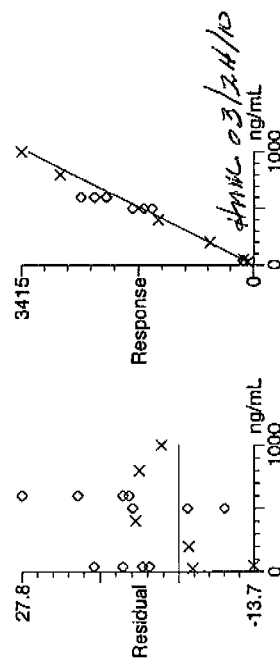
Method: C:\MASSLYNX\New_Exp.PRO\MethDB\032310expa.mdb, Time: Tue Mar 23 14:06:48 2010
Calibration: Untitled, Time: Wed Mar 24 09:29:41 2010

Page 1008 of 1550

Compound name: HMX
Response Factor: 5.51311
RRF SD: 0.571885, % Relative SD: 10.3732
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



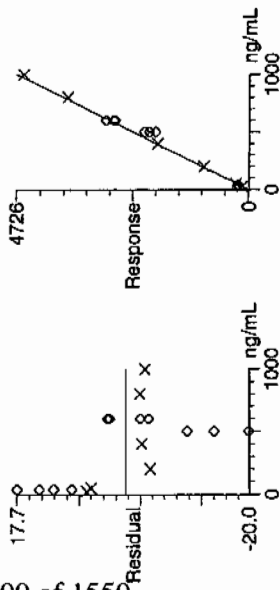
Compound name: RDX
Response Factor: 3.31129
RRF SD: 0.26278, % Relative SD: 7.93586
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



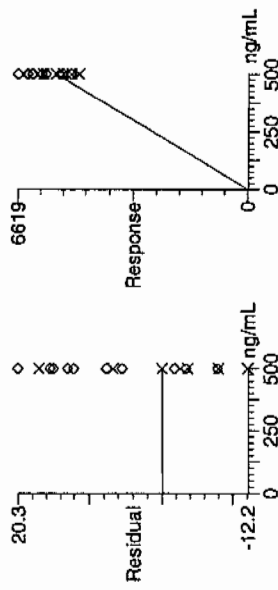
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Compound name: 135-Trinitrobenzene
Response Factor: 4.7262
RRF SD: 0.224421, % Relative SD: 4.74845
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: 13-Dinitrobenzene-d4
Response Factor: 11.0085
RRF SD: 1.17683, % Relative SD: 10.6902
Response type: External Std, Area
Curve type: RF



Quantify Calibration Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

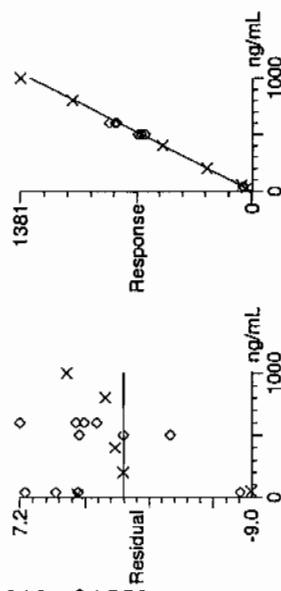
Compound name: 13-Dinitrobenzene

Response Factor: 1.32795

RRF SD: 0.0622466, % Relative SD: 4.68744

Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)

Curve type: RF



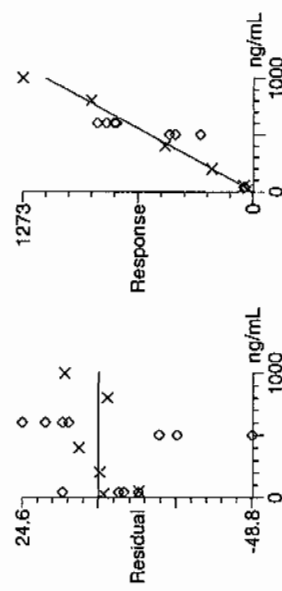
Compound name: Tetra

Response Factor: 1.14683

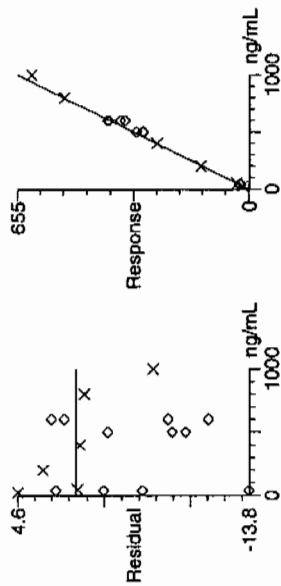
RRF SD: 0.0934919, % Relative SD: 8.15221

Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)

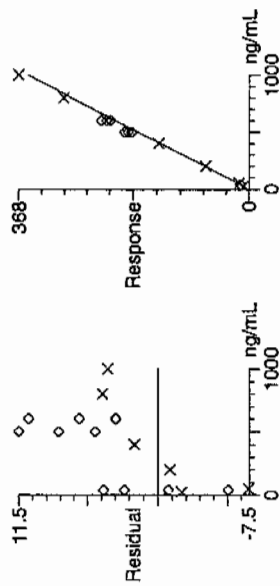
Curve type: RF



Compound name: Nitrobenzene
 Response Factor: 0.655153
 RRF SD: 0.0238446, % Relative SD: 3.63954
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



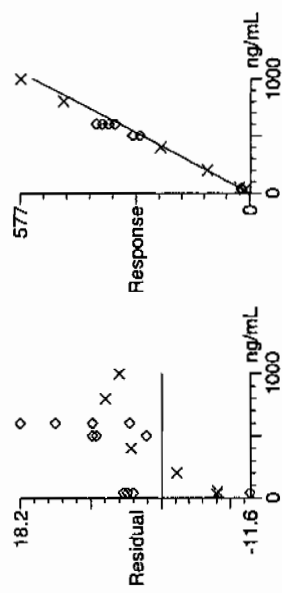
Compound name: 4-Amino-26-dinitrotoluene
 Response Factor: 0.353375
 RRF SD: 0.0159163, % Relative SD: 4.50407
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



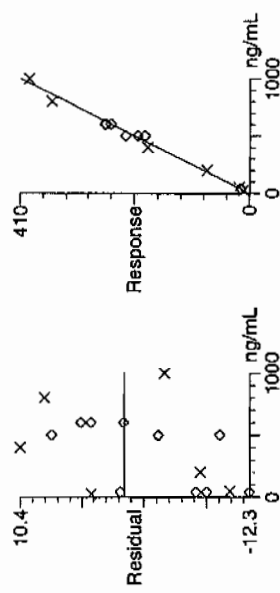
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

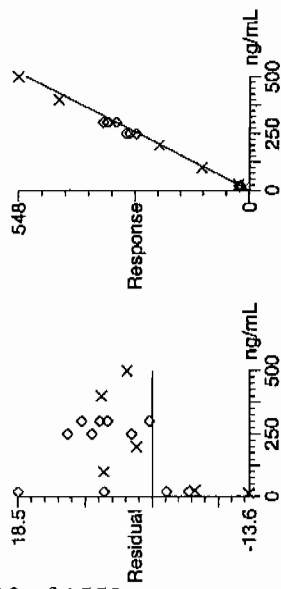
Compound name: 2-Amino-46-dinitrotoluene
 Response Factor: 0.547585
 RRF SD: 0.0354456, % Relative SD: 6.47307
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: Rf



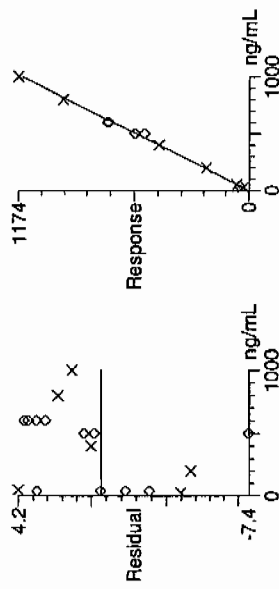
Compound name: 246-Trinitrotoluene
 Response Factor: 0.410071
 RRF SD: 0.0348258, % Relative SD: 8.49263
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: Rf



Compound name: 34-dinitrotoluene
Response Factor: 1.05888
RRF SD: 0.0862978, % Relative SD: 8.14988
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RIF



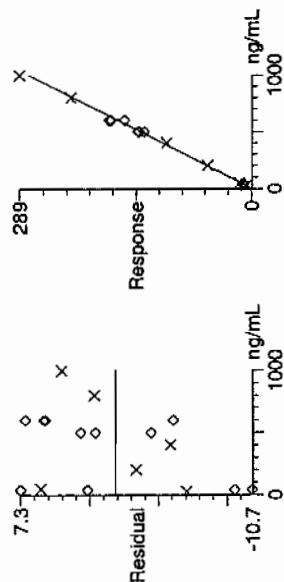
Compound name: 26-dinitrotoluene
Response Factor: 1.15701
RRF SD: 0.0398889, % Relative SD: 3.44758
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RIF



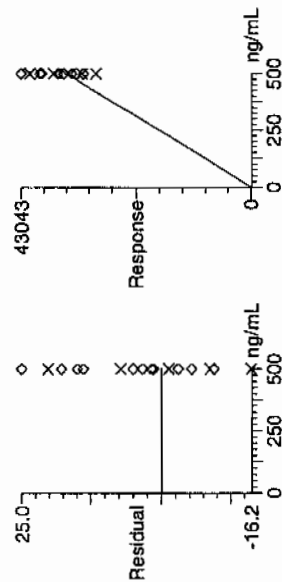
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Compound name: 24-dinitrotoluene
 Response Factor: 0.277495
 RRF SD: 0.0127293, % Relative SD: 4.58723
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



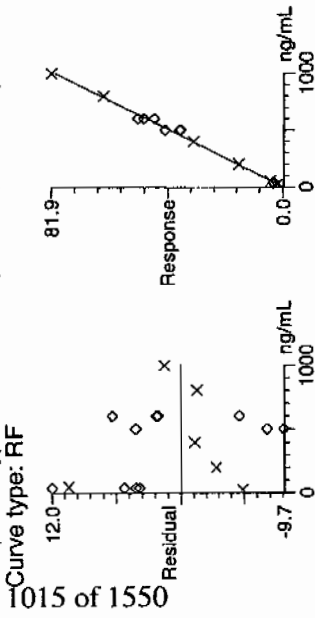
Compound name: 26-dinitrotoluene-d3
 Response Factor: 68.8611
 RRF SD: 8.72211, % Relative SD: 12.6662
 Response type: External Std, Area
 Curve type: RF



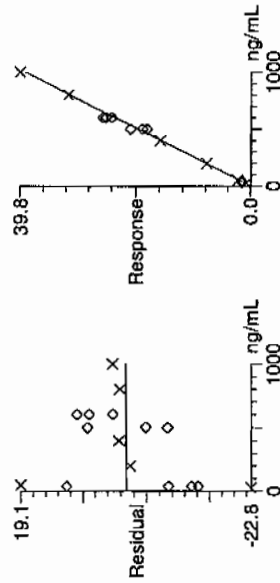
Quantify Calibration Report GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Compound name: 2-Nitrotoluene
Response Factor: 0.0806432
RRF SD: 0.00456922, % Relative SD: 5.66596
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



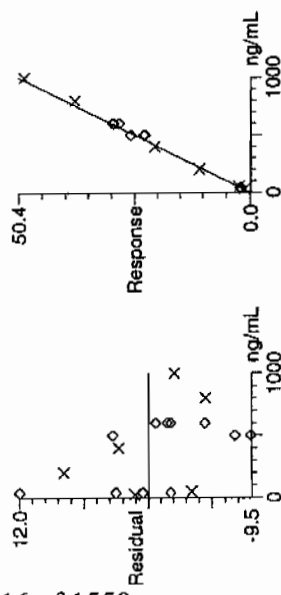
Compound name: 4-Nitrotoluene
Response Factor: 0.0389409
RRF SD: 0.00520599, % Relative SD: 13.369
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



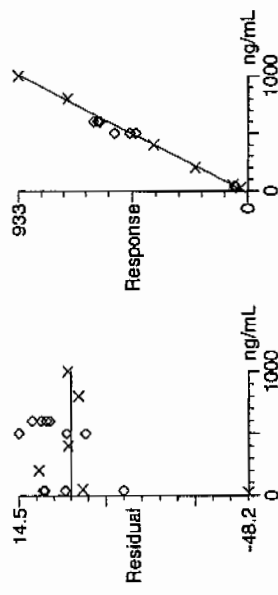
Quantify Calibration Report GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Compound name: 3-Nitrotoluene
Response Factor: 0.0504212
ag RRF SD: 0.00251151, % Relative SD: 4.98107
e Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: PETN
Correlation coefficient: $r = 0.999467$, $r^2 = 0.998933$
Calibration curve: $0.908775 * x + 16.2395$
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: Null, Axis trans: None



7

Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0323010a

Analysis Date: 23-MAR-10 13:34

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
PETN	600	650.548	108	
RDX	600	659.349	110	
Tetryl	600	669.49	112	
m-Dinitrobenzene	600	616.682	103	
m-Nitrotoluene	600	589.179	98	
o-Nitrotoluene	600	638.057	106	
p-Nitrotoluene	600	638.597	106	
1,3,5-Trinitrobenzene	600	585.721	98	
1,3-Dinitrobenzene-d4	500	460.269	92	
2,4,6-Trinitrotoluene	600	600.545	100	
2,4-Dinitrotoluene	600	572.778	95	
2,6-Dinitrotoluene	600	623.33	104	
2,6-Dinitrotoluene-d3	500	452.986	91	
2-Amino-4,6-dinitrotoluene	600	624.798	104	
3,4-Dinitrotoluene	300	301.181	100	
4-Amino-2,6-dinitrotoluene	600	620.044	103	
HMX	600	591.583	99	
Nitrobenzene	600	611.463	102	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qtd, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323010a

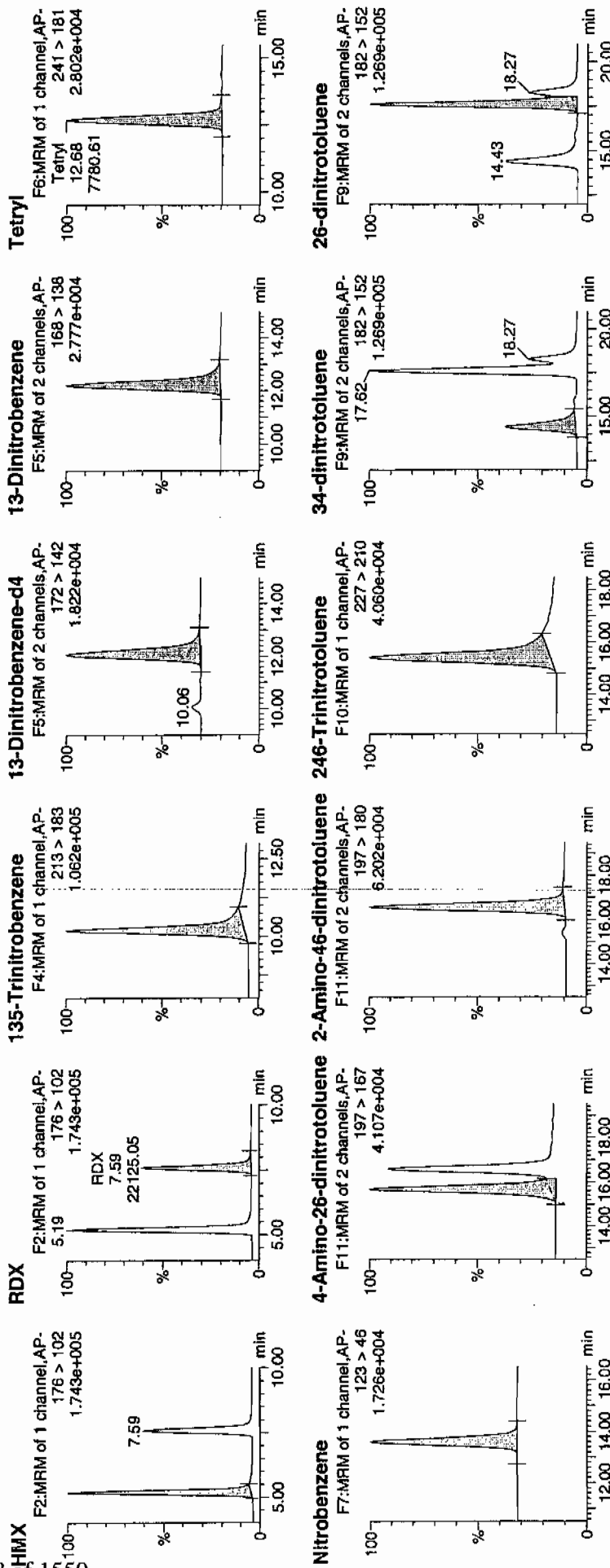
Date: 23-Mar-2010

Time: 13:34:21

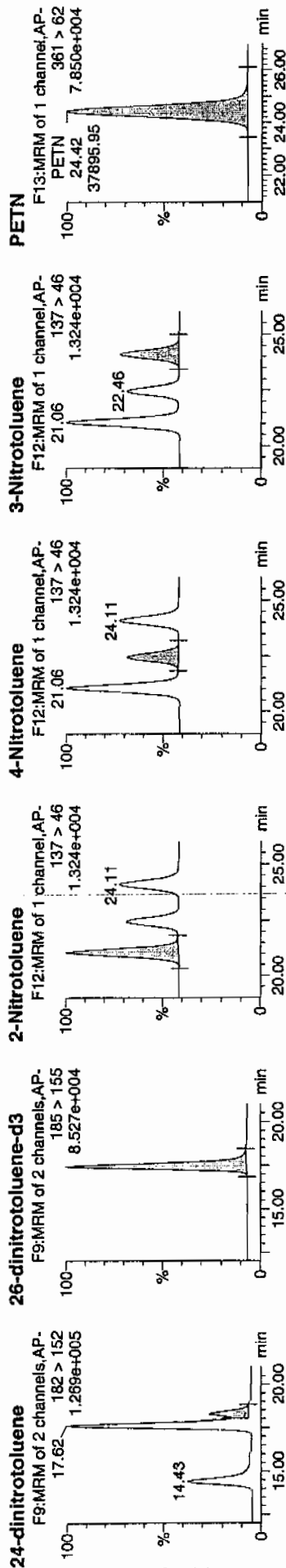
ID: WXX100323-071CV

Vial: 1:1,B

11/11
3/24/10



Handwritten note: 11/11 3/24/10



ID	Name	Trace	RT	Area	IS:Area	Abst:Resp	Response	Flags	Mod:Date	Mod:Time	Conc:mg/ml	%Rec	%Dev	SN
WXX100323-07ICV	HMZ	176 > 102	5.19	33050.891	5066.889	33050.891	3261.458	bb			591.5827	98.6	-1.4	3114.5
WXX100323-07ICV	RDX	176 > 102	7.59	22125.049	5066.889	22125.049	2183.297	bb			659.3486	109.9	9.9	1844.8
WXX100323-07ICV	135-Trinitrobenzene	213 > 183	10.20	28052.678	5066.889	28052.678	2768.235	bb			585.7207	97.6	-2.4	680.8
WXX100323-07ICV	13-Dinitrobenzene-d4	172 > 142	12.07	5066.889			5066.889	bb			460.2688	92.1	-7.9	654.9
WXX100323-07ICV	13-Dinitrobenzene	168 > 138	12.20	8298.761	5066.889	8298.761	818.921	bb			616.6825	102.8	2.8	626.3
WXX100323-07ICV	Tetryl	241 > 181	12.68	7780.609	5066.889	7780.609	767.790	bb			669.4895	111.6	11.6	568.8
WXX100323-07ICV	Nitrobenzene	123 > 46	13.63	4059.608	5066.889	4059.608	400.602	bb			611.4632	101.9	1.9	364.9
WXX100323-07ICV	4-Amino-26-dinitrotoluene	197 > 167	15.71	13669.333	31193.129	13669.333	219.108	MM	24-Mar-10	09:20:52	620.0440	103.3	3.3	363.1
WXX100323-07ICV	2-Amino-46-dinitrotoluene	197 > 180	16.58	21344.205	31193.129	21344.205	342.130	bb			624.7977	104.1	4.1	830.0
WXX100323-07ICV	246-Trinitrotoluene	227 > 210	15.41	15363.621	31193.129	15363.621	246.266	bb			600.5453	100.1	0.1	915.0
WXX100323-07ICV	34-dinitrotoluene	182 > 152	14.43	19895.975	31193.129	19895.975	318.916	bb			301.1814	100.4	0.4	986.3
WXX100323-07ICV	26-dinitrotoluene	182 > 152	17.62	44992.969	31193.129	44992.969	721.200	MM	24-Mar-10	09:24:13	623.3301	103.9	3.9	2899.5
WXX100323-07ICV	24-dinitrotoluene	182 > 152	18.27	9915.864	31193.129	9915.864	158.943	MM	24-Mar-10	09:27:39	572.7777	95.5	-4.5	617.5
WXX100323-07ICV	26-dinitrotoluene-d3	185 > 155	17.44	31193.129			31193.129	bb			452.9859	90.6	-9.4	2738.7
WXX100323-07ICV	2-Nitrotoluene	137 > 46	21.06	3210.082	31193.129	3210.082	51.455	bb			638.0566	106.3	6.3	1369.5
WXX100323-07ICV	4-Nitrotoluene	137 > 46	22.46	1551.393	31193.129	1551.393	24.868	bb			638.5974	106.4	6.4	626.4
WXX100323-07ICV	3-Nitrotoluene	137 > 46	24.11	1853.314	31193.129	1853.314	29.707	bb			589.1787	98.2	-1.8	714.8
WXX100323-07ICV	PETN	361 > 62	24.42	37895.953	31193.129	37895.953	607.441	bb			650.5475	108.4	8.4	14931.2

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/23/10
 Time of Injection: 1334
 Standard Number: WXX100323-07ICV
 Data File: EXP0323010a

HMX	98.6
RDX	109.9
135-TNB	97.6
13-DNB	102.8
Tetryl	111.6
Nitrobenzene	101.9
4A-26-DNT	103.3
2A-46-DNT	104.1
246-TNT	100.1
34-DNT(surr)	100.4
26-DNT	103.9
24-DNT	95.5
2-NT	106.3
4-NT	106.4
3-NT	98.2
PETN	108.4

Handwritten: 100
3/24/10

Total 1649.0

Average 103.1

Handwritten: HMM 03/24/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC GEL Job No: 10-1620 Run Date: 01-MAR-10 23-MAR-10

Lab Code: GEL Method: 8321A Modified HPLC Column: YMC J-Sphere ODS-H8Q

LCMSMS Instrument ID: LCMSMS4

Calibration Type: 2nd Order

Calibration Level:	19	20	21	22	23	24	25	X	X^2	Intercept	COD	Q
Data File:	EXS03010003.wiff	EXS03010004.wiff	EXS03010005.wiff	EXS03010006.wiff	EXS03010007.wiff	EXS03010008.wiff	EXS03010009.wiff					
Parname:												
2,4-Diamino-6-nitrotoluene	63600	134000	332000	632000	1000000	1320000	2520000	-9230	1370	-.055	.9999	
2,6-Diamino-4-nitrotoluene	91200	188000	474000	956000	1400000	1830000	3670000	6230	1860	-.014	.9999	
3,4-Dinitrotoluene	296000	604000	1440000	2810000	4210000	5760000	10400000	-77900	13100	-2.67	.999	
3,5-Dinitroaniline	436000	871000	2060000	3980000	5810000	7200000	13000000	75700	8100	-.824	.9998	
TATB	50800	111000	287000	578000	908000	1260000	2600000	-14200	1190	.058	.9999	
tris(o-cresyl) phosphate	864000	1800000	4120000	7770000	11400000	14300000	24200000	110000	16500	-2.25	1	

Quadratic Fit: $y = Ax^2 + Bx + C$
 where X^2 column above is coefficient A
 X column above is coefficient B
 intercept is C

COD is Coefficient of Determination
 Q column used to flag COD outside of Limit (<0.990)
 * Values outside of QC Limit

030110ICAL

Peak Name: TATB
No Internal Standard
Q1/Q3 Masses: 257.20/204.90 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	-1.42e+004			
a1	1.19e+003			
a2	0.0579			
Correlation coefficient 0.9999				
Use Area				

Peak Name: 35-Dinitroaniline
No Internal Standard
Q1/Q3 Masses: 182.00/46.00 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	7.57e+004			
a1	8.1e+003			
a2	-0.824			
Correlation coefficient 0.9998				
Use Area				

Peak Name: 34-Dinitrotoluene
No Internal Standard
Q1/Q3 Masses: 182.08/151.90 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	-7.79e+004			
a1	1.31e+004			
a2	-2.67			
Correlation coefficient 0.9990				
Use Area				

Peak Name: 26-Diamino-4-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	6.23e+003			
a1	1.86e+003			
a2	-0.0141			
Correlation coefficient 0.9999				
Use Area				

Peak Name: 24-Diamino-6-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

03/04/10
02/04/10

Page 1

Ken
3/13/10

030110ICAL

Iterate No

None

Fit Quadratic
a0 -9.23e+003
a1 1.37e+003
a2 -0.0545
Correlation coefficient 0.9999
Use Area

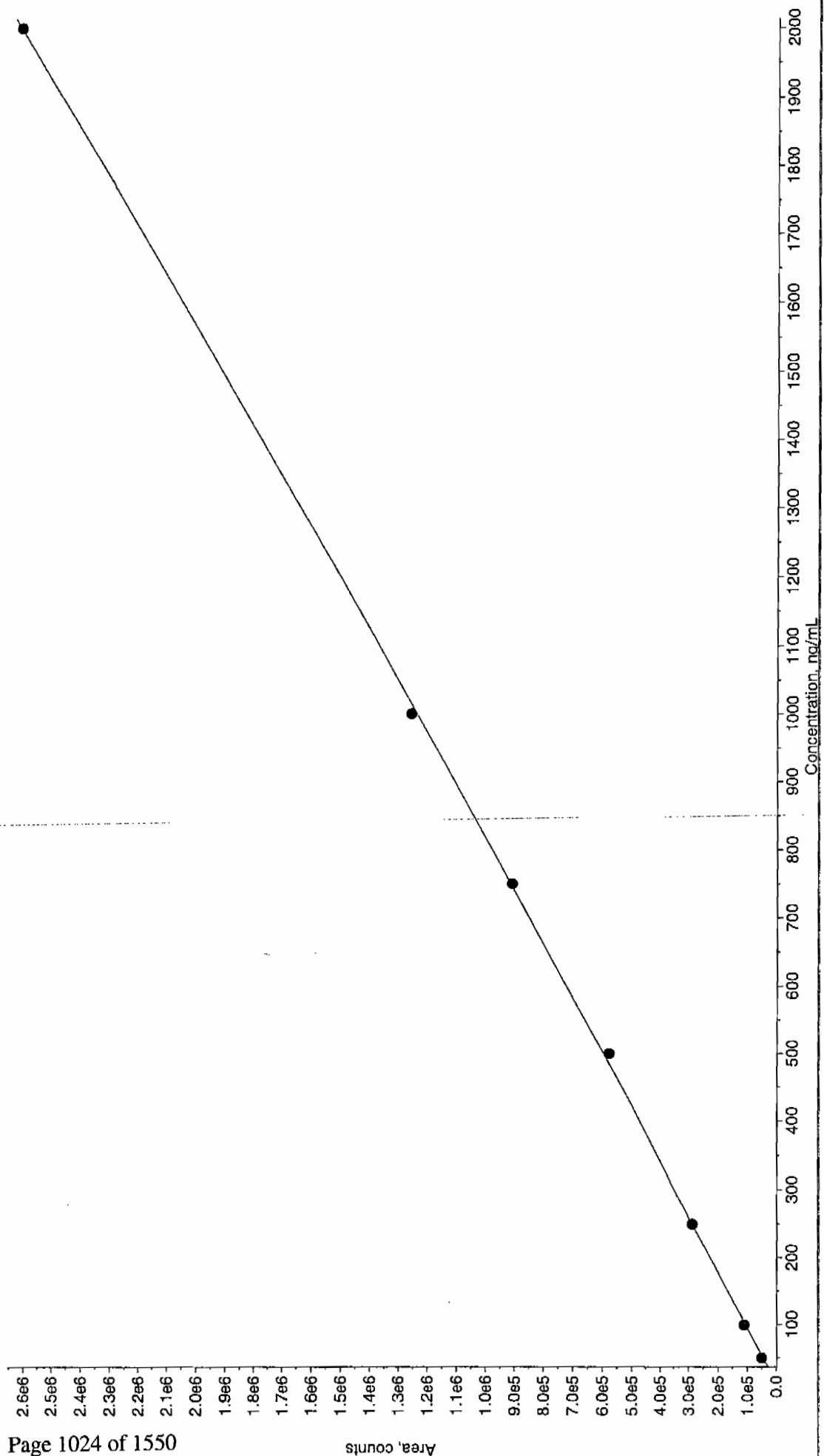
Peak Name: tris(o-cresyl) phosphate
No Internal Standard
Q1/Q3 Masses: 369.15/91.00 amu

Iterate No

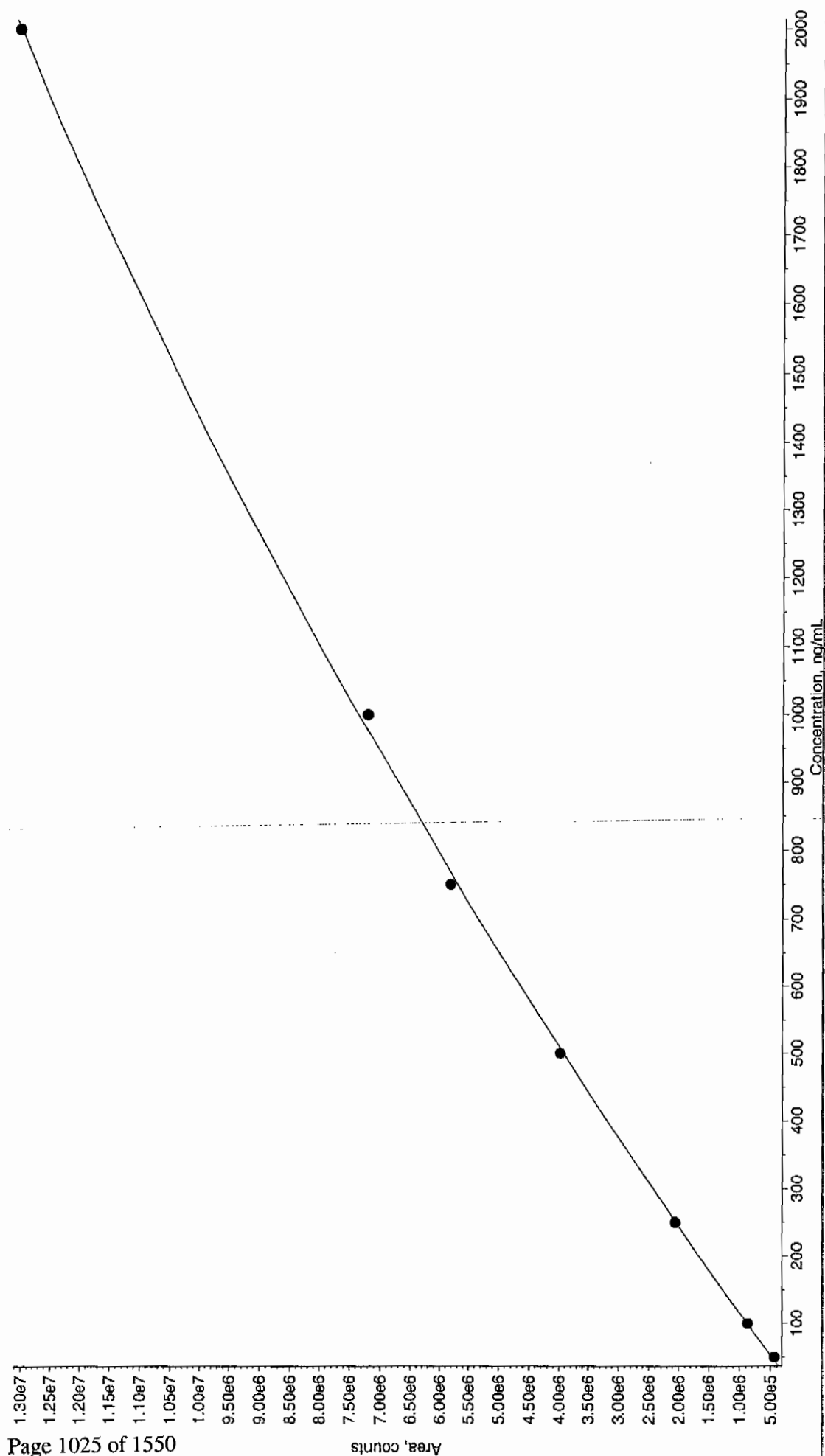
None

Fit Quadratic
a0 1.1e+005
a1 1.65e+004
a2 -2.25
Correlation coefficient 1.0000
Use Area

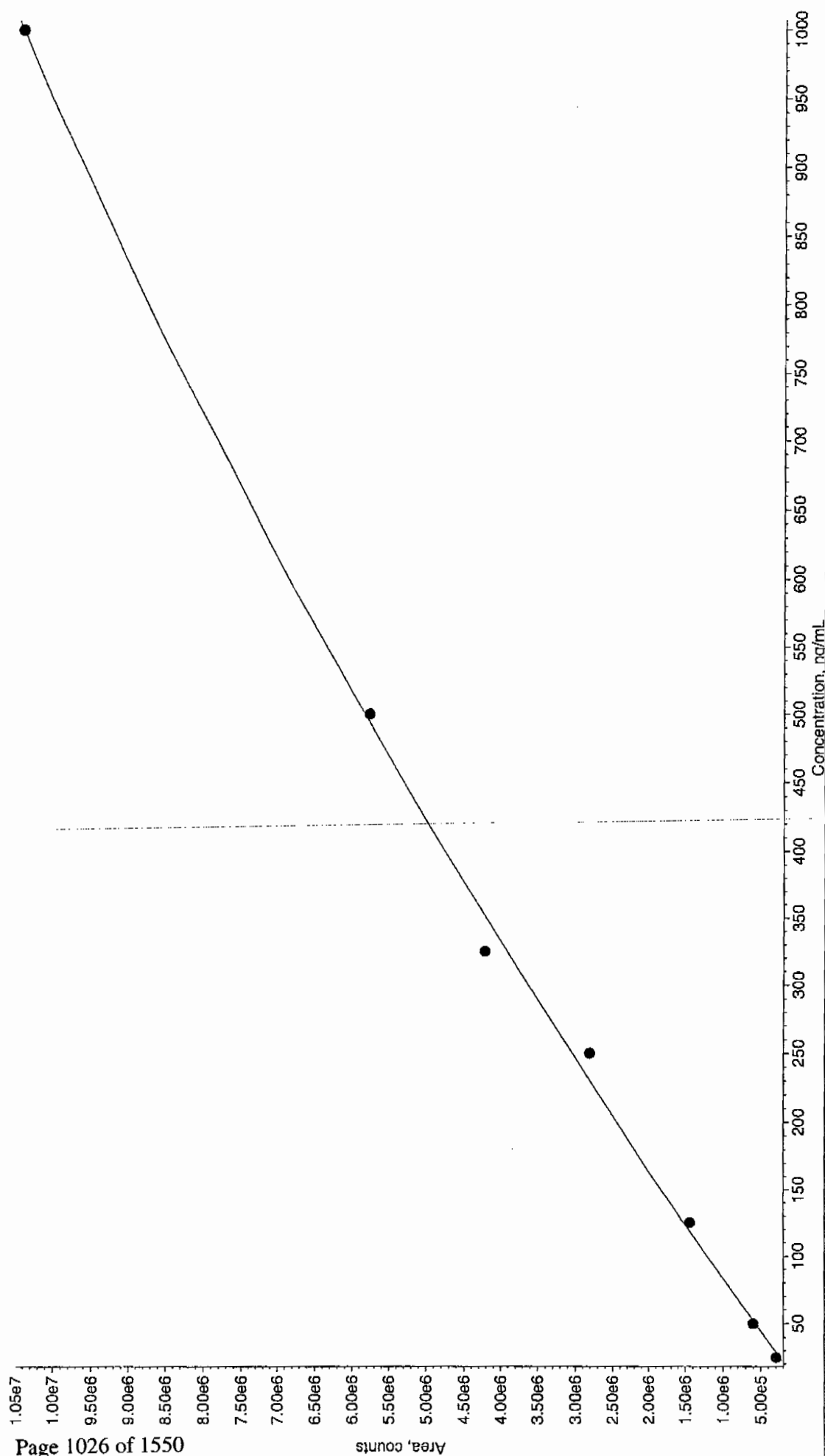
030110.rdb (TATB): "Quadratic" Regression ("No" weighting): $y = 0.0579 x^2 + 1.19e+003 x + -1.42e+004$ ($r = 0.9999$)



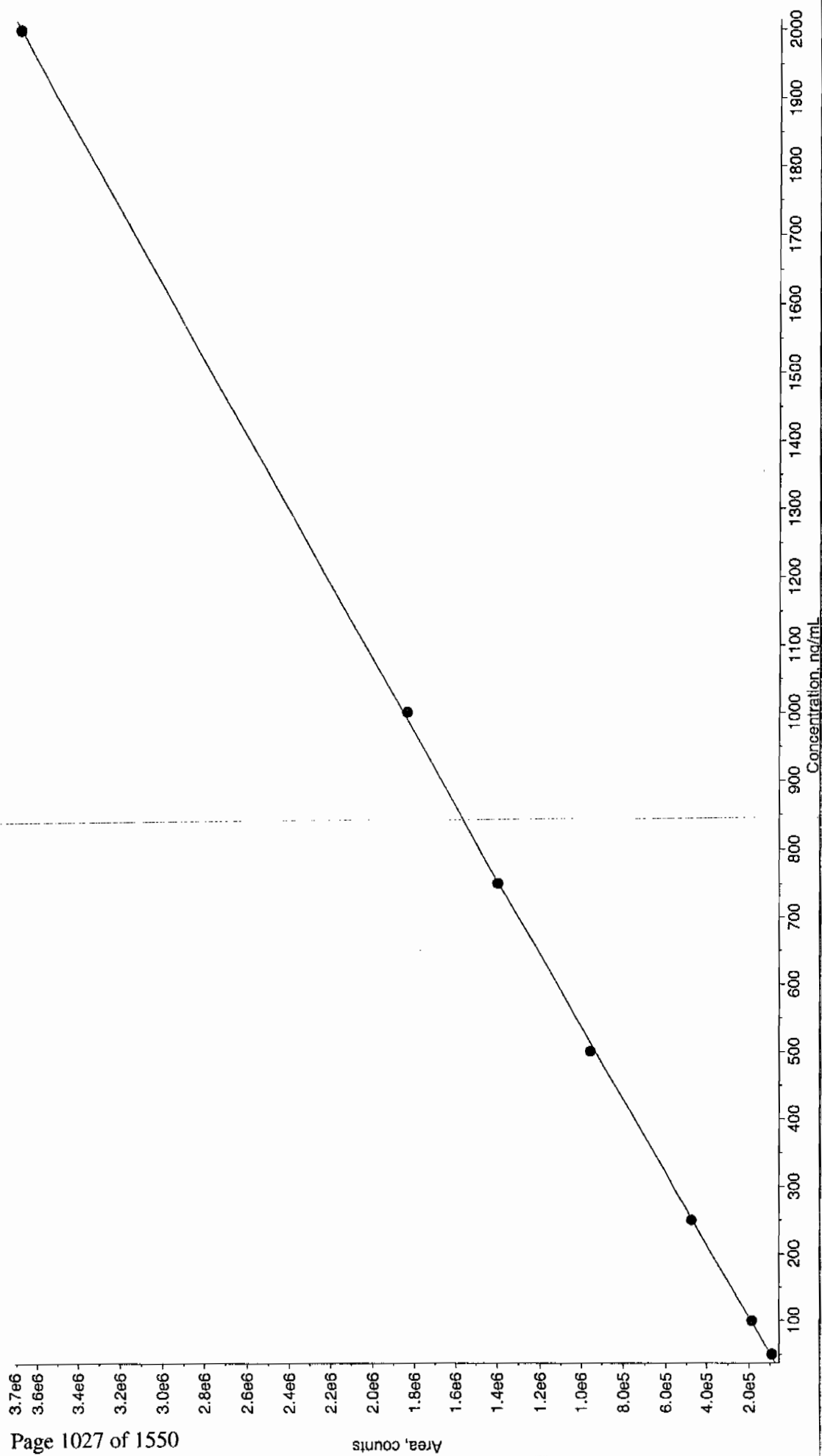
030110.rdb (35-Dinitroaniline): "Quadratic" Regression ("No" weighting): $y = -0.824 x^2 + 8.1e+003 x + 7.57e+004$ ($r = 0.9998$)



030110.rdb (34-Dinitrotoluene): "Quadratic" Regression ("No" weighting): $y = -2.67 x^2 + 1.31e+004 x + -7.79e+004$ ($r = 0.9990$)

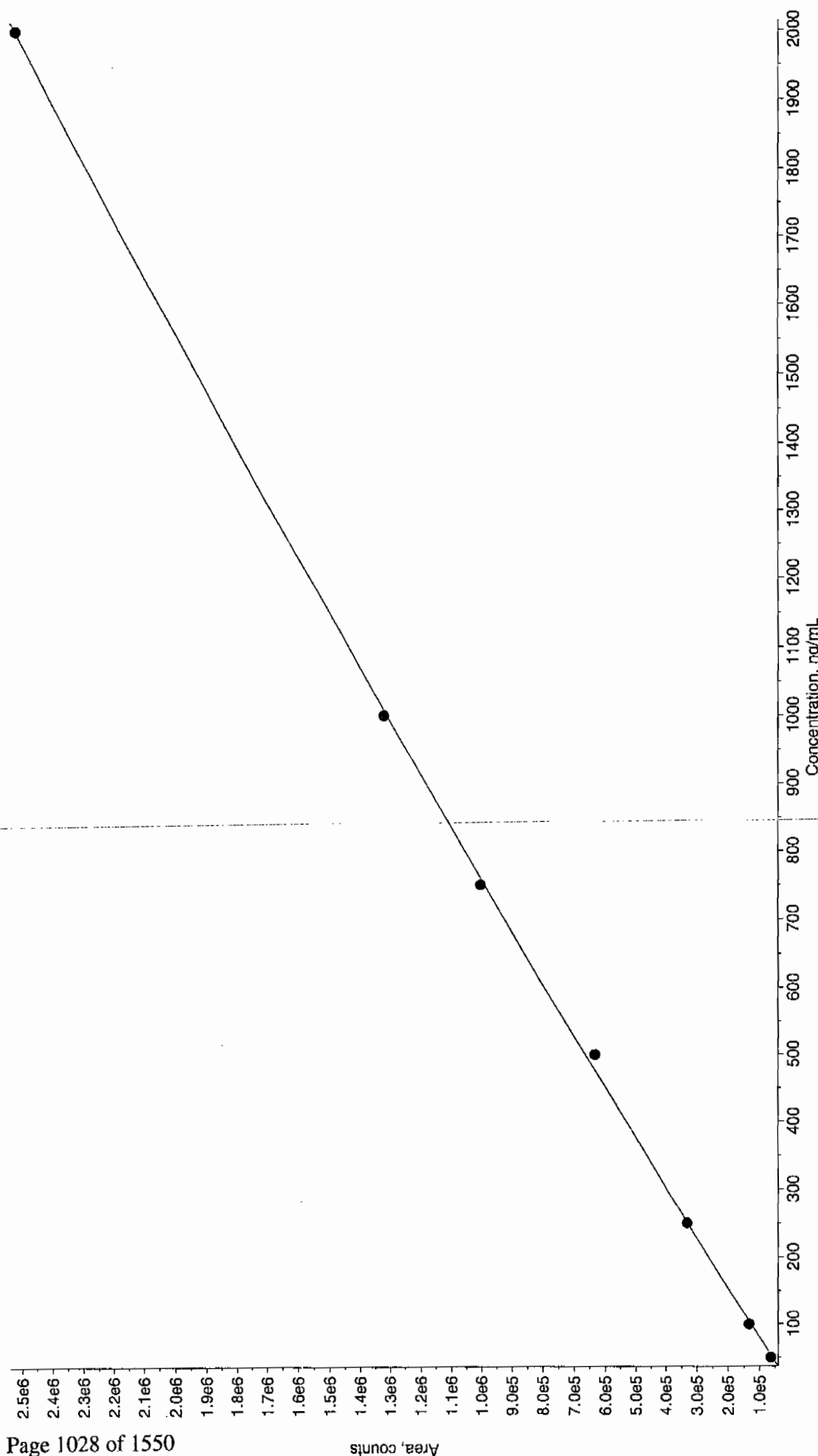


030110.rdb (26-Diamino-4-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = -0.0141 x^2 + 1.86e+003 x + 6.23e+003$ ($r = 0.9999$)

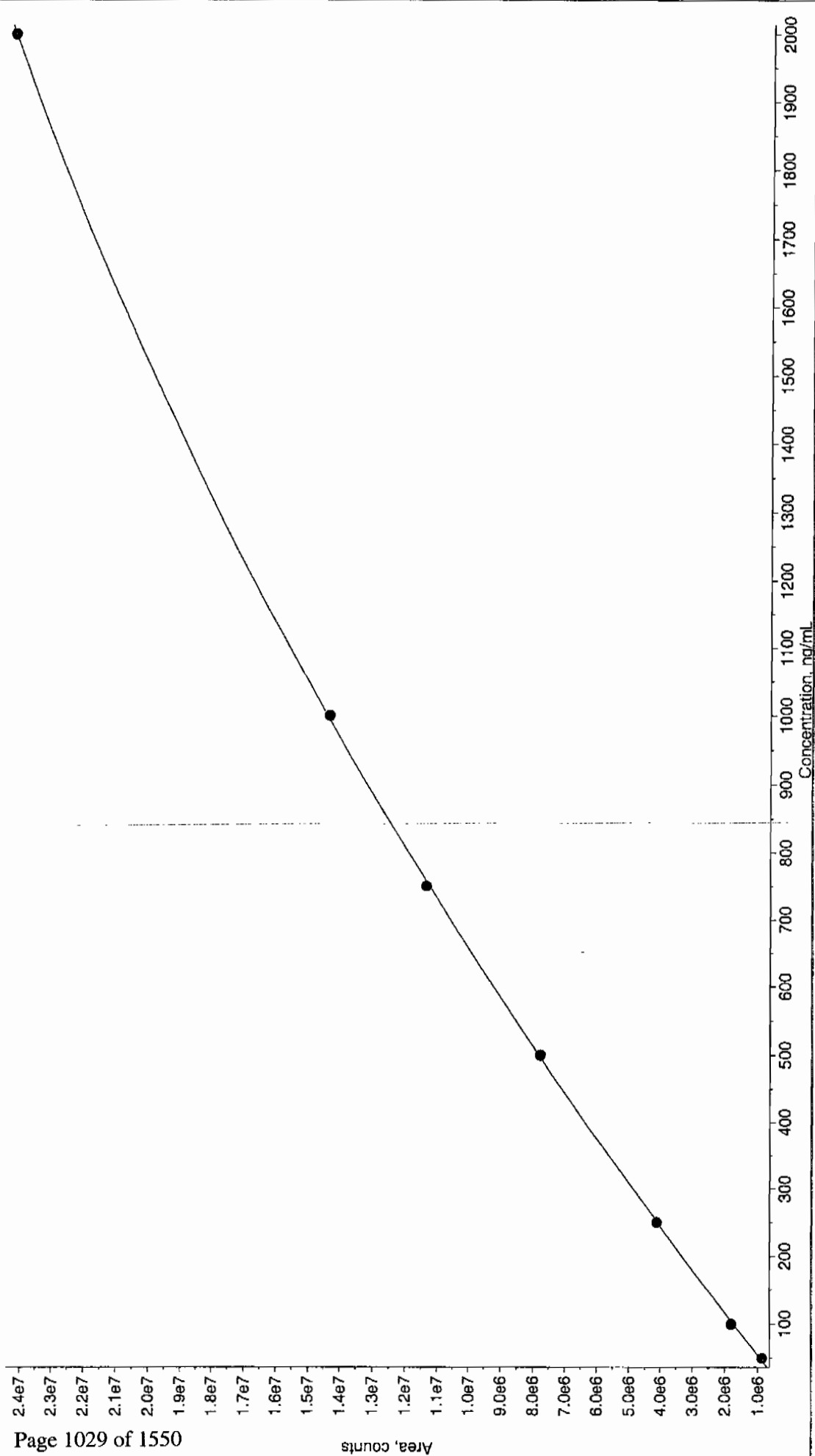


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

030110.rdb (24-Diamino-6-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = -0.0545 x^2 + 1.37e+003 x + -9.23e+003$ ($r = 0.9999$)



030110.rdb (tris(o-cresyl) phosphate): "Quadratic" Regression ("No" weighting): $y = -2.25 x^2 + 1.65e+004 x + 1.1e+005$ ($r = 1.0000$)



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXS03010011.wiff

Analysis Date: 01-MAR-10 11:40

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	503	101	
2,6-Diamino-4-nitrotoluene	500	483	97	
3,4-Dinitrotoluene	250	232	93	
3,5-Dinitroaniline	500	506	101	
TATB	500	495	99	
tris(o-cresyl) phosphate	500	480	96	

Recovery Limits:

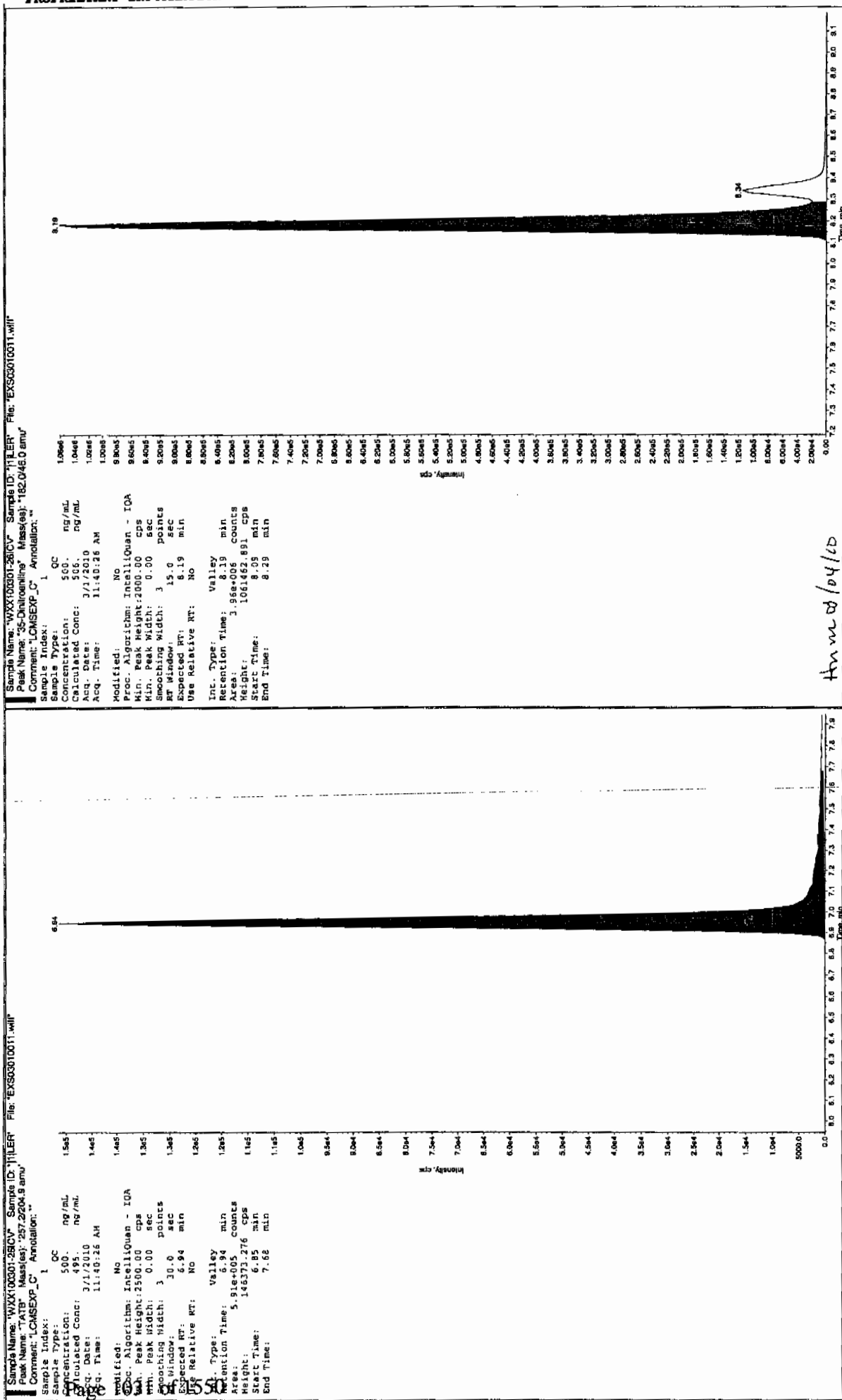
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

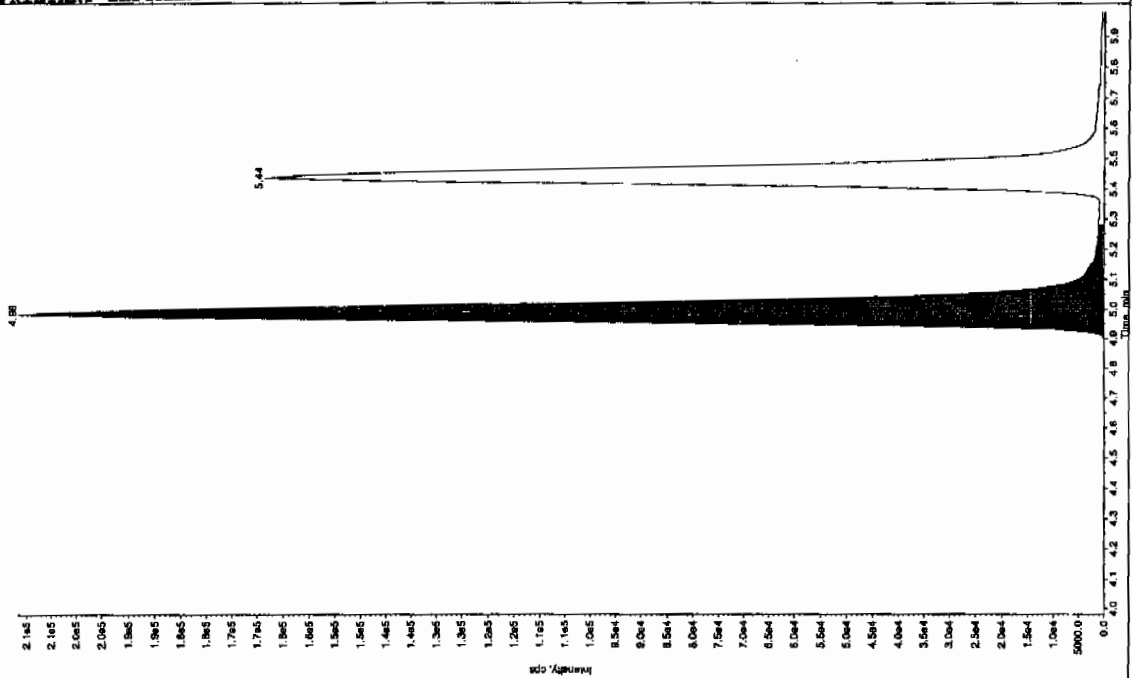
for 3/3/10



Sample Name: "WXX100301.250V" Sample ID: "11LEP" File: "EX503010011.wif"
 Peak Name: "25-Nitro-4-nitrofluorene" Mass(es): "182.1713.9 amu"
 Command: "LCMSXP_C" Annotation: ""

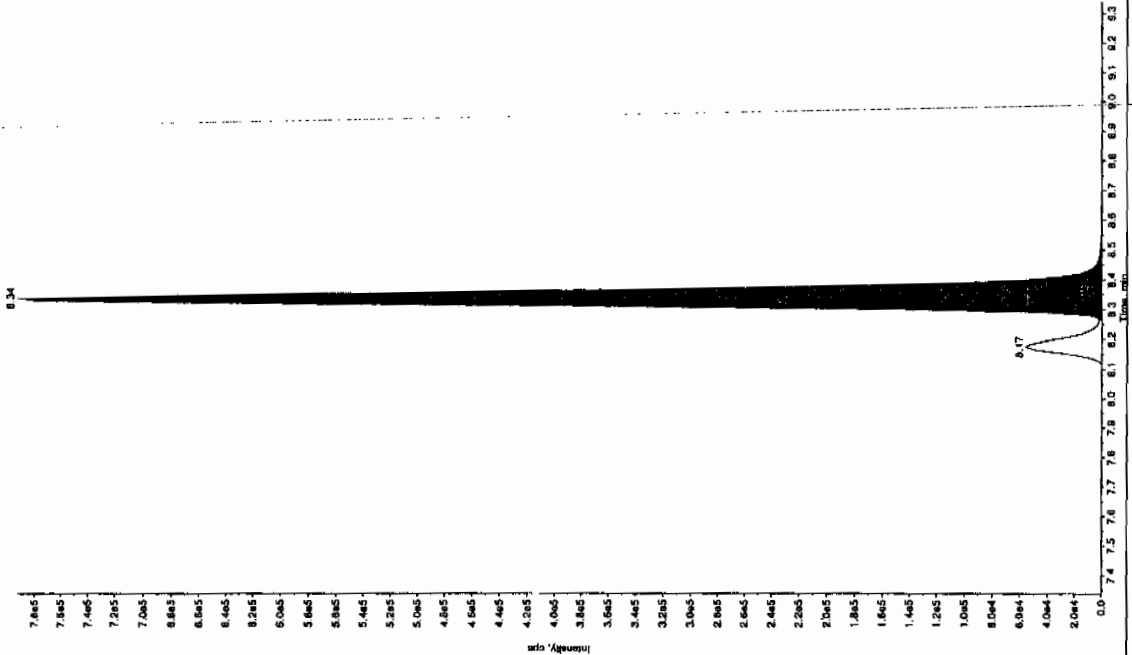
Sample Index: 1 QC
 Sample Type: 1
 Concentration: 500 ng/mL
 Calculated Conc: 483 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 11:40:26 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.98 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.98 min
 Area: 9.01e+005 counts
 Height: 211703.171 cps
 Start Time: 4.89 min
 End Time: 5.28 min

Sample Index: 1 QC
 Sample Type: 1
 Concentration: 500 ng/mL
 Calculated Conc: 483 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 11:40:26 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.98 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.98 min
 Area: 9.01e+005 counts
 Height: 211703.171 cps
 Start Time: 4.89 min
 End Time: 5.28 min



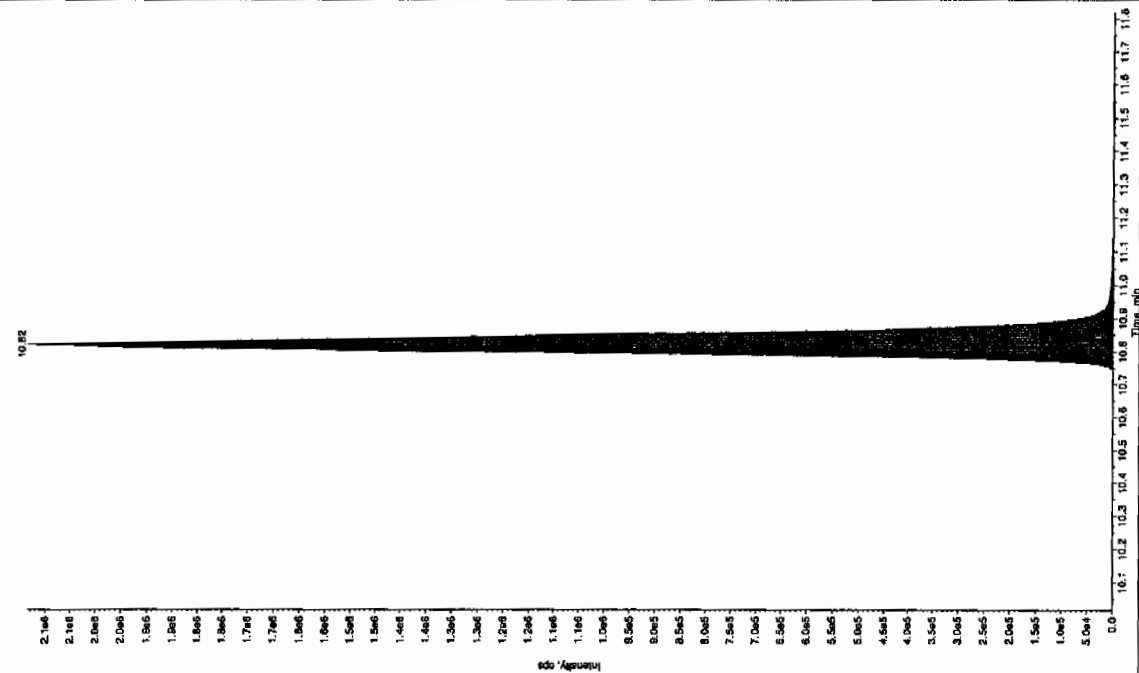
Sample Name: "WXX100301.250V" Sample ID: "11LEP" File: "EX503010011.wif"
 Peak Name: "25-Nitro-4-nitrofluorene" Mass(es): "182.1713.9 amu"
 Command: "LCMSXP_C" Annotation: ""

Sample Index: 1 QC
 Sample Type: 1
 Concentration: 500 ng/mL
 Calculated Conc: 483 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 11:40:26 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.98 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.98 min
 Area: 9.01e+005 counts
 Height: 211703.171 cps
 Start Time: 4.89 min
 End Time: 5.28 min



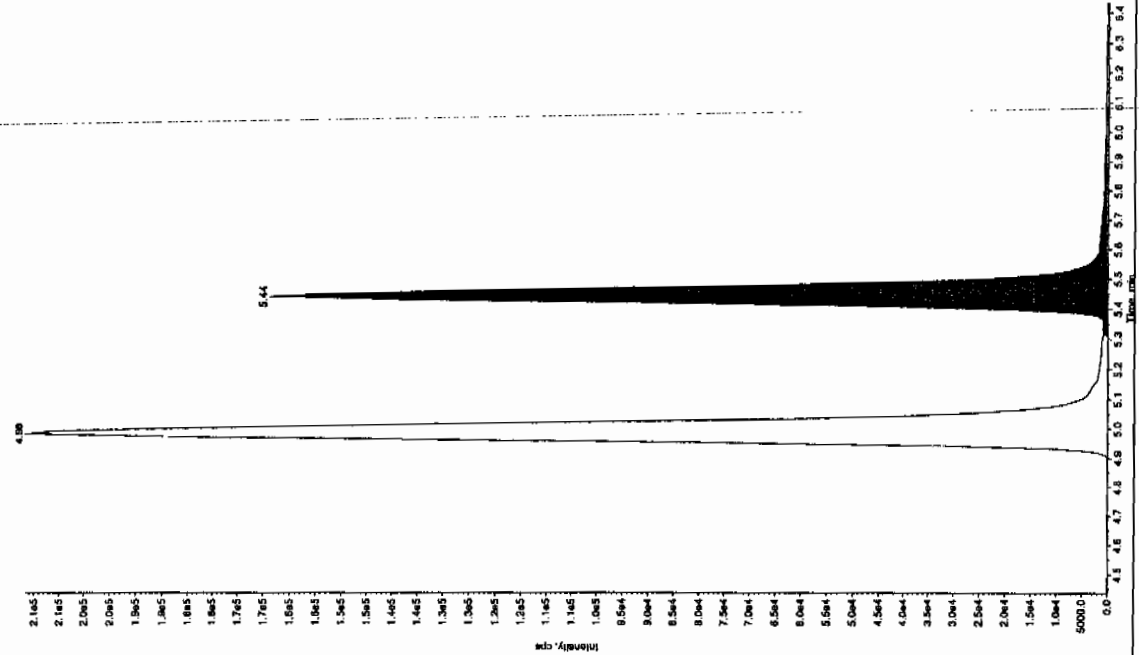
Sample Name: WXX100001-250V Sample ID: 111EP File: EX00010011.wif
 Peak Name: (methyl) phosphatase Mass(es): 369.191.0 amu
 Comment: LCMSEXP_C Annotation: 1

Sample Index: 1
 Sample Type: QC
 Concentration: 500 ng/mL
 Calculated Conc: 480 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 11:40:26 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 7.53e+06 counts
 Height: 2135354.004 cps
 Start Time: 10.7 min
 End Time: 11.2 min



Sample Name: WXX100001-250V Sample ID: 111EP File: EX00010011.wif
 Peak Name: (methyl) phosphatase Mass(es): 166.046.0 amu
 Comment: LCMSEXP_C Annotation: 1

Sample Index: 1
 Sample Type: QC
 Concentration: 500 ng/mL
 Calculated Conc: 503 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 11:40:26 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.44 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.44 min
 Area: 6.68e+05 counts
 Height: 163585.648 cps
 Start Time: 5.31 min
 End Time: 6.14 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0323012a

Analysis Date: 23-MAR-10 14:33

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4-Dinitrotoluene	40	40.855	102	
2,6-Dinitrotoluene	40	39.526	99	
2,6-Dinitrotoluene-d3	500	484.851	97	
2-Amino-4,6-dinitrotoluene	40	41.982	105	
3,4-Dinitrotoluene	20	19.603	98	
4-Amino-2,6-dinitrotoluene	40	41.07	103	
HMX	40	46.731	117	
Nitrobenzene	40	39.137	98	
PETN	40	43.189	108	
RDX	40	43.979	110	
Tetryl	40	44.65	112	
m-Dinitrobenzene	40	42.729	107	
m-Nitrotoluene	40	44.799	112	
o-Nitrotoluene	40	42.092	105	
p-Nitrotoluene	40	44.279	111	
1,3,5-Trinitrobenzene	40	44.728	112	
1,3-Dinitrobenzene-d4	500	482.919	97	
2,4,6-Trinitrotoluene	40	35.085	88	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

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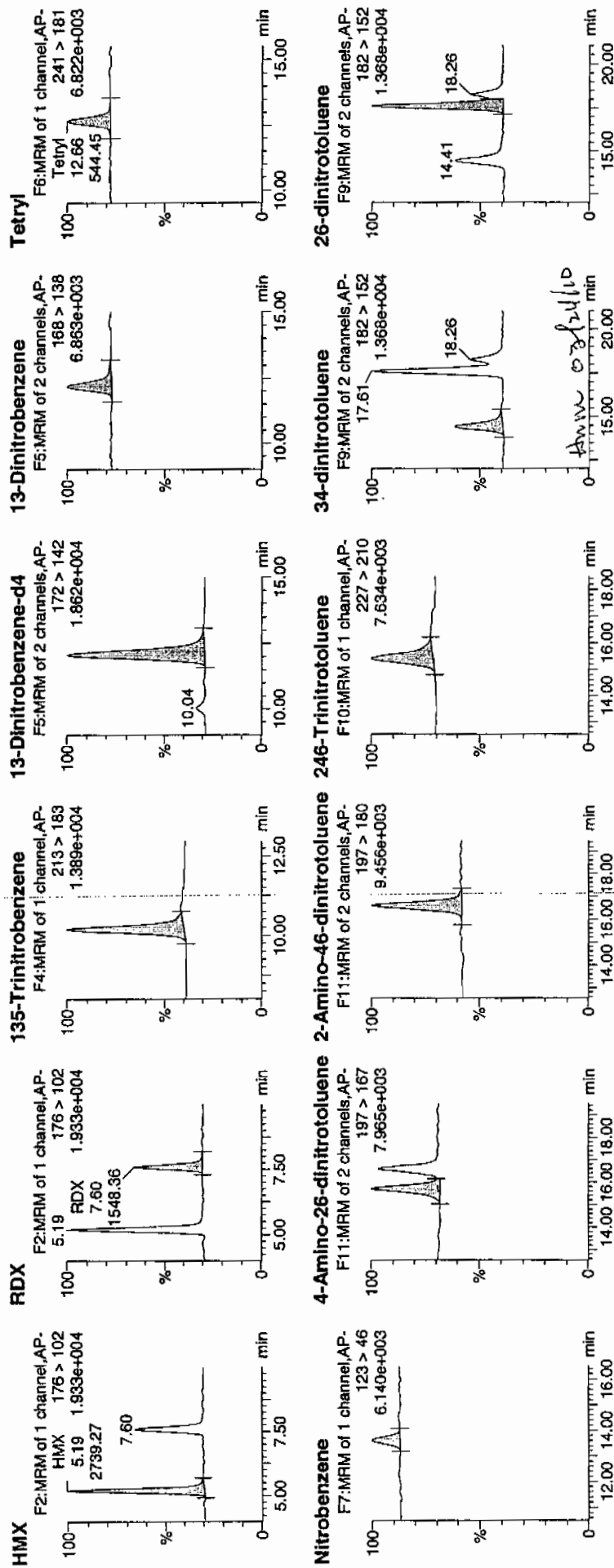
Date: 23-Mar-2010

Time: 14:33:19

ID: WXX100323-08CRI

Vial: 1:1,C

135-
213 > 183
1.389e+004

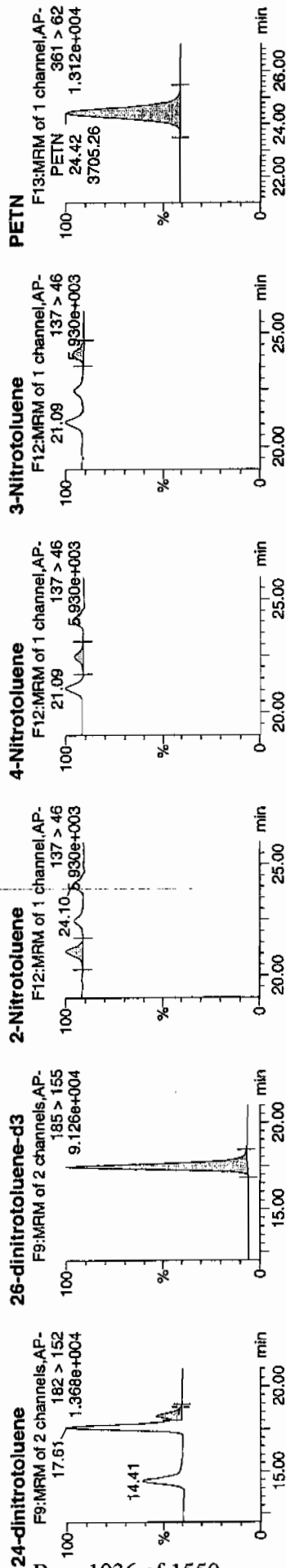


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 24 of 99

Dataset: C:\MASSL\YNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



ID	Name	Trace	RT	Area	IS Area	Abst Resp	Flags	Mod Date	Mod Time	Area/mg	%Rec	%Dev	ISN
WXX100323-08CRI	HMV	176 > 102	5.19	2739.266	5316.234	2739.266	bb			46.7309	116.8	16.8	251.6
WXX100323-08CRI	RDX	176 > 102	7.60	1548.360	5316.234	1548.360	bb			43.9785	109.9	9.9	127.8
WXX100323-08CRI	135-Trinitrobenzene	213 > 183	10.18	2247.627	5316.234	2247.627	bb			44.7278	111.8	11.8	445.9
WXX100323-08CRI	13-Dinitrobenzene-d4	172 > 142	12.06	5316.234	5316.234	5316.234	bb			482.9189	96.6	-3.4	660.7
WXX100323-08CRI	13-Dinitrobenzene	168 > 138	12.20	603.300	5316.234	603.300	bb			42.7286	106.8	6.8	69.7
WXX100323-08CRI	Tetryl	241 > 181	12.66	544.449	5316.234	544.449	bb			44.6503	111.6	11.6	70.1
WXX100323-08CRI	Nitrobenzene	123 > 46	13.61	272.627	5316.234	272.627	bb			39.1374	97.8	-2.2	30.1
WXX100323-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.70	969.114	33387.395	969.114	MM	24-Mar-10	09:21:01	41.0702	102.7	2.7	70.8
WXX100323-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.59	1535.075	33387.395	1535.075	bb			41.9822	105.0	5.0	104.0
WXX100323-08CRI	246-Trinitrotoluene	227 > 210	15.40	960.700	33387.395	960.700	bb			35.0846	87.7	-12.3	35.6
WXX100323-08CRI	34-dinitrotoluene	182 > 152	14.41	1386.049	33387.395	1386.049	bb			19.6028	98.0	-2.0	76.8
WXX100323-08CRI	26-dinitrotoluene	182 > 152	17.61	3053.718	33387.395	3053.718	MM	24-Mar-10	09:24:21	39.5256	98.8	-1.2	212.4
WXX100323-08CRI	24-dinitrotoluene	182 > 152	18.26	757.031	33387.395	757.031	MM	24-Mar-10	09:27:48	40.8550	102.1	2.1	49.7
WXX100323-08CRI	26-dinitrotoluene-d3	185 > 155	17.43	33387.395	33387.395	33387.395	bb			484.8510	97.0	-3.0	2744.6
WXX100323-08CRI	2-Nitrotoluene	137 > 46	21.09	226.665	33387.395	226.665	bb			42.0924	105.2	5.2	67.3
WXX100323-08CRI	4-Nitrotoluene	137 > 46	22.46	115.137	33387.395	115.137	bb			44.2789	110.7	10.7	32.0
WXX100323-08CRI	3-Nitrotoluene	137 > 46	24.10	150.832	33387.395	150.832	bb			44.7990	112.0	12.0	39.5
WXX100323-08CRI	PETN	361 > 62	24.42	3705.264	33387.395	3705.264	bb			43.1894	108.0	8.0	492.3

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/23/10
 Time of Injection 1433
 Standard Number WXX100323-08CRI
 Data File EXP0323012a

HMX	116.8
RDX	109.9
135-TNB	111.8
13-DNB	106.8
Tetryl	111.6
Nitrobenzene	97.8
4A-26-DNT	102.7
2A-46-DNT	105.0
246-TNT	87.7
34-DNT(surr)	98.0
26-DNT	98.8
24-DNT	102.1
2-NT	105.2
4-NT	110.7
3-NT	112.0
PETN	108.0

Handwritten:
 3/24/10

Total 1684.9

Average 105.3

Handwritten: HMM 03/24/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0323023a

Analysis Date: 23-MAR-10 19:57

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	618.225	103	
1,3-Dinitrobenzene-d4	500	527.566	106	
2,4,6-Trinitrotoluene	600	626.233	104	
2,4-Dinitrotoluene	600	641.728	107	
2,6-Dinitrotoluene	600	622.086	104	
2,6-Dinitrotoluene-d3	500	516.532	103	
2-Amino-4,6-dinitrotoluene	600	682.18	114	
3,4-Dinitrotoluene	300	318.667	106	
4-Amino-2,6-dinitrotoluene	600	638.616	106	
HMX	600	775.75	129	*
Nitrobenzene	600	605.281	101	
PETN	600	636.192	106	
RDX	600	766.934	128	*
Tetryl	600	703.31	117	
m-Dinitrobenzene	600	619.864	103	
m-Nitrotoluene	600	587.224	98	
o-Nitrotoluene	600	612.723	102	
p-Nitrotoluene	600	652.819	109	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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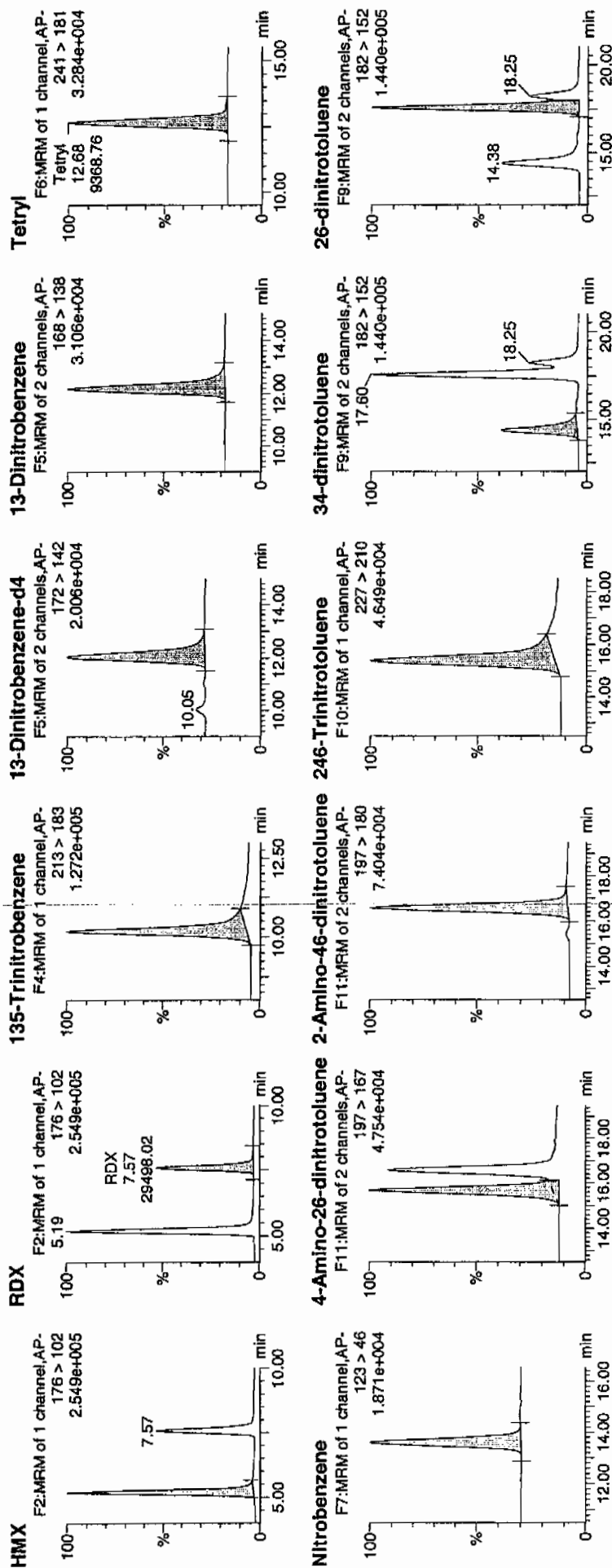
Date: 23-Mar-2010

Time: 19:57:38

ID: WXX100323-07CCV

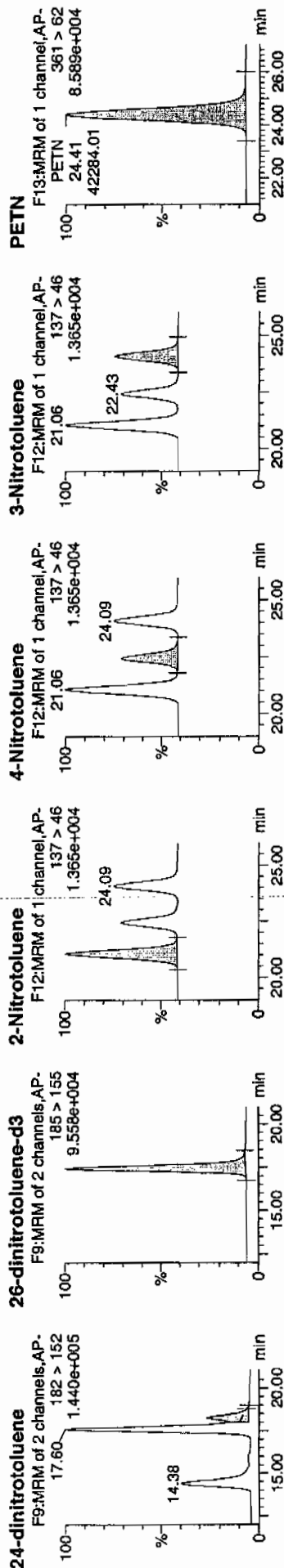
Vial: 1:1,B

12/1/10
3/24/10



Handwritten notes: 12/1/10, 3/24/10

Dataset: C:\MASSLYNX\New_Exp_PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



ID	Name	Trace	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc	%Rec	%Dev	SN
WXX100323-07CCV	HMV	176 > 102	49676.969	5807.738	49676.969	4276.791	bb	24-Mar-10	09:21:43	775.7499	129.3	29.3	1471.7
WXX100323-07CCV	RDX	176 > 102	29498.021	5807.738	29498.021	2539.545	bb			766.9342	127.8	27.8	773.2
WXX100323-07CCV	135-Trinitrobenzene	213 > 183	33938.762	5807.738	33938.762	2921.857	bb			618.2251	103.0	3.0	363.0
WXX100323-07CCV	13-Dinitrobenzene-d4	172 > 142	5807.738	5807.738	5807.738	5807.738	bb			527.5664	105.5	5.5	530.1
WXX100323-07CCV	13-Dinitrobenzene	168 > 138	9561.233	5807.738	9561.233	823.146	bb			619.8643	103.3	3.3	1122.1
WXX100323-07CCV	Tetryl	241 > 181	9368.761	5807.738	9368.761	806.576	bb			703.3099	117.2	17.2	808.1
WXX100323-07CCV	Nitrobenzene	123 > 45	4606.136	5807.738	4606.136	396.552	bb			605.2814	100.9	0.9	436.9
WXX100323-07CCV	4-Amino-26-dinitrotoluene	197 > 167	16053.771	35568.965	16053.771	225.671	MM	24-Mar-10	09:21:43	638.6162	106.4	6.4	555.1
WXX100323-07CCV	2-Amino-46-dinitrotoluene	197 > 180	26573.668	35568.965	26573.668	373.551	bb			682.1795	113.7	13.7	1083.3
WXX100323-07CCV	246-Trinitrotoluene	227 > 210	18268.205	35568.965	18268.205	256.800	bb			626.2328	104.4	4.4	1903.4
WXX100323-07CCV	34-dinitrotoluene	182 > 152	24004.193	35568.965	24004.193	337.432	bb			318.6675	106.2	6.2	745.6
WXX100323-07CCV	26-dinitrotoluene	182 > 152	51202.254	35568.965	51202.254	719.760	MM	24-Mar-10	09:24:58	622.0857	103.7	3.7	2050.7
WXX100323-07CCV	24-dinitrotoluene	182 > 152	12667.996	35568.965	12667.996	178.077	MM	24-Mar-10	09:28:37	641.7283	107.0	7.0	461.8
WXX100323-07CCV	26-dinitrotoluene-d3	185 > 155	35568.965	35568.965	35568.965	35568.965	bb			516.5317	103.3	3.3	2935.3
WXX100323-07CCV	2-Nitrotoluene	137 > 46	3515.065	35568.965	3515.065	49.412	bb			612.7229	102.1	2.1	589.1
WXX100323-07CCV	4-Nitrotoluene	137 > 46	1808.423	35568.965	1808.423	25.421	bb			652.8194	108.8	8.8	299.5
WXX100323-07CCV	3-Nitrotoluene	137 > 46	2108.291	35568.965	2108.291	29.609	bb			587.2244	97.9	-2.1	335.3
WXX100323-07CCV	PETN	361 > 62	42284.008	35568.965	42284.008	594.395	bb			636.1919	106.0	6.0	11544.8

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/23/10
 Time of Injection: 1957
 Standard Number: WXX100323-07CCV
 Data File: EXP0323023a

HMX	129.3
RDX	127.8
135-TNB	103.0
13-DNB	103.3
Tetryl	117.2
Nitrobenzene	100.9
4A-26-DNT	106.4
2A-46-DNT	113.7
246-TNT	104.4
34-DNT(surr)	106.2
26-DNT	103.7
24-DNT	107.0
2-NT	102.1
4-NT	108.8
3-NT	97.9
PETN	106.0

*246-TNT
3/24/10*

Total 1737.7

Average 108.6

Handwritten: 03/24/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0323025a

Analysis Date: 23-MAR-10 20:56

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Dinitrobenzene	40	41.891	105	
m-Nitrotoluene	40	39.158	98	
o-Nitrotoluene	40	44.793	112	
p-Nitrotoluene	40	35.3	88	
1,3,5-Trinitrobenzene	40	43.551	109	
1,3-Dinitrobenzene-d4	500	578.273	116	
2,4,6-Trinitrotoluene	40	36.796	92	
2,4-Dinitrotoluene	40	36.274	91	
2,6-Dinitrotoluene	40	39.059	98	
2,6-Dinitrotoluene-d3	500	625.064	125	
2-Amino-4,6-dinitrotoluene	40	35.345	88	
3,4-Dinitrotoluene	20	18.965	95	
4-Amino-2,6-dinitrotoluene	40	37.682	94	
HMX	40	43.341	108	
Nitrobenzene	40	37.897	95	
PETN	40	34.251	86	
RDX	40	42.597	106	
Tetryl	40	36.872	92	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Name: C:\MASSLYNX\NEW_EXP\PROData\EXP0323025a

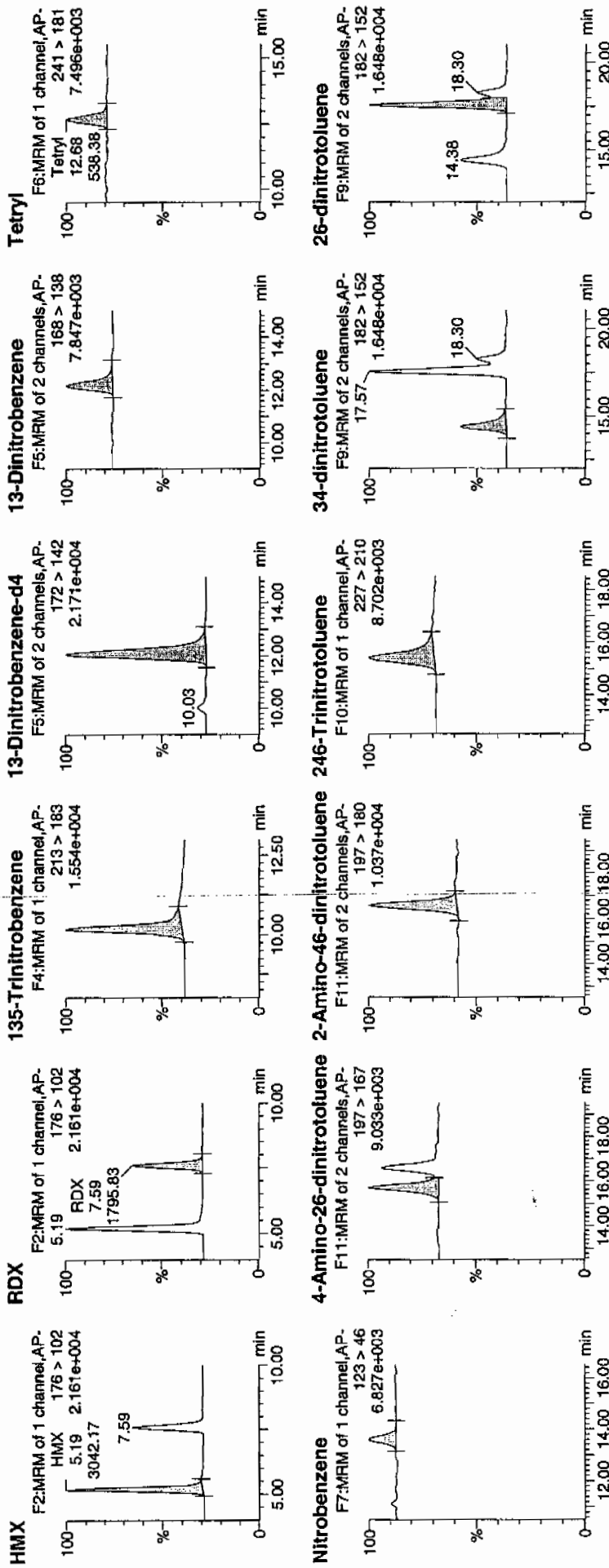
Date: 23-Mar-2010

Time: 20:56:42

ID: WXX100323-08CRI

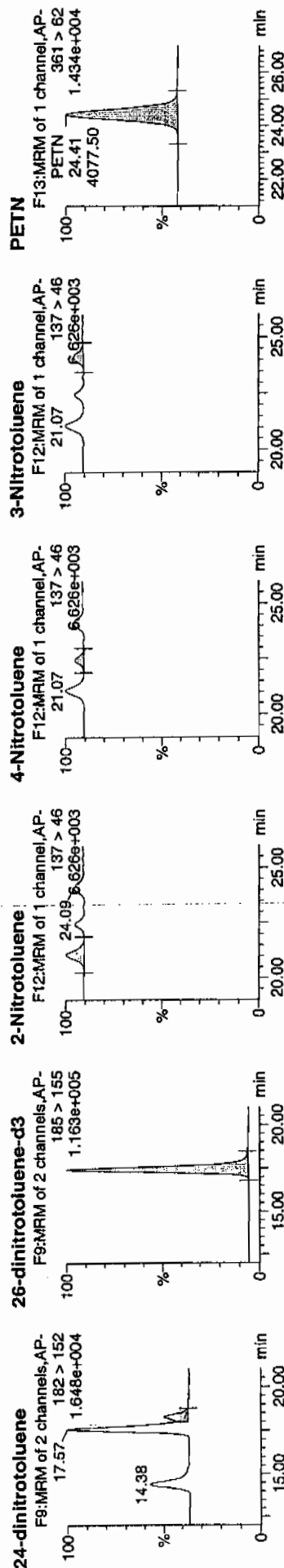
Vial: 1:1,C

WAT
 3/24/10



01/10/10
 E.O.
 MWA

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ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Intg/ml	%Rec	%Dev	SN
WXX100323-08C1	HMx	176 > 102	5.19	3042.172	6365.946	3042.172	238.941	bb			43.3406	108.4	8.4	237.9
WXX100323-08C1	RDX	176 > 102	7.59	1795.832	6365.946	1795.832	141.050	bb			42.5966	106.5	6.5	121.7
WXX100323-08C1	135-Trinitrobenzene	213 > 183	10.18	2620.612	6365.946	2620.612	205.831	bb			43.5509	108.9	8.9	183.8
WXX100323-08C1	13-Dinitrobenzene-d4	172 > 142	12.07	6365.946		6365.946	6365.946	bb			578.2732	115.7	15.7	466.5
WXX100323-08C1	13-Dinitrobenzene	168 > 138	12.20	708.269	6365.946	708.269	55.630	bb			41.8914	104.7	4.7	72.5
WXX100323-08C1	Tetryl	241 > 181	12.68	538.375	6365.946	538.375	42.286	bb			36.8717	92.2	-7.8	60.2
WXX100323-08C1	Nitrobenzene	123 > 46	13.58	316.111	6365.946	316.111	24.828	bb			37.8969	94.7	-5.3	11.9
WXX100323-08C1	4-Amino-26-dinitrotoluene	197 > 167	15.68	1146.295	43042.656	1146.295	13.316	MM	24-Mar-10	09:21:55	37.6818	94.2	-5.8	48.6
WXX100323-08C1	2-Amino-46-dinitrotoluene	197 > 180	16.58	1666.137	43042.656	1666.137	19.354	bb			35.3452	88.4	-11.6	109.1
WXX100323-08C1	246-Trinitrotoluene	227 > 210	15.41	1298.920	43042.656	1298.920	15.089	bb			36.7955	92.0	-8.0	71.0
WXX100323-08C1	34-dinitrotoluene	182 > 152	14.38	1728.770	43042.656	1728.770	20.082	bb			18.9653	94.8	-5.2	115.8
WXX100323-08C1	26-dinitrotoluene	182 > 152	17.57	3890.302	43042.656	3890.302	45.191	MM	24-Mar-10	09:25:06	39.0586	97.6	-2.4	351.9
WXX100323-08C1	24-dinitrotoluene	182 > 152	18.30	866.515	43042.656	866.515	10.066	MM	24-Mar-10	09:28:45	35.2737	90.7	-9.3	71.2
WXX100323-08C1	26-dinitrotoluene-d3	185 > 155	17.42	43042.656		43042.656	43042.656	bb			625.0645	125.0	25.0	3341.8
WXX100323-08C1	2-Nitrotoluene	137 > 46	21.07	310.960	43042.656	310.960	3.612	bb			44.7927	112.0	12.0	12.3
WXX100323-08C1	4-Nitrotoluene	137 > 46	22.45	118.335	43042.656	118.335	1.375	bb			35.3003	88.3	-11.7	5.7
WXX100323-08C1	3-Nitrotoluene	137 > 46	24.09	169.964	43042.656	169.964	1.974	bb			39.1575	97.9	-2.1	6.4
WXX100323-08C1	PETN	361 > 62	24.41	4077.497	43042.656	4077.497	47.366	bb			34.2508	85.6	-14.4	415.8

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/23/10
 Time of Injection 2056
 Standard Number WXX100323-08CRI
 Data File EXP0323025a

HMX	108.4
RDX	106.5
135-TNB	108.9
13-DNB	104.7
Tetryl	92.2
Nitrobenzene	94.7
4A-26-DNT	94.2
2A-46-DNT	88.4
246-TNT	92.0
34-DNT(surr)	94.8
26-DNT	97.6
24-DNT	90.7
2-NT	112.0
4-NT	88.3
3-NT	97.9
PETN	85.6

*MAF
3/24/10*

Total 1556.9

Average 97.3

ANAL 03/24/10

ICV Limits 85-115%
 CRI Limits 70-130%
 CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0323036a

Analysis Date: 24-MAR-10 02:21

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene-d3	500	508.988	102	
2-Amino-4,6-dinitrotoluene	600	653.379	109	
3,4-Dinitrotoluene	300	321.856	107	
4-Amino-2,6-dinitrotoluene	600	620.656	103	
HMX	600	618.029	103	
Nitrobenzene	600	536.553	89	
PETN	600	641.859	107	
RDX	600	653.059	109	
Tetryl	600	658.046	110	
m-Dinitrobenzene	600	611.433	102	
m-Nitrotoluene	600	567.971	95	
o-Nitrotoluene	600	566.873	94	
p-Nitrotoluene	600	613.653	102	
1,3,5-Trinitrobenzene	600	577.175	96	
1,3-Dinitrobenzene-d4	500	575.9	115	
2,4,6-Trinitrotoluene	600	619.991	103	
2,4-Dinitrotoluene	600	633.316	106	
2,6-Dinitrotoluene	600	619.655	103	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

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Date: 24-Mar-2010

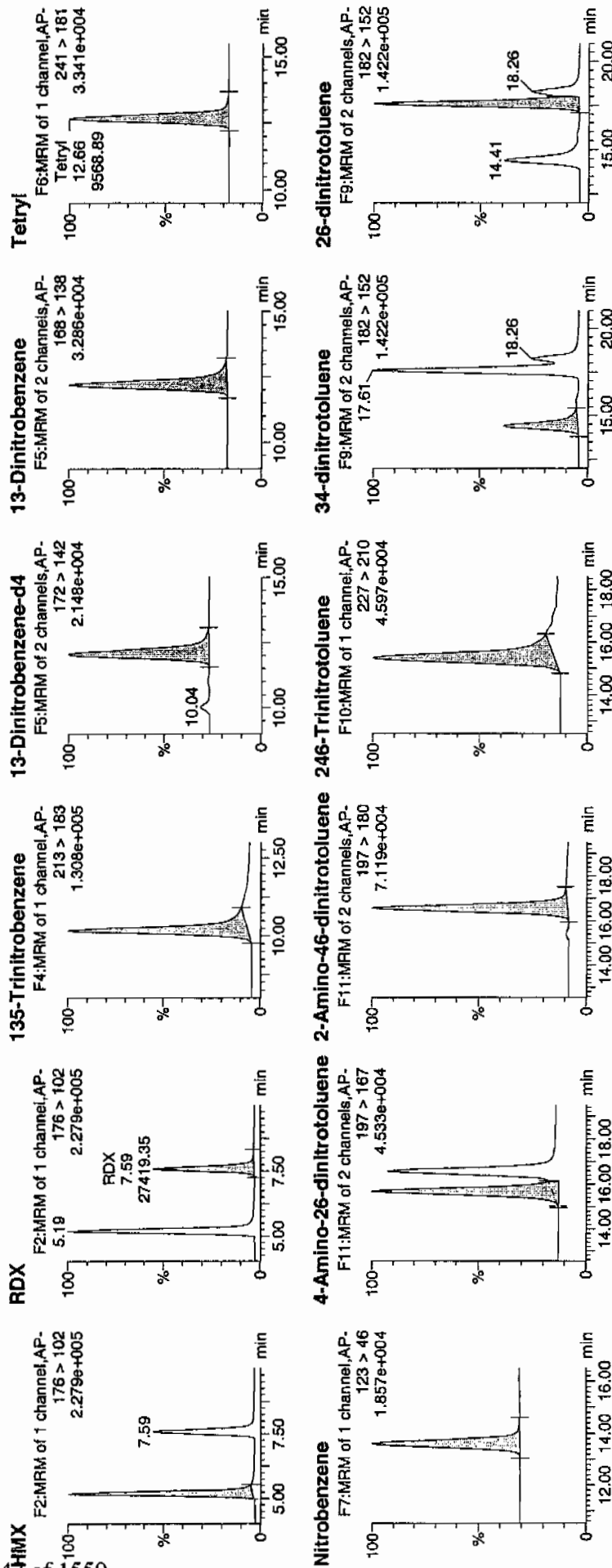
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ID: WXX100323-07CCV

Vial: 1:1,B

WXX
3/24/10

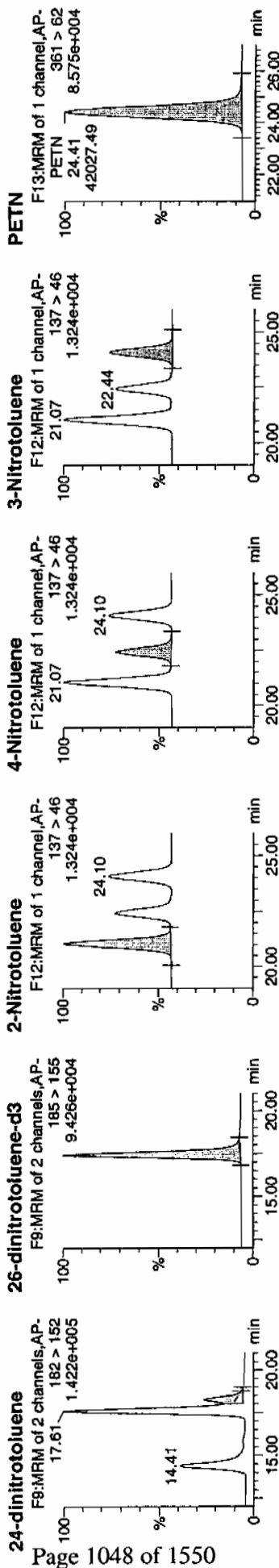
104 of 1550



WXX
3/24/10

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ID	Name	Trace	RT	Area	S Area	Response	Flags	Mod Date	Mod Time	Int	Area	%Dev	SN
WXX100323-07CCV	HMX	176 > 102	5.19	43202.789	6339.820	3407.257	bb			618.0285	103.0	3.0	4137.3
WXX100323-07CCV	RDX	176 > 102	7.59	27419.350	6339.820	2162.471	bb			653.0591	108.8	8.8	2257.6
WXX100323-07CCV	135-Trinitrobenzene	213 > 183	10.18	34588.102	6339.820	2727.846	bb			577.1749	96.2	-3.8	1450.1
WXX100323-07CCV	13-Dinitrobenzene	172 > 142	12.06	6339.820		6339.820	bb			575.9000	115.2	15.2	988.1
WXX100323-07CCV	Tetryl	168 > 138	12.17	10295.225	6339.820	811.949	bb			611.4327	101.9	1.9	1166.6
WXX100323-07CCV	Nitrobenzene	241 > 181	12.66	9568.891	6339.820	754.666	bb			658.0460	109.7	9.7	919.0
WXX100323-07CCV	4-Amino-2,6-dinitrotoluene	123 > 46	13.61	4457.201	6339.820	351.524	bb			536.5533	89.4	-10.6	722.7
WXX100323-07CCV	2-Amino-4,6-dinitrotoluene	197 > 167	15.67	15374.411	35049.496	219.324	MM	24-Mar-10	09:22:18	620.6558	103.4	3.4	979.2
WXX100323-07CCV	246-Trinitrotoluene	197 > 180	16.57	25080.061	35049.496	357.781	bb			653.3791	108.9	8.9	1865.2
WXX100323-07CCV	34-dinitrotoluene	227 > 210	15.40	17821.988	35049.496	254.240	bb			619.9912	103.3	3.3	338.4
WXX100323-07CCV	26-dinitrotoluene	182 > 152	14.41	23890.289	35049.496	340.808	bb			321.8559	107.3	7.3	730.9
WXX100323-07CCV	24-dinitrotoluene	182 > 152	17.61	50257.344	35049.496	716.948	MM	24-Mar-10	09:25:22	619.6552	103.3	3.3	2025.6
WXX100323-07CCV	28-dinitrotoluene-d3	182 > 152	18.26	12319.353	35049.496	175.742	MM	24-Mar-10	09:28:57	633.3162	105.6	5.6	441.6
WXX100323-07CCV	2-Nitrotoluene	185 > 155	17.43	35049.496		35049.496	bb			508.9880	101.8	1.8	2133.3
WXX100323-07CCV	4-Nitrotoluene	137 > 46	21.07	3204.540	35049.496	45.714	bb			566.8732	94.5	-5.5	213.2
WXX100323-07CCV	3-Nitrotoluene	137 > 46	22.44	1675.098	35049.496	23.896	bb			613.6528	102.3	2.3	108.3
WXX100323-07CCV	PETN	361 > 62	24.10	2007.479	35049.496	28.638	bb			567.9711	94.7	-5.3	123.0
WXX100323-07CCV			24.41	42027.492	35049.496	599.545	bb			641.8591	107.0	7.0	22480.6

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/24/10
 Time of Injection: 0221
 Standard Number: WXX100323-07CCV
 Data File: EXP0323036a

HMX	103.0
RDX	108.8
135-TNB	96.2
13-DNB	101.9
Tetryl	109.7
Nitrobenzene	89.4
4A-26-DNT	103.4
2A-46-DNT	108.9
246-TNT	103.3
34-DNT(surr)	107.3
26-DNT	103.3
24-DNT	105.6
2-NT	94.5
4-NT	102.3
3-NT	94.7
PETN	107.0

Handwritten:
 103.7
 3/24/10

Total 1639.3

Handwritten: HMM 03/24/10

Average 102.5

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0323038a

Analysis Date: 24-MAR-10 03:20

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	45.654	114	
1,3-Dinitrobenzene-d4	500	578.299	116	
2,4,6-Trinitrotoluene	40	40.179	100	
2,4-Dinitrotoluene	40	42.924	107	
2,6-Dinitrotoluene	40	40.014	100	
2,6-Dinitrotoluene-d3	500	568.942	114	
2-Amino-4,6-dinitrotoluene	40	41.784	104	
3,4-Dinitrotoluene	20	23.698	118	
4-Amino-2,6-dinitrotoluene	40	39.666	99	
HMX	40	48.156	120	
Nitrobenzene	40	40.635	102	
PETN	40	42.98	107	
RDX	40	42.128	105	
Tetryl	40	37.542	94	
m-Dinitrobenzene	40	41.281	103	
m-Nitrotoluene	40	41.221	103	
o-Nitrotoluene	40	41.666	104	
p-Nitrotoluene	40	36.98	92	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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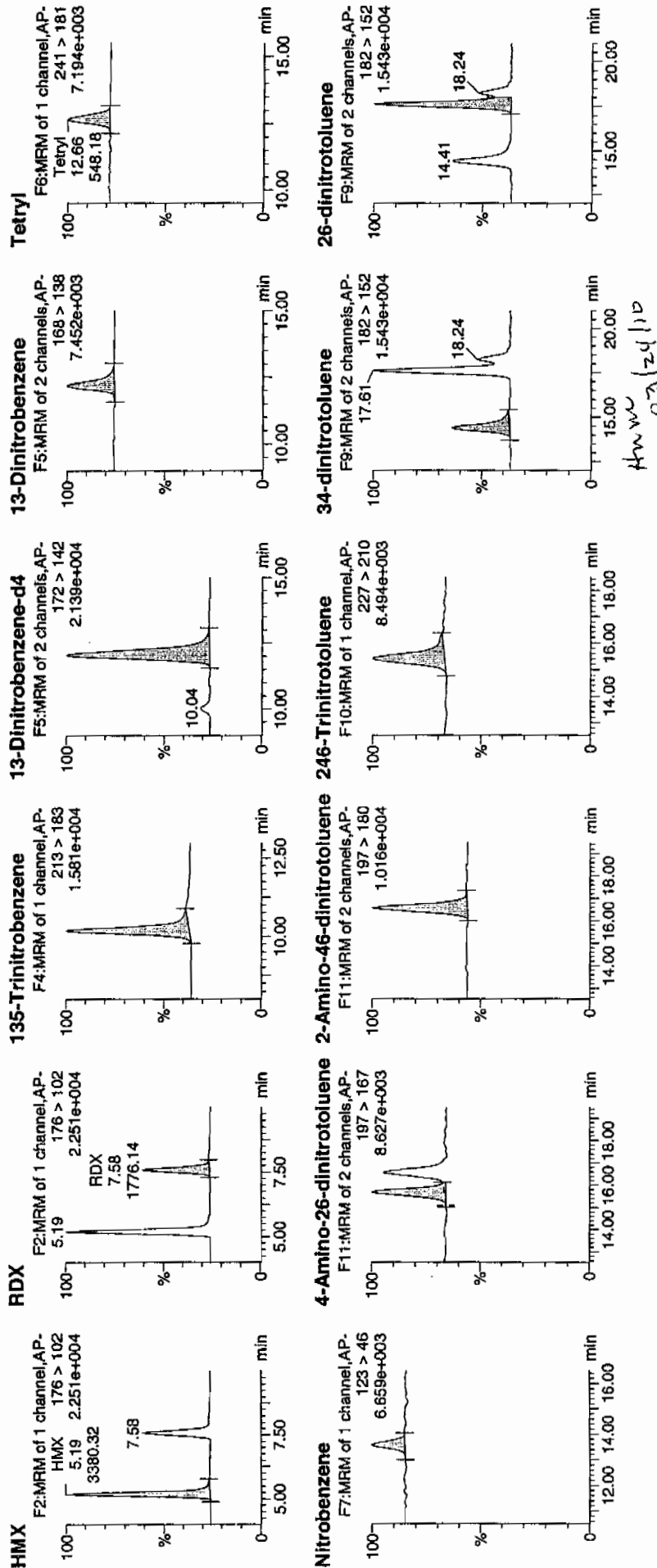
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Time: 03:20:06

Page ID: WXX100323-08CRI

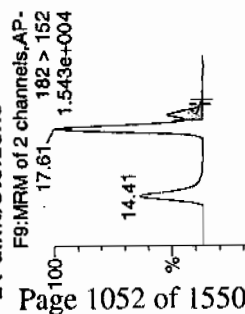
Vial: 1:1,C

10/11/10
3/24/10

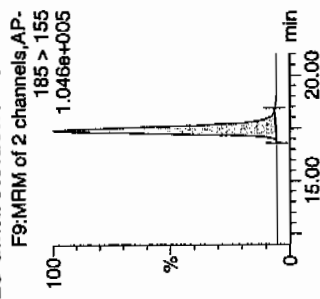


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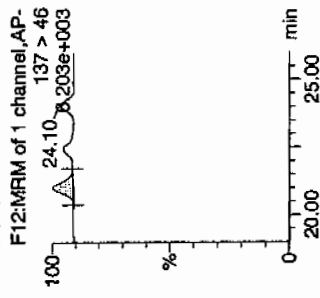
24-dinitrotoluene



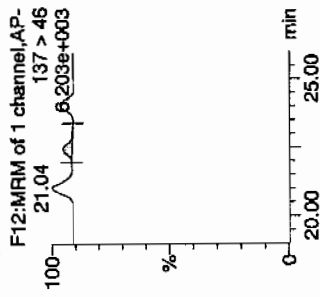
26-dinitrotoluene-d3



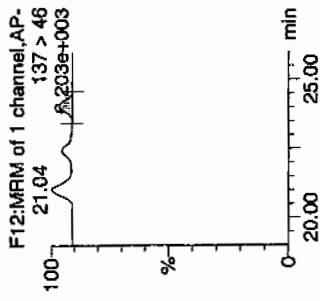
2-Nitrotoluene



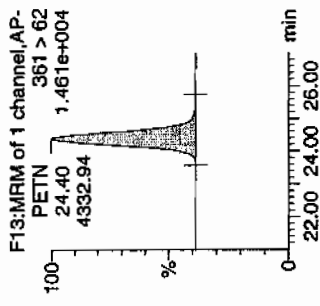
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Area	%Area	S/N
WXX100323-08CfI	HMx	176 > 102	5.19	3380.315	6366.227	3380.315	265.488	bb	24-Mar-10	09:22:26	48.1558	120.4	244.5
WXX100323-08CfI	RDX	176 > 102	7.58	1776.142	6366.227	1776.142	139.497	bb	24-Mar-10	09:22:26	42.1277	105.3	115.1
WXX100323-08CfI	135-Trinitrobenzene	213 > 183	10.18	2747.295	6366.227	2747.295	215.771	bb	24-Mar-10	09:22:26	45.6542	114.1	337.5
WXX100323-08CfI	13-Dinitrobenzene-d4	172 > 142	12.06	6366.227	6366.227	6366.227	6366.227	bb	24-Mar-10	09:22:26	578.2987	115.7	491.1
WXX100323-08CfI	13-Dinitrobenzene	168 > 138	12.17	697.986	6366.227	697.986	54.819	bb	24-Mar-10	09:22:26	41.2814	103.2	80.2
WXX100323-08CfI	Tetryl	241 > 181	12.66	548.183	6366.227	548.183	43.054	bb	24-Mar-10	09:22:26	37.5418	93.9	40.7
WXX100323-08CfI	Nitrobenzene	123 > 46	13.57	338.961	6366.227	338.961	26.622	bb	24-Mar-10	09:22:26	40.6345	101.6	24.8
WXX100323-08CfI	4-Amino-26-dinitrotoluene	197 > 167	15.70	1098.308	39177.973	1098.308	14.017	MM	24-Mar-10	09:22:26	39.6658	99.2	60.9
WXX100323-08CfI	2-Amino-46-dinitrotoluene	197 > 180	16.57	1792.816	39177.973	1792.816	22.880	bb	24-Mar-10	09:22:26	41.7842	104.5	158.5
WXX100323-08CfI	246-Trinitrotoluene	227 > 210	15.40	1291.005	39177.973	1291.005	16.476	bb	24-Mar-10	09:22:26	40.1788	100.4	66.9
WXX100323-08CfI	34-dinitrotoluene	182 > 152	14.41	1966.236	39177.973	1966.236	25.084	bb	24-Mar-10	09:22:26	23.6982	118.5	117.7
WXX100323-08CfI	26-dinitrotoluene	182 > 152	17.61	3627.584	39177.973	3627.584	46.296	MM	24-Mar-10	09:22:26	40.0136	100.0	277.8
WXX100323-08CfI	24-dinitrotoluene	182 > 152	18.24	933.307	39177.973	933.307	11.911	MM	24-Mar-10	09:22:26	42.9237	107.3	65.3
WXX100323-08CfI	26-dinitrotoluene-d3	185 > 155	17.41	39177.973	39177.973	39177.973	39177.973	bb	24-Mar-10	09:22:26	568.9416	113.8	2237.2
WXX100323-08CfI	2-Nitrotoluene	137 > 46	21.04	263.285	39177.973	263.285	3.360	bb	24-Mar-10	09:22:26	41.6664	104.2	29.3
WXX100323-08CfI	4-Nitrotoluene	137 > 46	22.47	112.834	39177.973	112.834	1.440	bb	24-Mar-10	09:22:26	36.9796	92.4	12.6
WXX100323-08CfI	3-Nitrotoluene	137 > 46	24.10	162.856	39177.973	162.856	2.078	bb	24-Mar-10	09:22:26	41.2210	103.1	18.7
WXX100323-08CfI	PETN	361 > 62	24.40	4332.945	39177.973	4332.945	55.298	bb	24-Mar-10	09:22:26	42.9795	107.4	2404.9

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/24/10
 Time of Injection 0320
 Standard Number WXX100323-08CRI
 Data File EXP0323038a

HMX	120.4
RDX	105.3
135-TNB	114.1
13-DNB	103.2
Tetryl	93.9
Nitrobenzene	101.6
4A-26-DNT	99.2
2A-46-DNT	104.5
246-TNT	100.4
34-DNT(surr)	118.5
26-DNT	100.0
24-DNT	107.3
2-NT	104.2
4-NT	92.4
3-NT	103.1
PETN	107.4

WAT
3/24/10

Total 1675.5

HMM 03/24/10

Average

104.7

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0323047a

Analysis Date: 24-MAR-10 07:45

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
Tetryl	600	747.317	125	*
m-Dinitrobenzene	600	643.102	107	
m-Nitrotoluene	600	595.728	99	
o-Nitrotoluene	600	613.859	102	
p-Nitrotoluene	600	639.266	107	
1,3,5-Trinitrobenzene	600	615.829	103	
1,3-Dinitrobenzene-d4	500	538.76	108	
2,4,6-Trinitrotoluene	600	626.253	104	
2,4-Dinitrotoluene	600	632.264	105	
2,6-Dinitrotoluene	600	616.827	103	
2,6-Dinitrotoluene-d3	500	506.856	101	
2-Amino-4,6-dinitrotoluene	600	709.295	118	
3,4-Dinitrotoluene	300	329.347	110	
4-Amino-2,6-dinitrotoluene	600	664.121	111	
HMX	600	725.562	121	*
Nitrobenzene	600	556.166	93	
PETN	600	665.305	111	
RDX	600	706.667	118	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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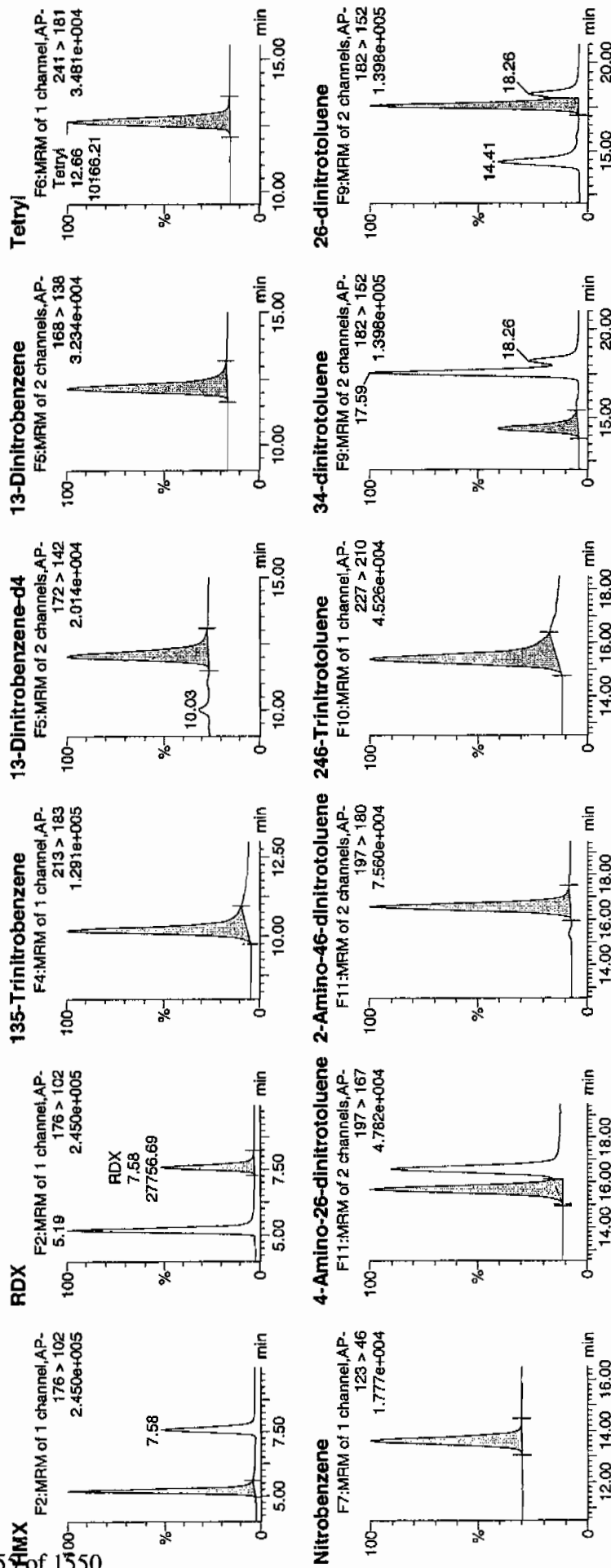
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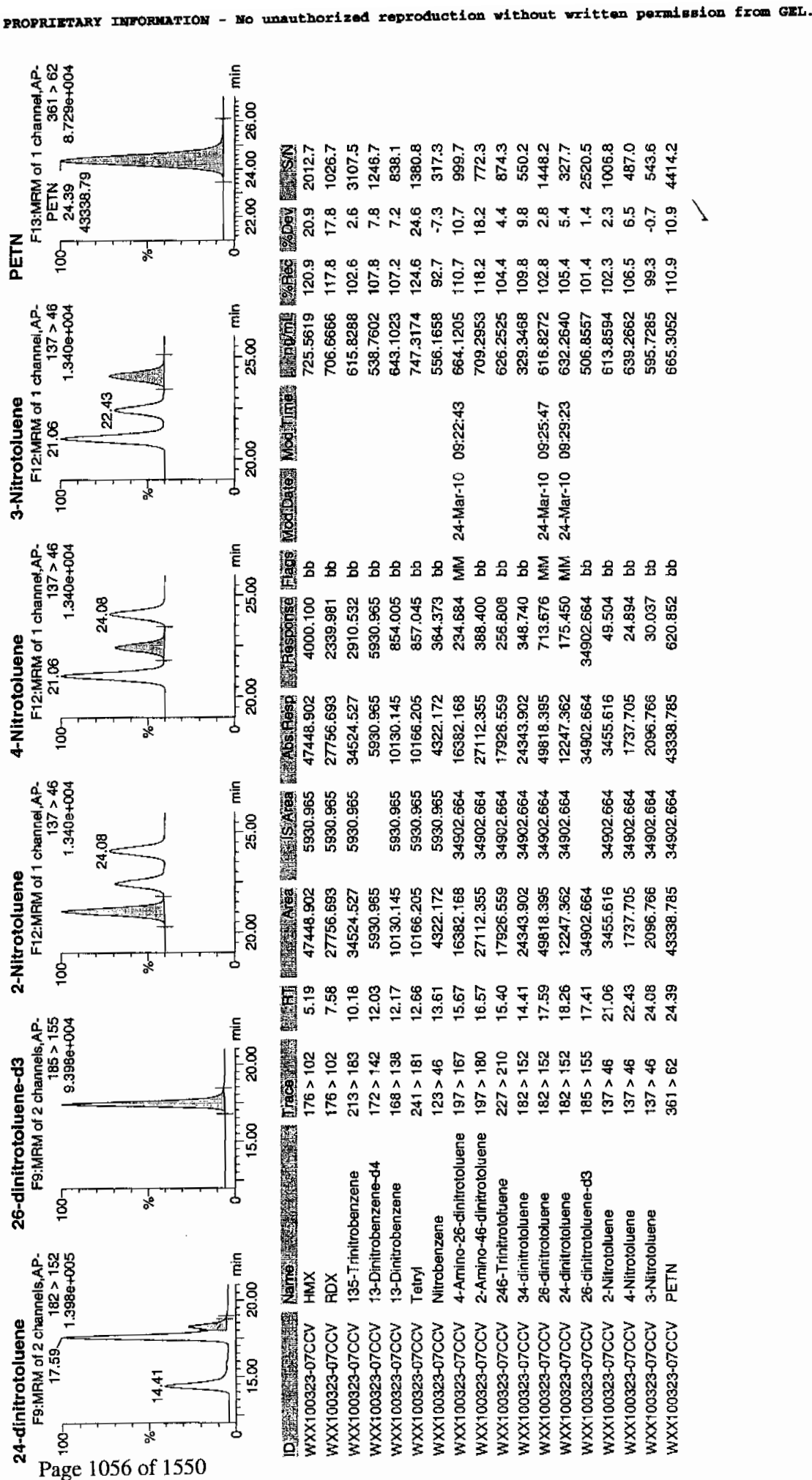
Vial: 1:1,B

100%
3/24/10



Handwritten signature/initials

Dataset: C:\MASSLYNX\New_Exp\PRO032310expA.qld, Time: Wed Mar 24 09:29:41 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/24/10
 Time of Injection: 0745
 Standard Number: WXX100323-07CCV
 Data File: EXP0323047a

HMX	120.9	✓
RDX	117.8	✓
135-TNB	102.6	✓
13-DNB	107.2	
Tetryl	124.6	
Nitrobenzene	92.7	
4A-26-DNT	110.7	
2A-46-DNT	118.2	
246-TNT	104.4	
34-DNT(surr)	109.8	
26-DNT	102.8	
24-DNT	105.4	
2-NT	102.3	
4-NT	106.5	
3-NT	99.3	
PETN	110.9	

107
3/24/10

Total 1736.1

Hmm 03/24/10

Average 108.5

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0323049a

Analysis Date: 24-MAR-10 08:44

LCMSMS ID: 203

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2-Amino-4,6-dinitrotoluene	40	41.485	104	
3,4-Dinitrotoluene	20	21.335	107	
4-Amino-2,6-dinitrotoluene	40	41.766	104	
HMX	40	49.844	125	
Nitrobenzene	40	34.492	86	
PETN	40	40.675	102	
RDX	40	45.987	115	
Tetryl	40	35.013	88	
m-Dinitrobenzene	40	36.691	92	
m-Nitrotoluene	40	40.219	101	
o-Nitrotoluene	40	41.552	104	
p-Nitrotoluene	40	34.803	87	
1,3,5-Trinitrobenzene	40	47.063	118	
1,3-Dinitrobenzene-d4	500	561.116	112	
2,4,6-Trinitrotoluene	40	37.222	93	
2,4-Dinitrotoluene	40	35.725	89	
2,6-Dinitrotoluene	40	41.3	103	
2,6-Dinitrotoluene-d3	500	588.805	118	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 97 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323049a

Date: 24-Mar-2010

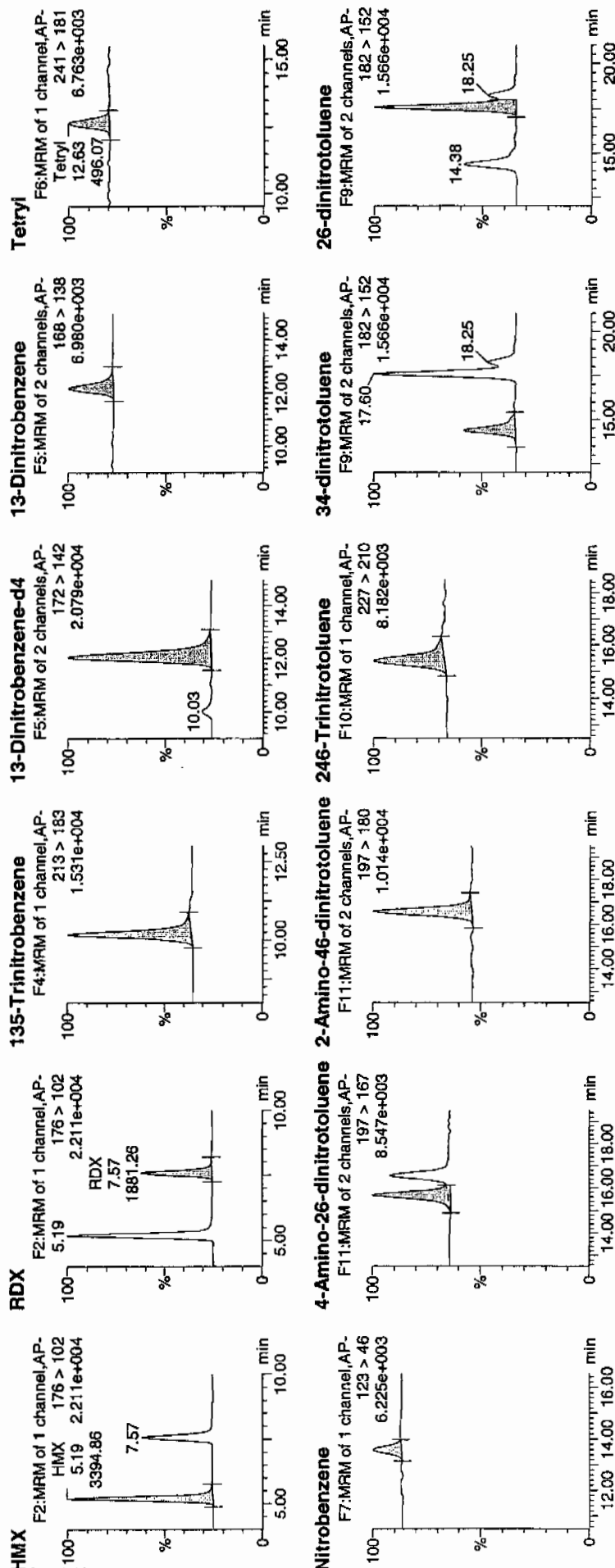
Time: 08:44:30

ID: WXX100323-08CRI

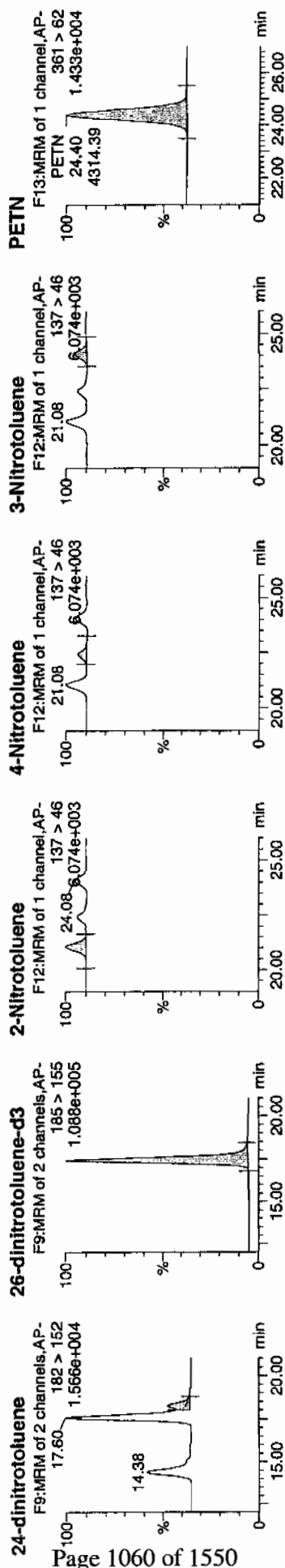
Vial: 1:1,C

WPP
3/24/10

1059 of 1550



HW
03/24/10



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Flags	Mod Date	Mod Time	Info	ML	%Rec	%Dev	ISN	
WXX100323-08CRI	HMx	176 > 102	5.19	3394.862	6177.075	3394.862	274.795	bb		49.8440	124.6	24.6	373.8		
WXX100323-08CRI	RDX	176 > 102	7.57	1881.264	6177.075	1881.264	152.278	bb		45.9874	115.0	15.0	183.8		
WXX100323-08CRI	135-Trinitrobenzene	213 > 183	10.18	2747.943	6177.075	2747.943	222.431	bb		47.0633	117.7	17.7	189.1		
WXX100323-08CRI	13-Dinitrobenzene-d4	172 > 142	12.03	6177.075		6177.075	6177.075	bb		561.1164	112.2	12.2	723.8		
WXX100323-08CRI	13-Dinitrobenzene	168 > 138	12.17	601.941	6177.075	601.941	48.724	bb		35.6911	91.7	-8.3	69.4		
WXX100323-08CRI	Tetryl	241 > 181	12.63	496.068	6177.075	496.068	40.154	bb		35.0130	87.5	-12.5	65.5		
WXX100323-08CRI	Nitrobenzene	123 > 46	13.58	279.173	6177.075	279.173	22.598	bb		34.4920	86.2	-13.8	30.1		
WXX100323-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.68	1196.828	40545.816	1196.828	14.759	MM	24-Mar-10	09:22:50	41.7657	104.4	4.4	70.6	
WXX100323-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.58	1842.135	40545.816	1842.135	22.717	bb		41.4853	103.7	3.7	179.8		
WXX100323-08CRI	246-Trinitrotoluene	227 > 210	15.41	1237.761	40545.816	1237.761	15.264	bb		37.2222	93.1	-6.9	73.0		
WXX100323-08CRI	34-dinitrotoluene	182 > 152	14.38	1831.947	40545.816	1831.947	22.591	bb		21.3348	106.7	6.7	99.0		
WXX100323-08CRI	26-dinitrotoluene	182 > 152	17.60	3874.927	40545.816	3874.927	47.785	MM	24-Mar-10	09:25:56	41.3000	103.2	3.2	271.9	
WXX100323-08CRI	24-dinitrotoluene	182 > 152	18.25	803.896	40545.816	803.896	9.913	MM	24-Mar-10	09:29:31	35.7247	89.3	-10.7	50.9	
WXX100323-08CRI	26-dinitrotoluene-d3	185 > 155	17.42	40545.816		40545.816	40545.816	bb		588.8054	117.8	17.8	2316.3		
WXX100323-08CRI	2-Nitrotoluene	137 > 46	21.08	271.729	40545.816	271.729	3.351	bb		41.5520	103.9	3.9	69.5		
WXX100323-08CRI	4-Nitrotoluene	137 > 46	22.45	109.900	40545.816	109.900	1.355	bb		34.8029	87.0	-13.0	27.8		
WXX100323-08CRI	3-Nitrotoluene	137 > 46	24.08	164.443	40545.816	164.443	2.028	bb		40.2185	100.5	0.5	37.2		
WXX100323-08CRI	PETN	361 > 62	24.40	4314.385	40545.816	4314.385	53.204	bb		40.6749	101.7	1.7	1131.0		

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/24/10
 Time of Injection 0844
 Standard Number WXX100323-08CRI
 Data File EXP0323049a

HMX	124.6
RDX	115.0
135-TNB	117.7
13-DNB	91.7
Tetryl	87.5
Nitrobenzene	86.2
4A-26-DNT	104.4
2A-46-DNT	103.7
246-TNT	93.1
34-DNT(surr)	106.7
26-DNT	103.2
24-DNT	89.3
2-NT	103.9
4-NT	87.0
3-NT	100.5
PETN	101.7

*ALERT
3/24/10*

Total 1616.2

Average 101.0

ALERT 03/24/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010013.wiff

Analysis Date: 01-MAR-10 12:11

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	99.6	100	
2,6-Diamino-4-nitrotoluene	100	99.3	99	
3,4-Dinitrotoluene	50	52.9	106	
3,5-Dinitroaniline	100	100	100	
TATB	100	104	104	
tris(o-cresyl) phosphate	100	101	101	

Recovery Limits:

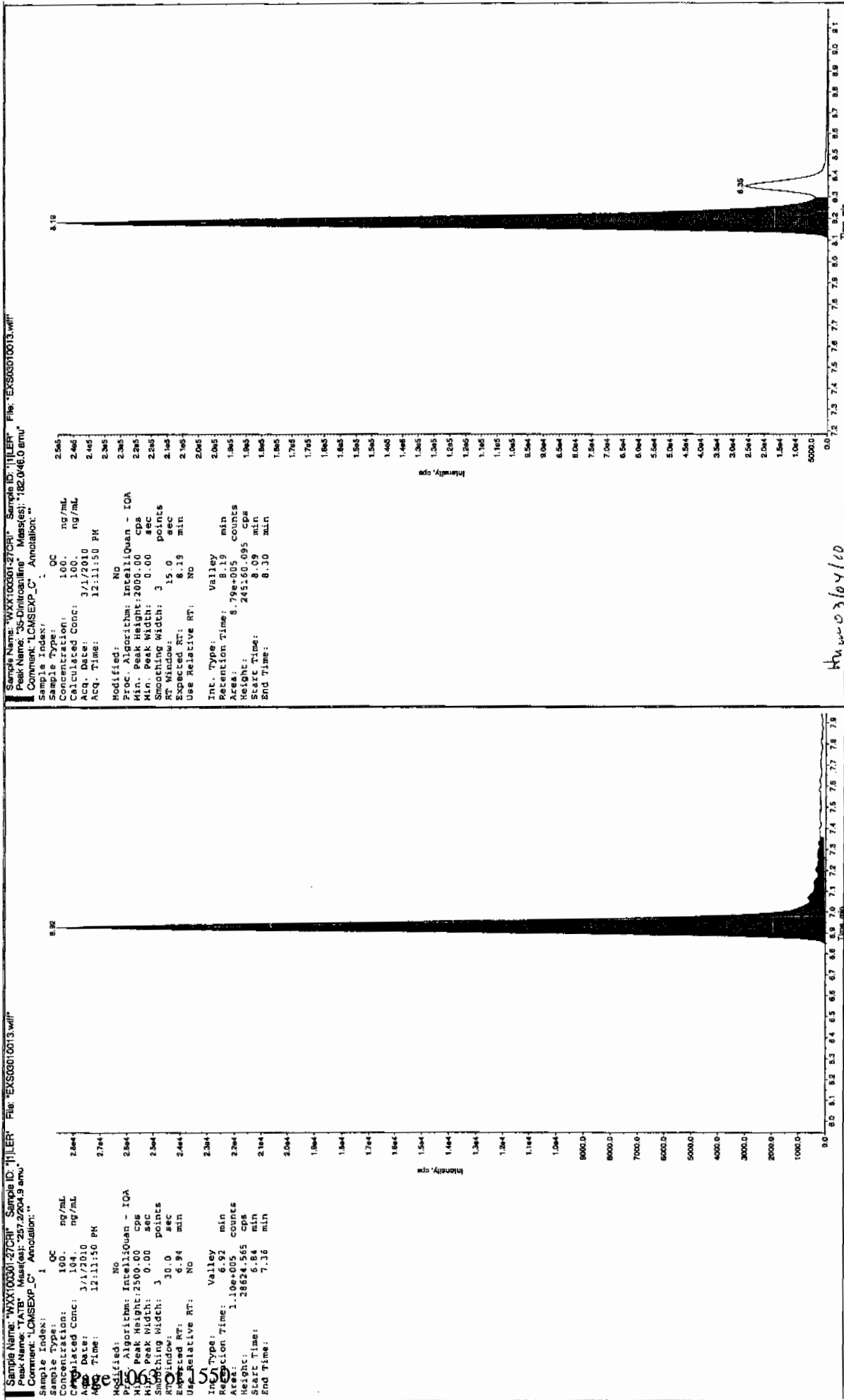
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

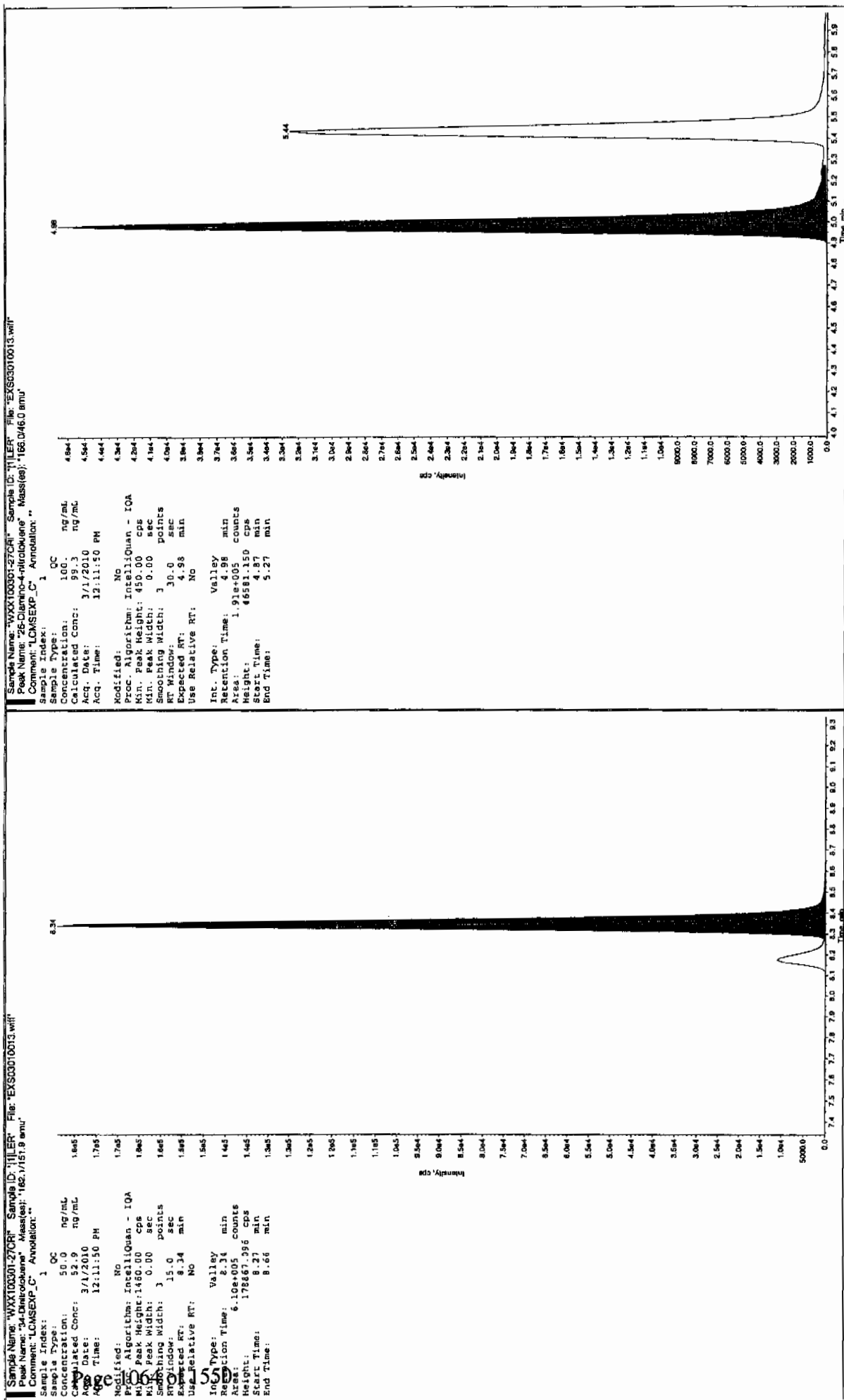
Other Target Analytes 70-130%

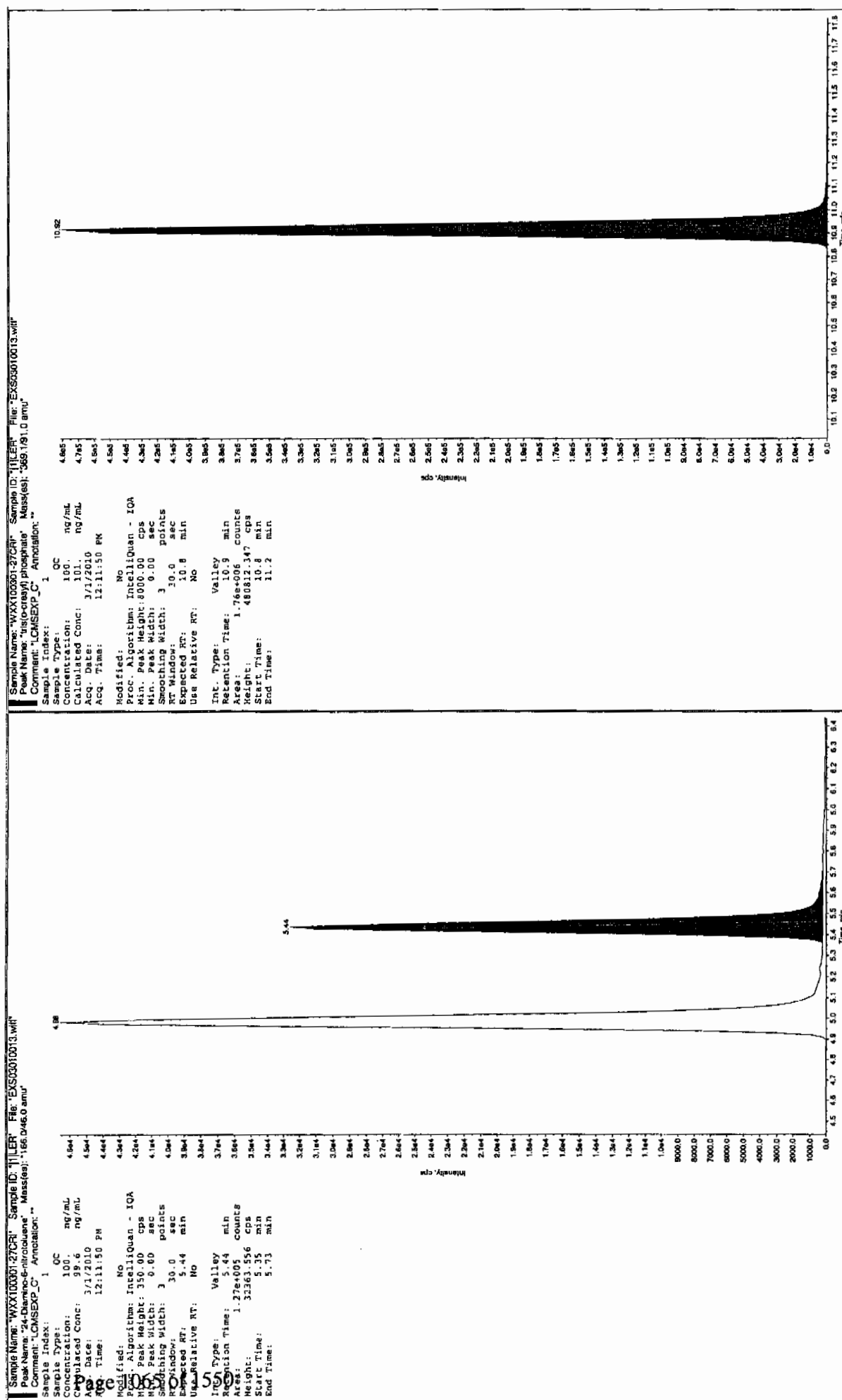
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Run 3/3/10







7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010024.wiff

Analysis Date: 01-MAR-10 15:04

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	495	99	
2,6-Diamino-4-nitrotoluene	500	499	100	
3,4-Dinitrotoluene	250	229	92	
3,5-Dinitroaniline	500	513	103	
TATB	500	498	100	
tris(o-cresyl) phosphate	500	500	100	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

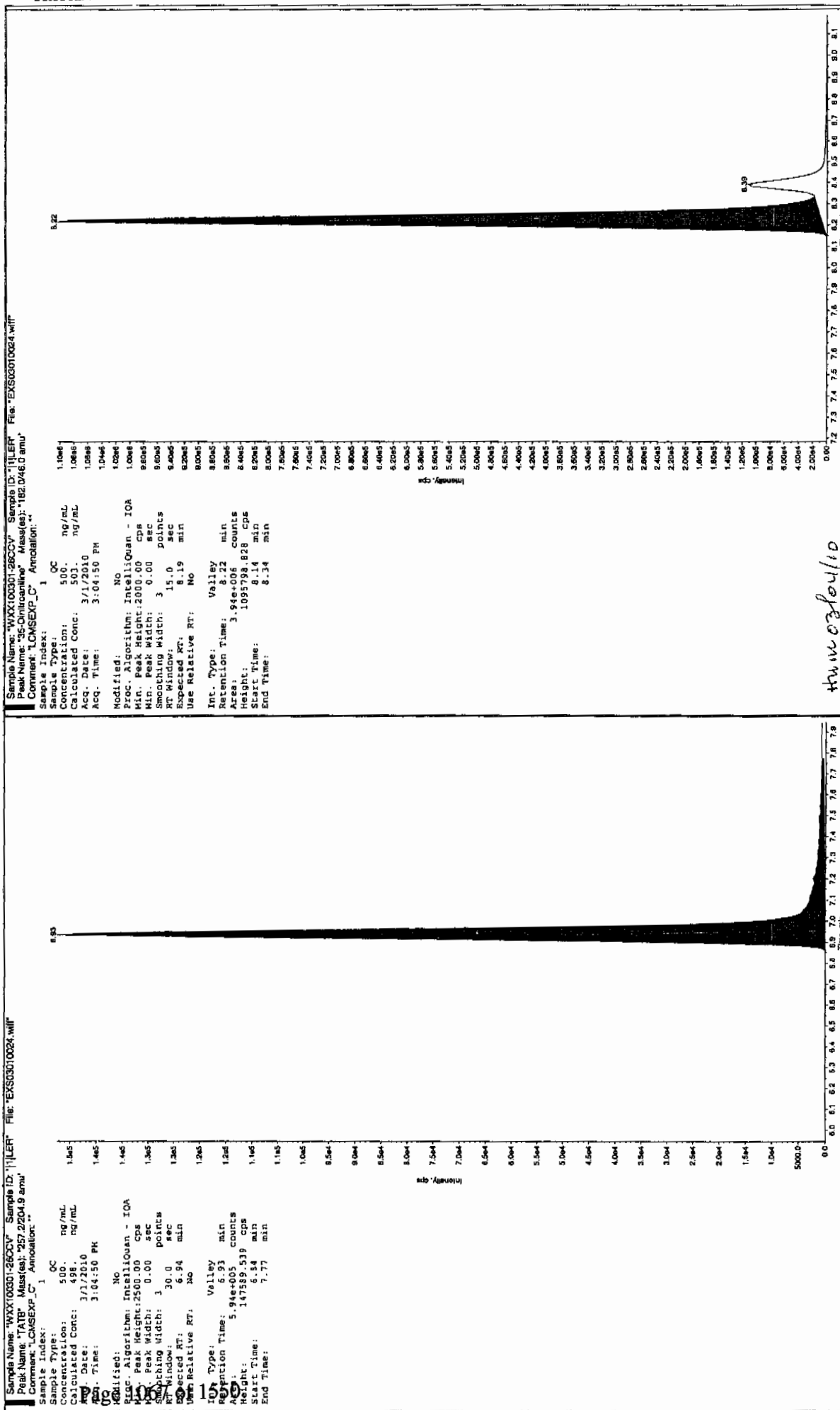
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

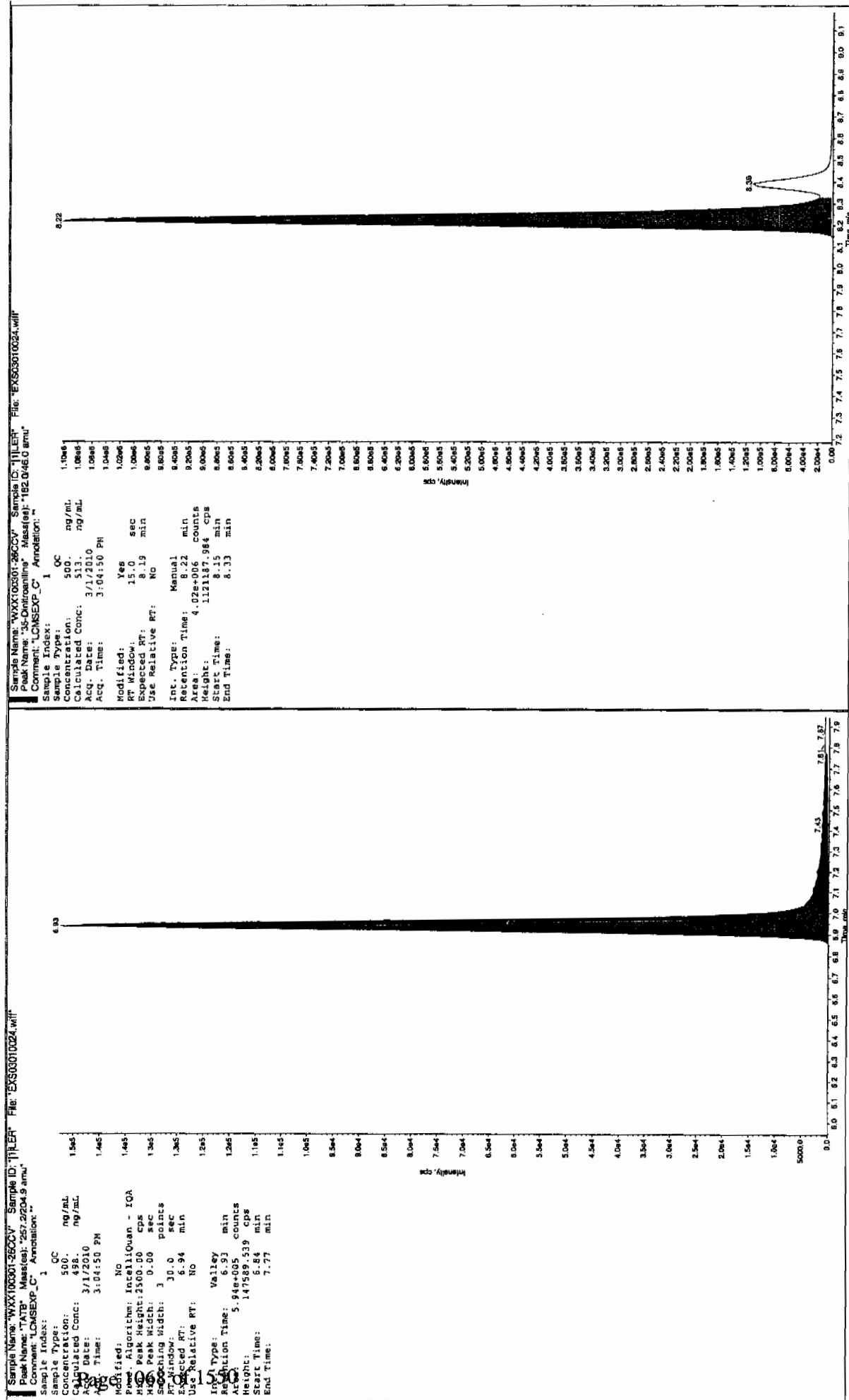
* Value outside of Recovery Limits

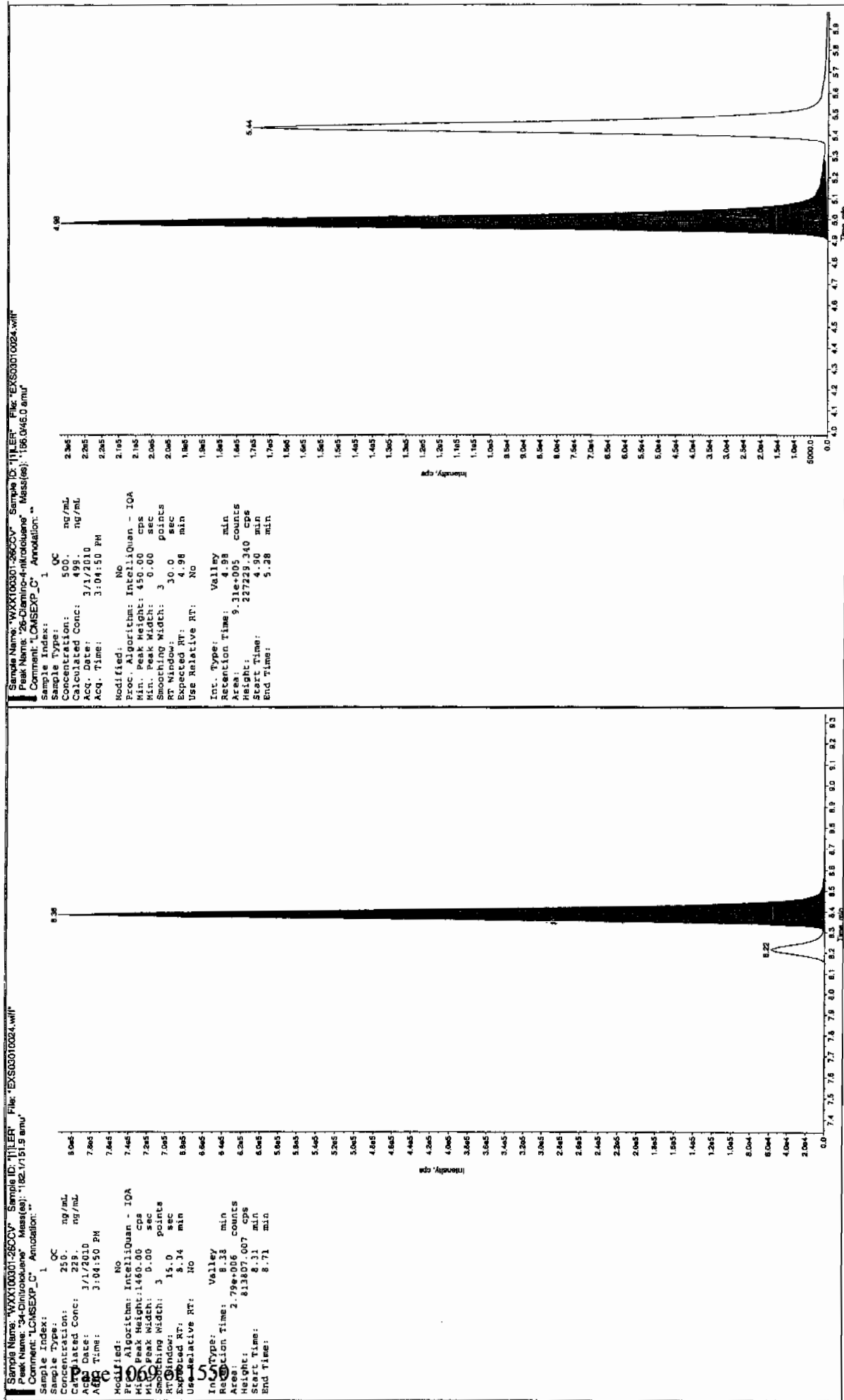
Before Jan 3/3/10

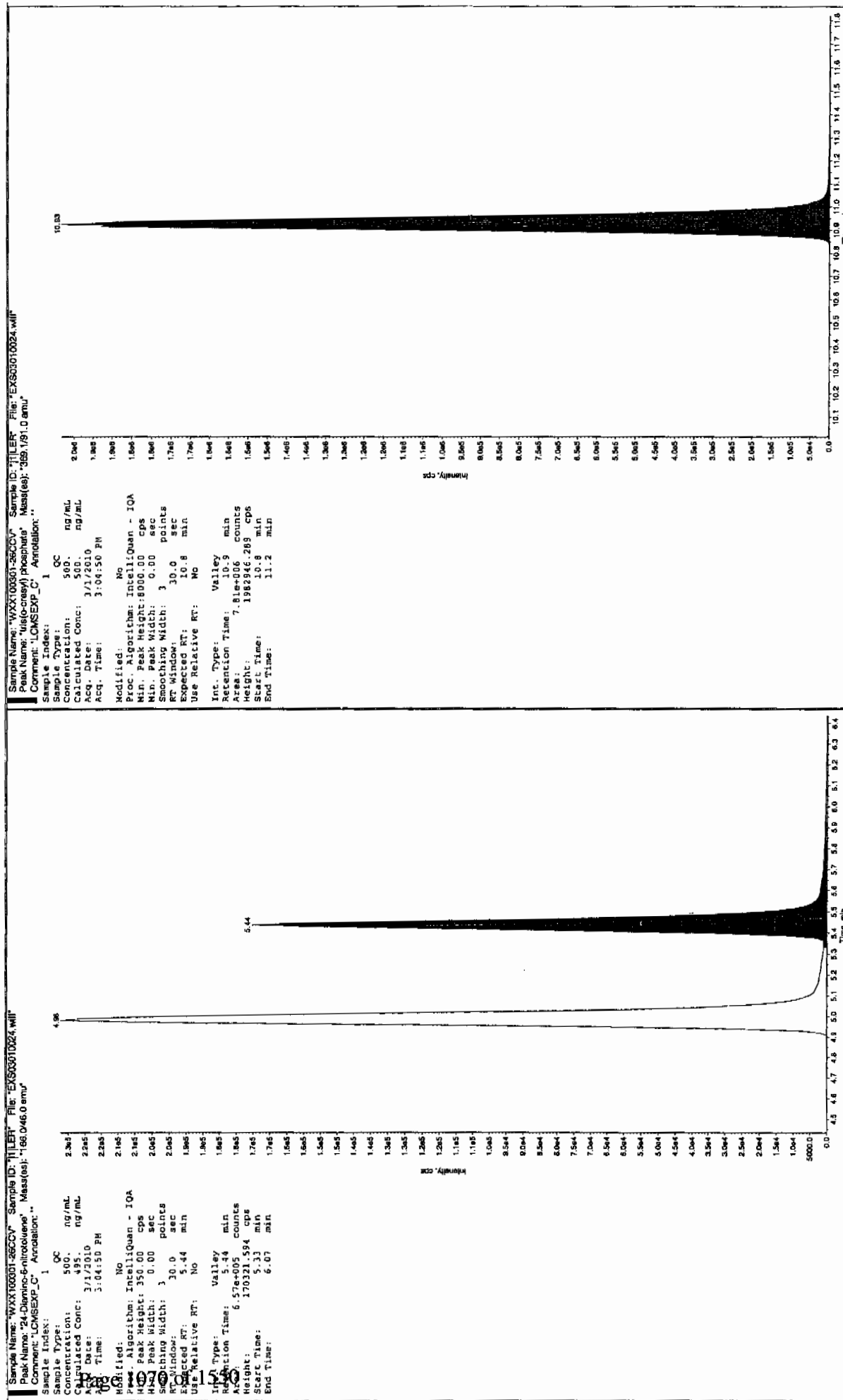


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

After Jan 31/10







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010026.wiff

Analysis Date: 01-MAR-10 15:36

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	99.7	100	
2,6-Diamino-4-nitrotoluene	100	101	101	
3,4-Dinitrotoluene	50	52.7	105	
3,5-Dinitroaniline	100	96.2	96	
TATB	100	102	102	
tris(o-cresyl) phosphate	100	100	100	

Recovery Limits:

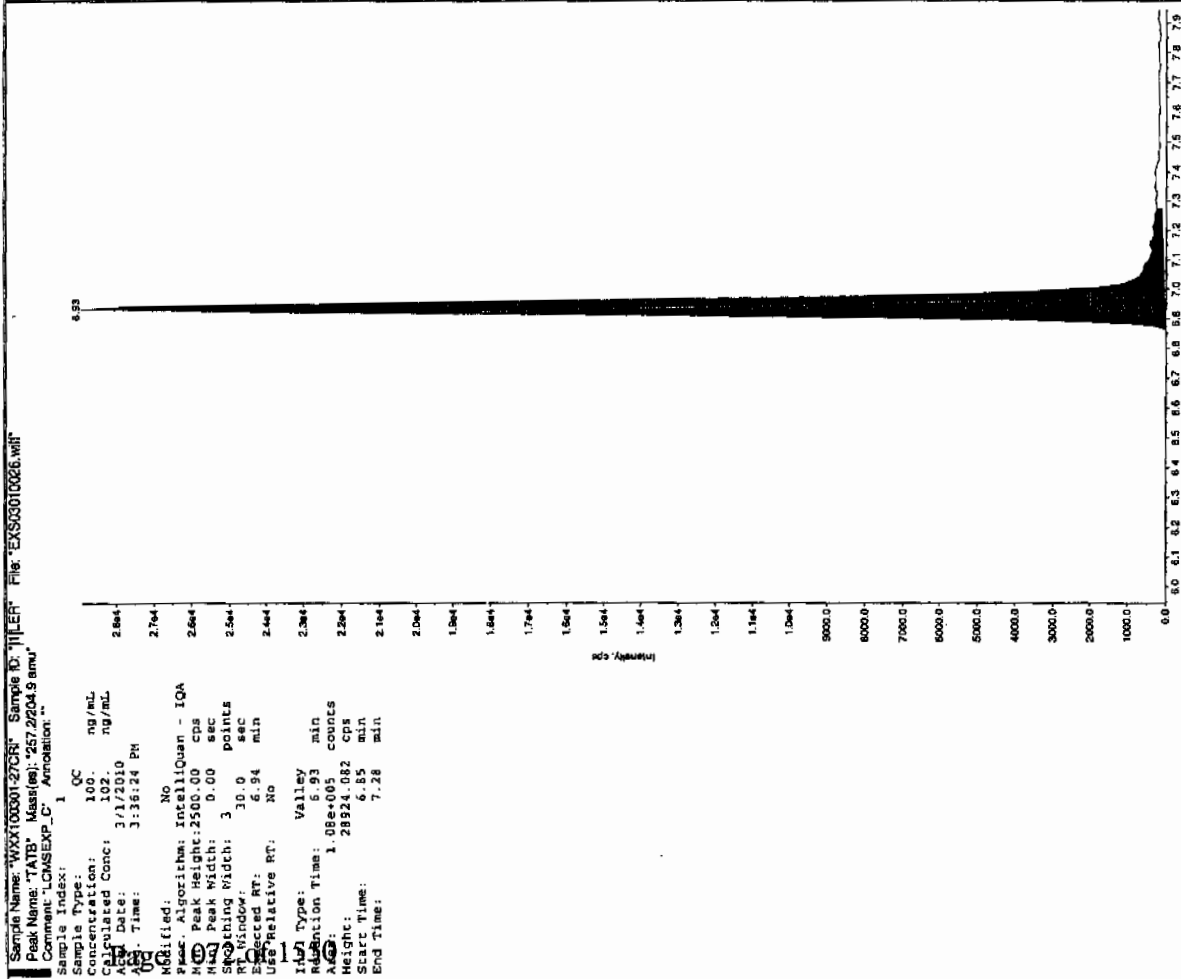
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

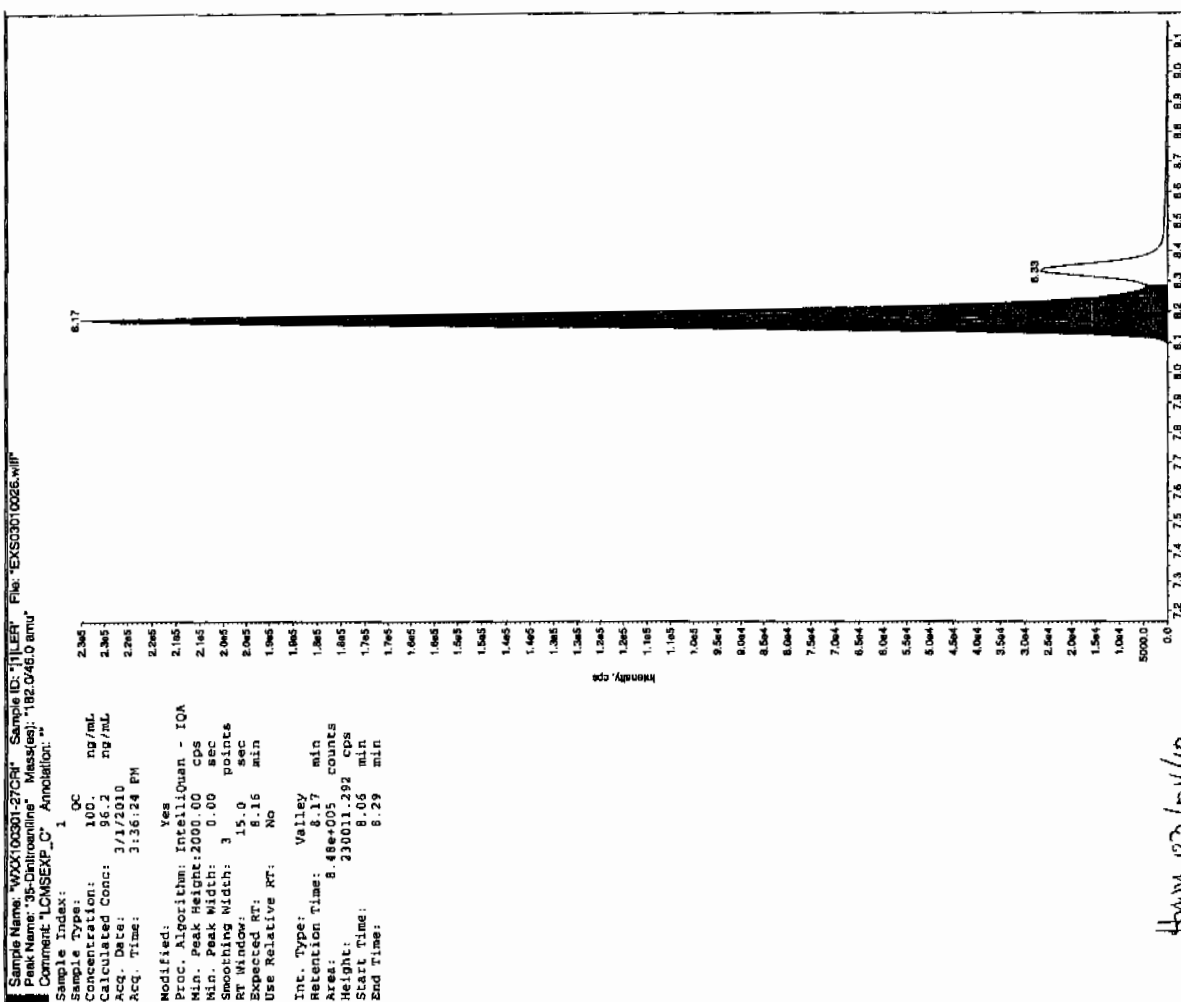
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

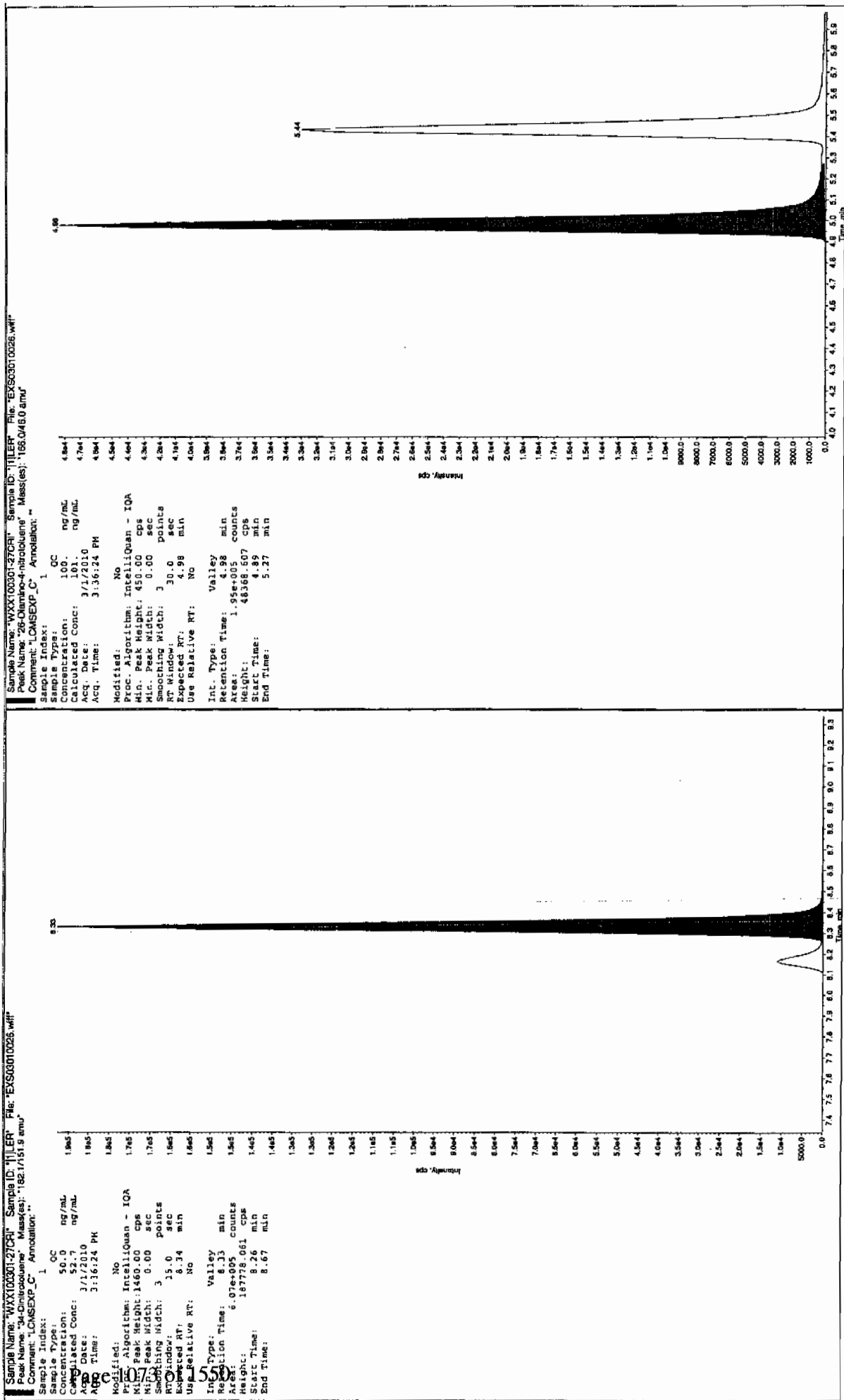
Run 3/3/10

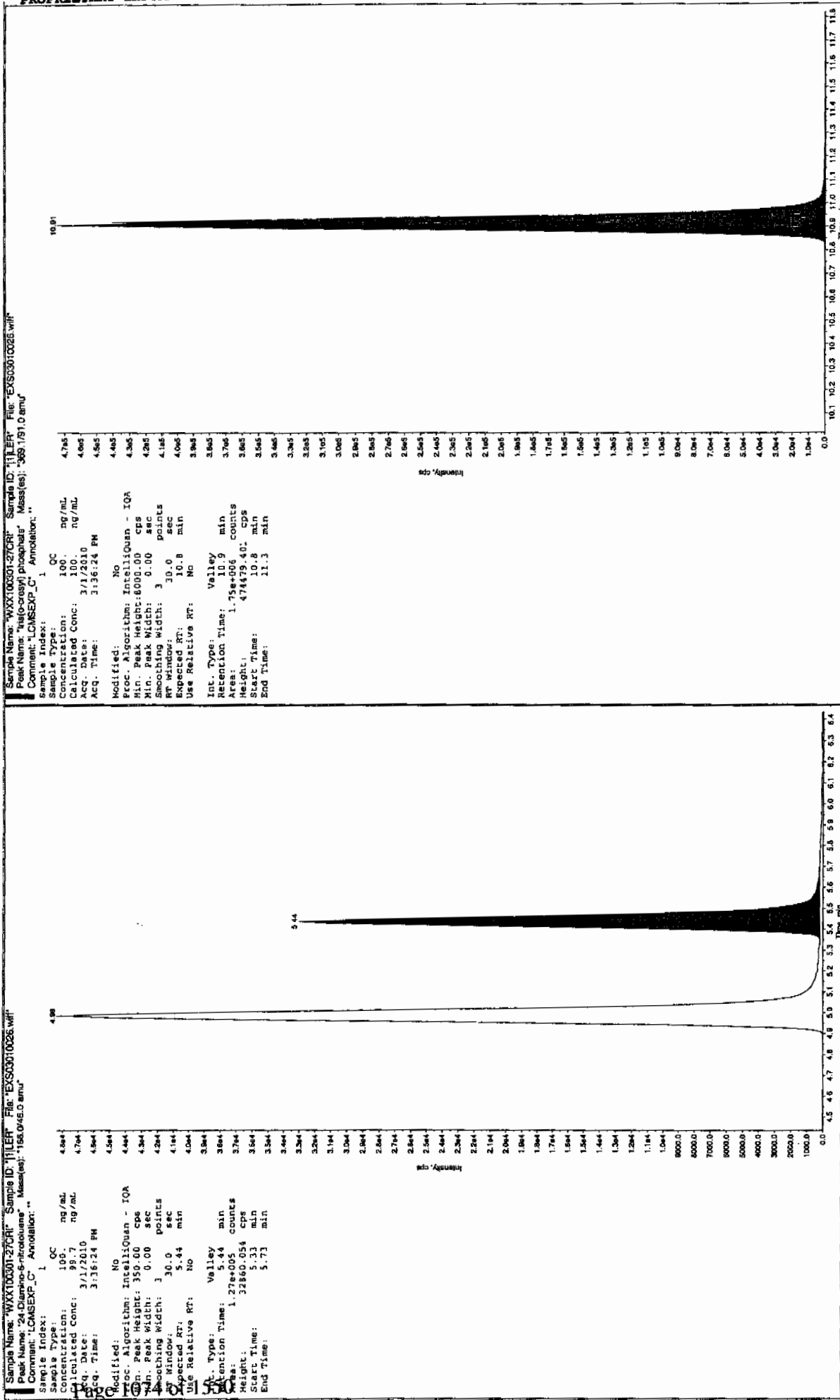


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



444403164/10





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010037.wiff

Analysis Date: 01-MAR-10 18:29

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	503	101	
2,6-Diamino-4-nitrotoluene	500	525	105	
3,4-Dinitrotoluene	250	235	94	
3,5-Dinitroaniline	500	501	100	
TATB	500	493	99	
tris(o-cresyl) phosphate	500	484	97	

Recovery Limits:

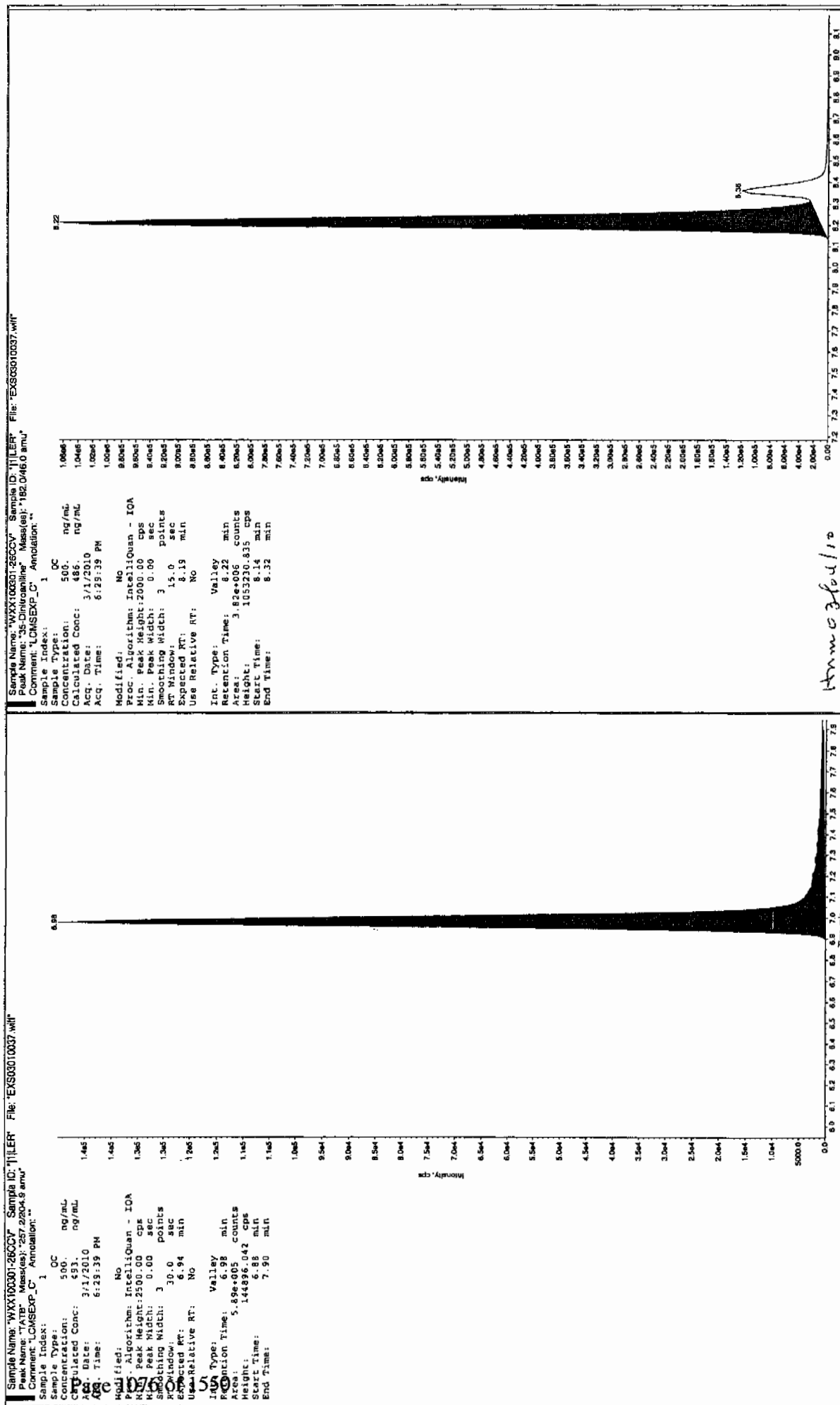
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

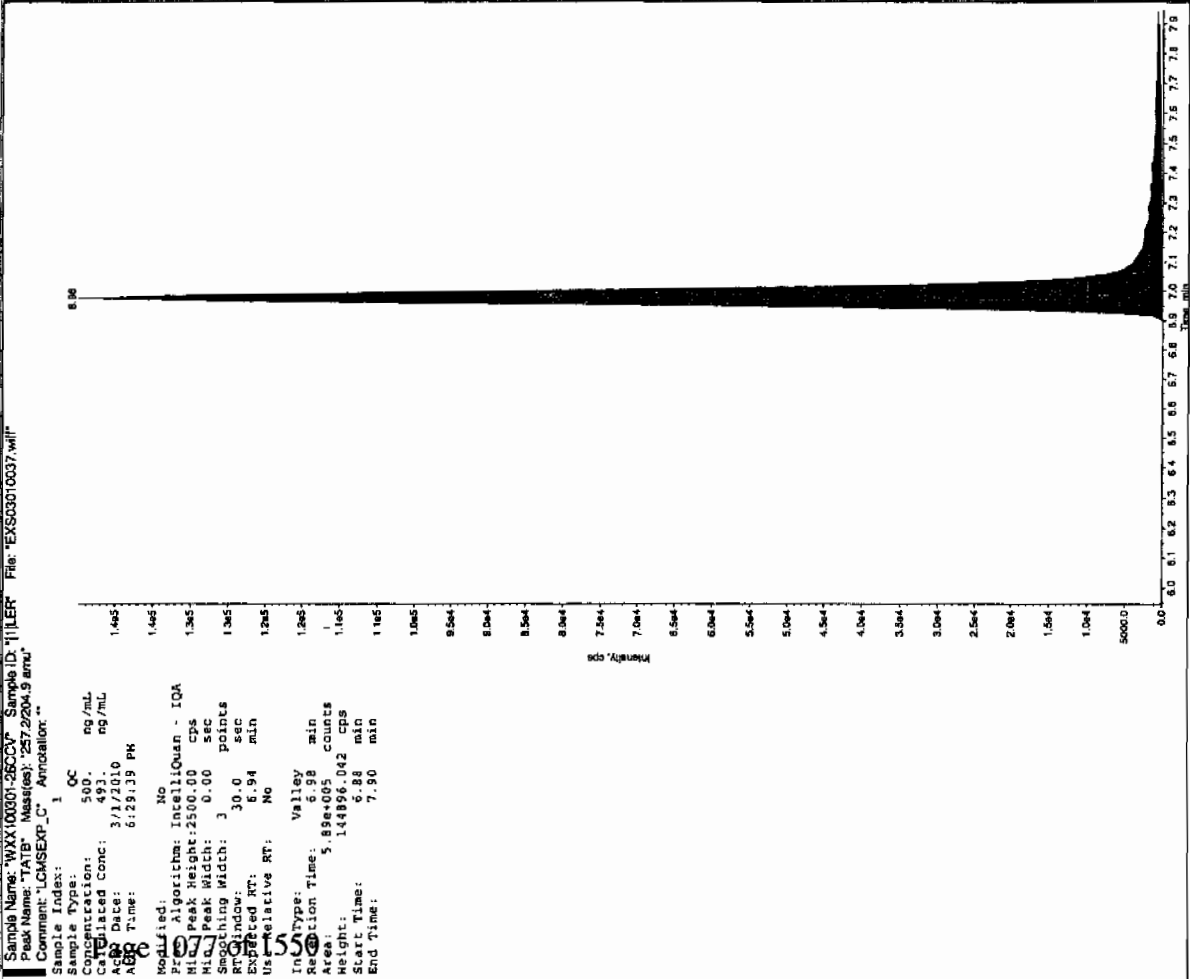
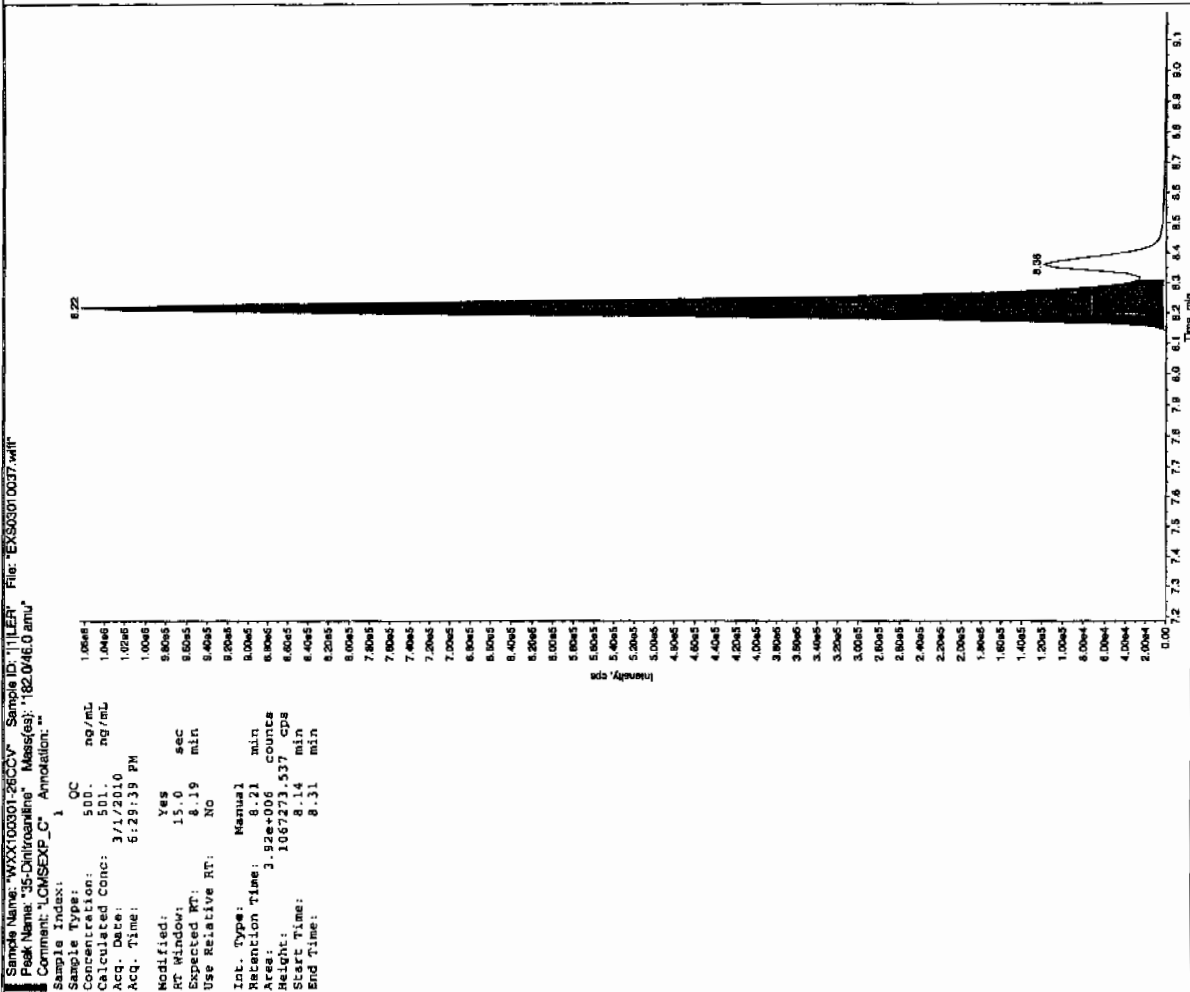
* Value outside of Recovery Limits

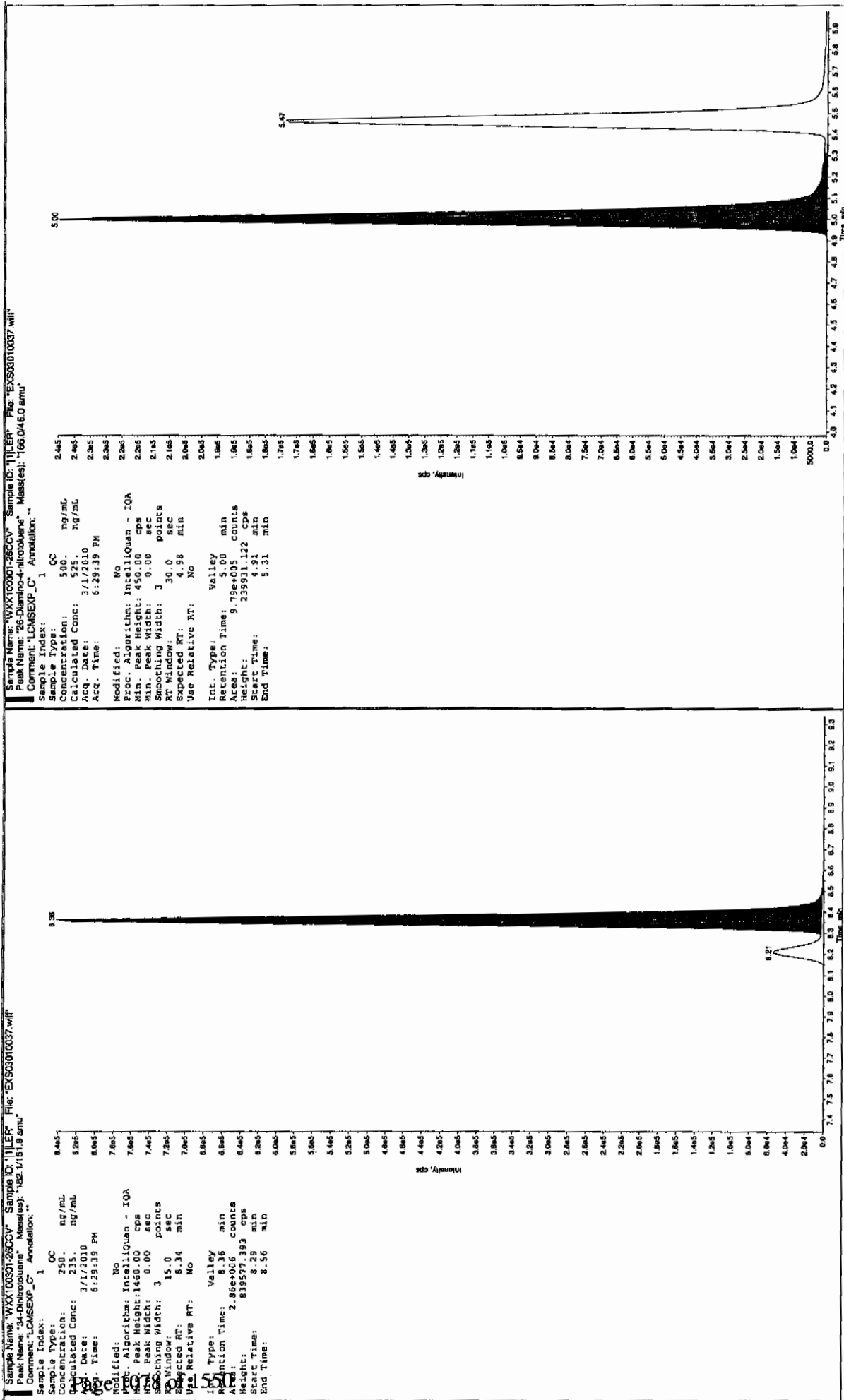
Before Jan 31/10

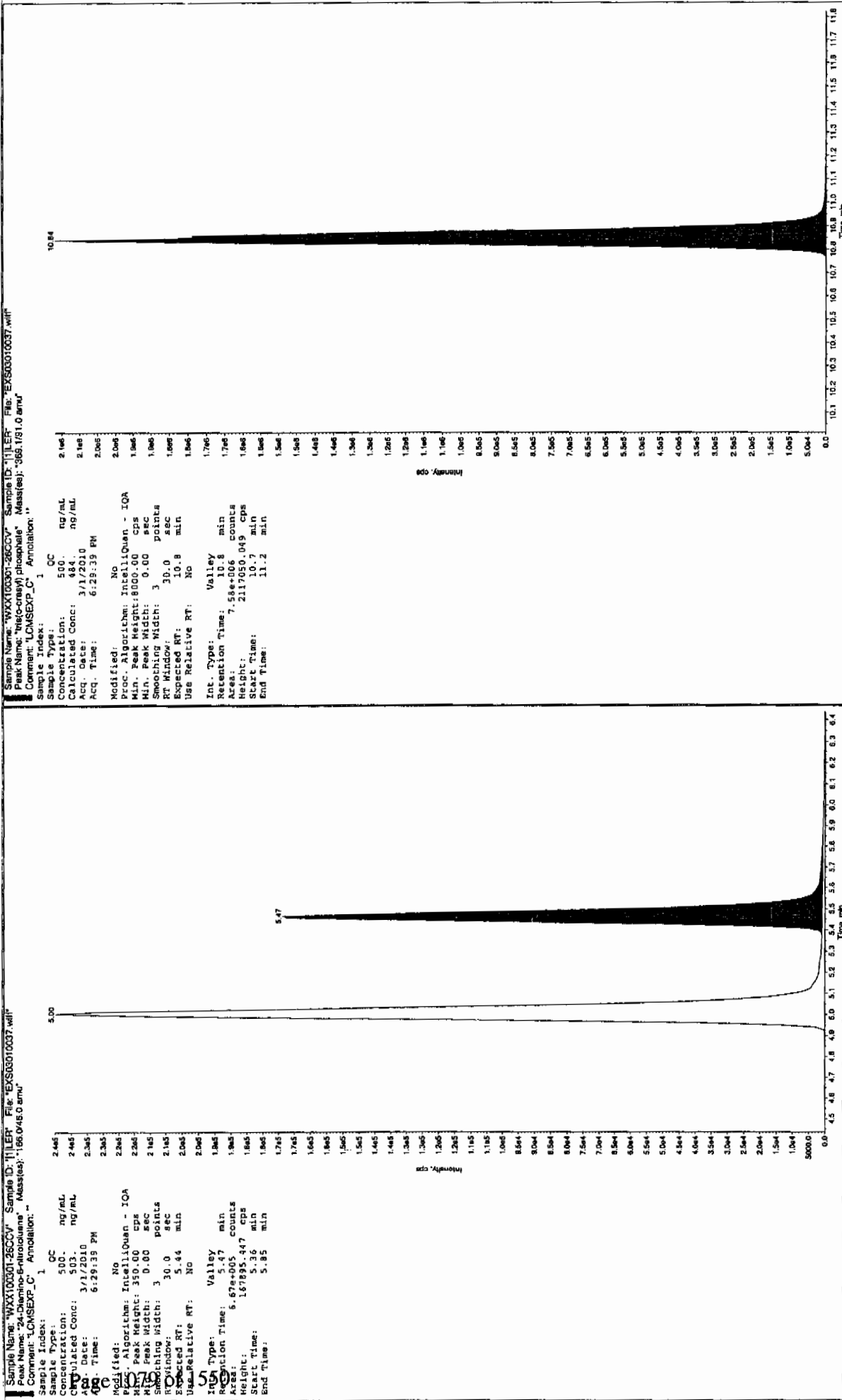


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCM SMS#4

after Run 3/3/10







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010039.wiff

Analysis Date: 01-MAR-10 19:01

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,6-Diamino-4-nitrotoluene	100	103	103	
3,4-Dinitrotoluene	50	51.7	103	
3,5-Dinitroaniline	100	93.9	94	
TATB	100	103	103	
tris(o-cresyl) phosphate	100	101	101	
2,4-Diamino-6-nitrotoluene	100	109	109	

Recovery Limits:

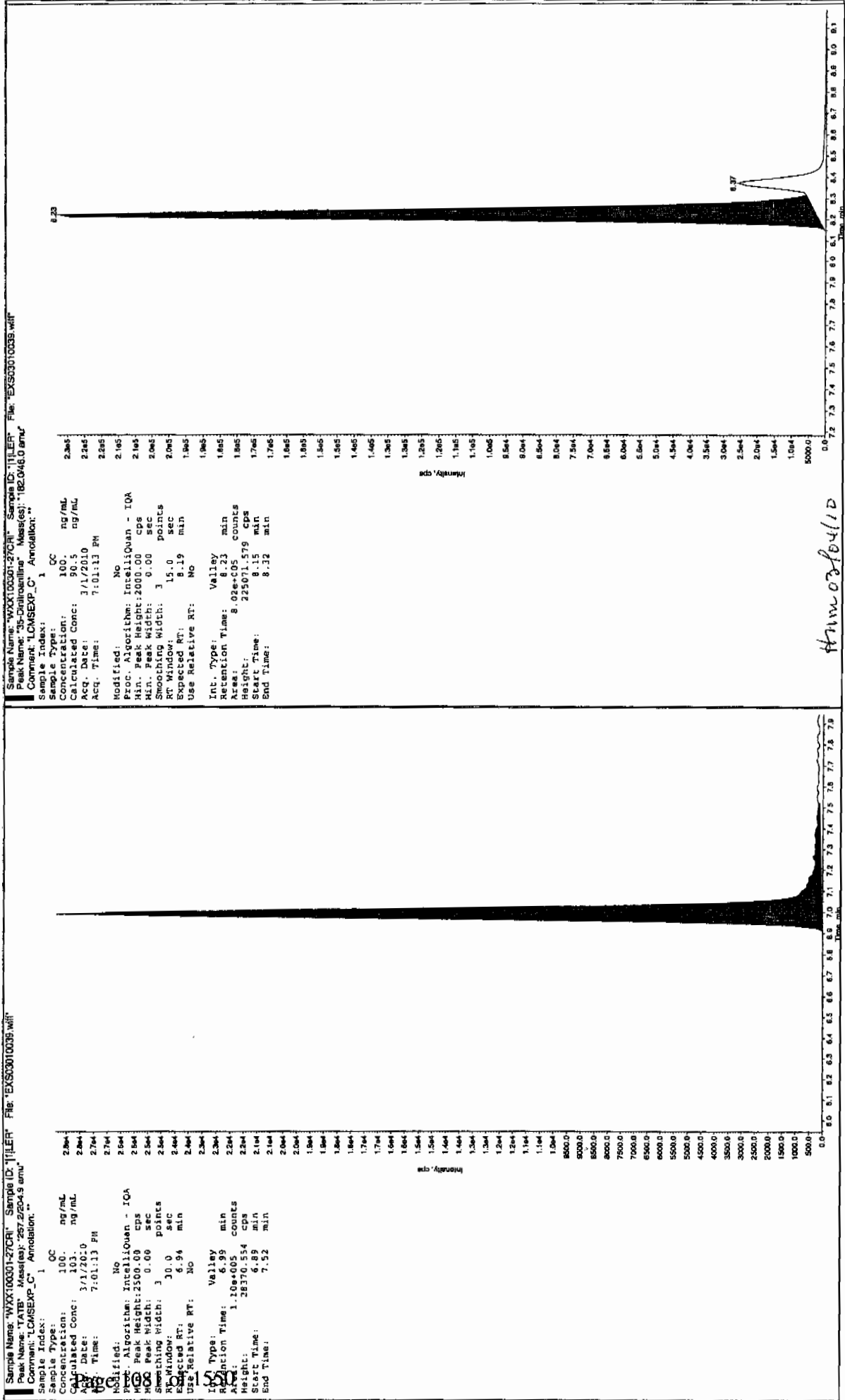
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

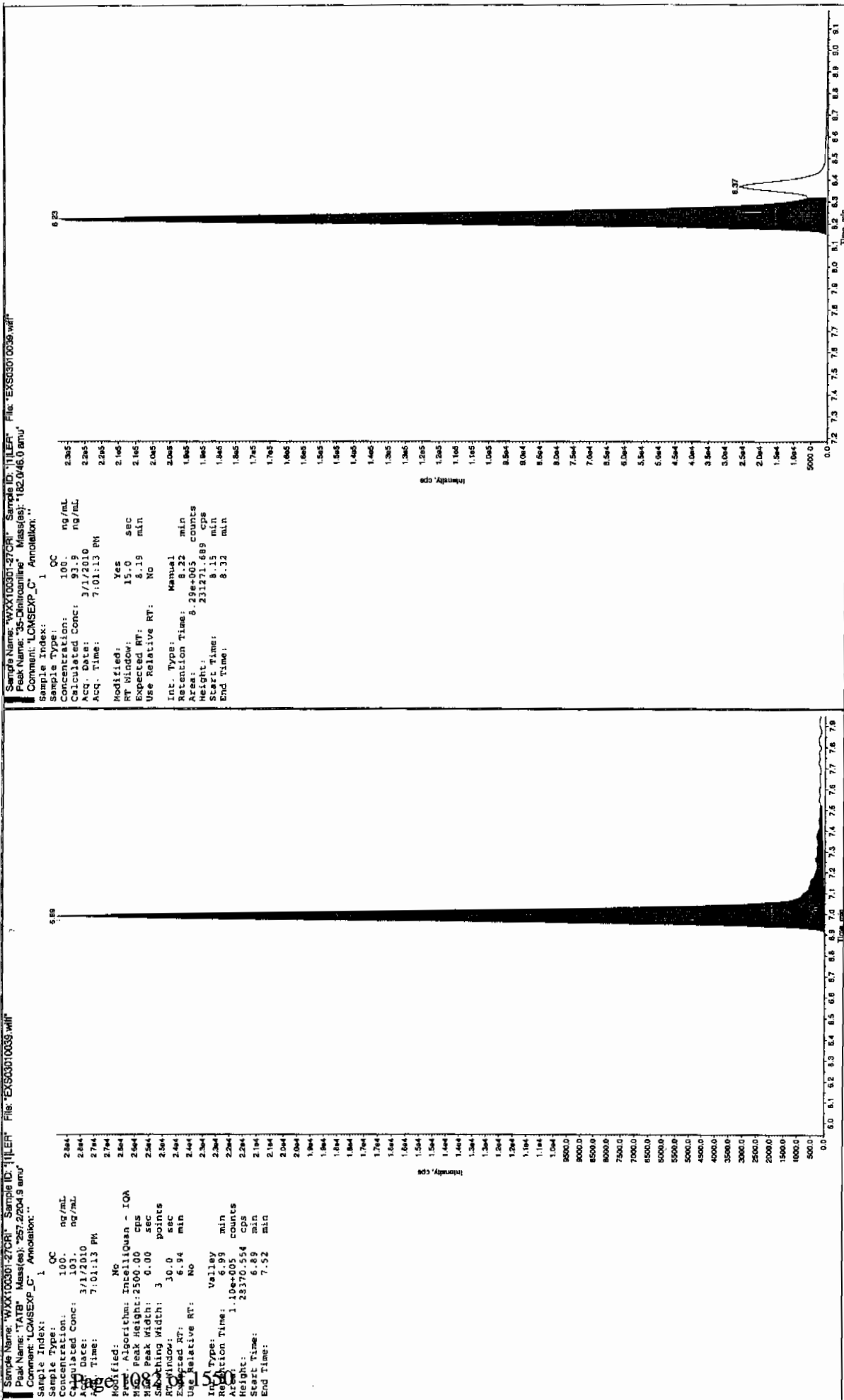
* Value outside of Recovery Limits

Before Jan 31/10



4/10/08/04/10

after Jan 9/3/10



Sample Name: 'WXX100301-2701' Sample ID: '111111' File: 'EX503010039.will'

Peak Name: '1ATB' Mass(es): '257.2/204.9 amu'

Comment: 'LCMSEXP_C' Annotation: ''

Sample Index: 1

Sample Type: QC

Concentration: 100. ng/mL

Calculated Conc: 93.9 ng/mL

Acq. Date: 3/1/2010

Acq. Time: 7:01:13 PM

Modified: No

RT Window: 15.0 sec

Expected RT: 8.19 min

Use Relative RT: No

Int. Type: Manual

Retention Time: 8.22 min

Area: 8.29e+005 counts

Height: 23121.189 cps

Start Time: 8.15 min

End Time: 8.32 min

Free Algorithm: IntelliQuan - IOA

Peak Height: 2500.00 cps

Peak Width: 0.00 sec

Sampling Width: 3 points

RT Window: 30.0 sec

Expected RT: 6.94 min

Use Relative RT: No

Int. Type: Valley

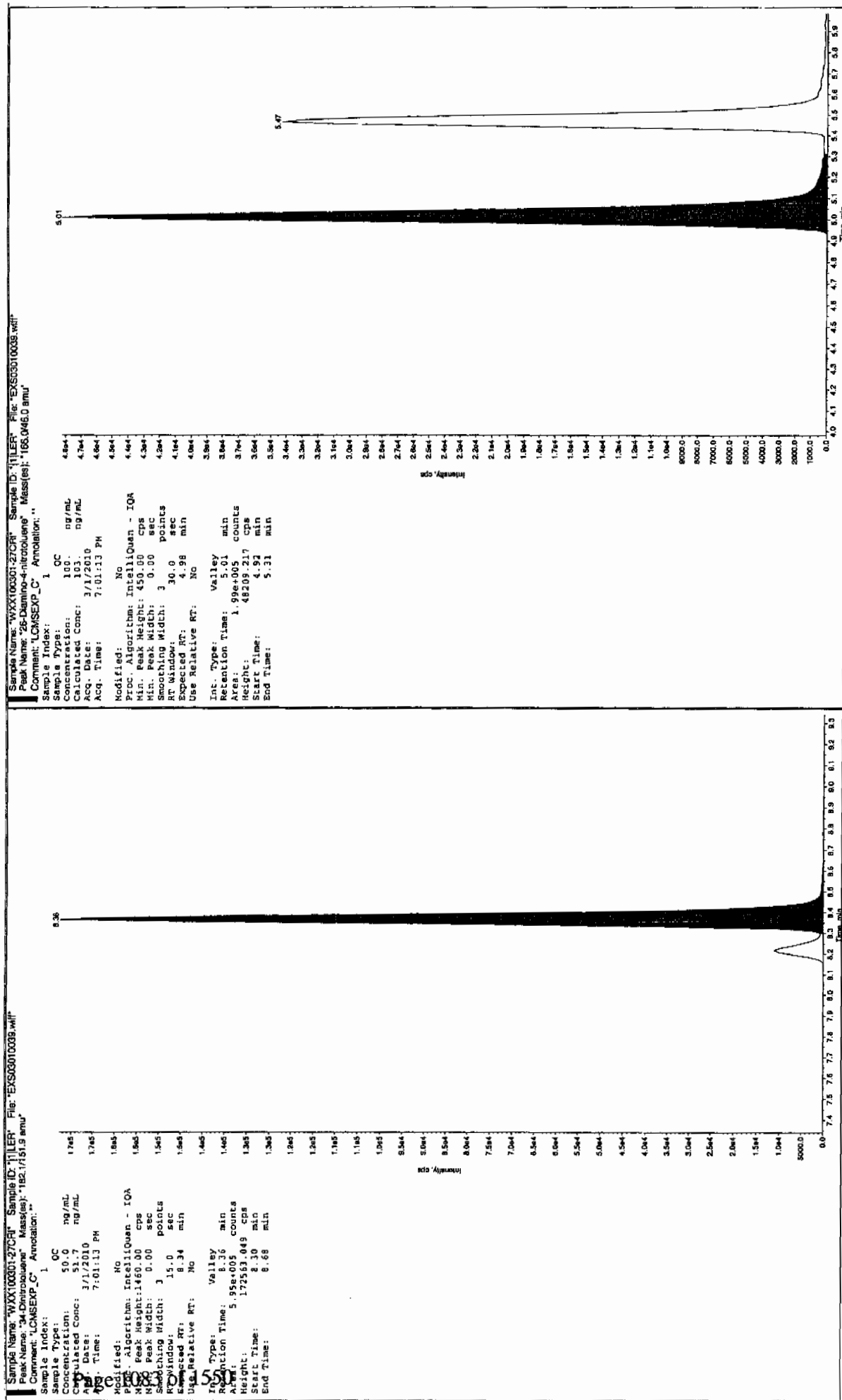
Retention Time: 6.99 min

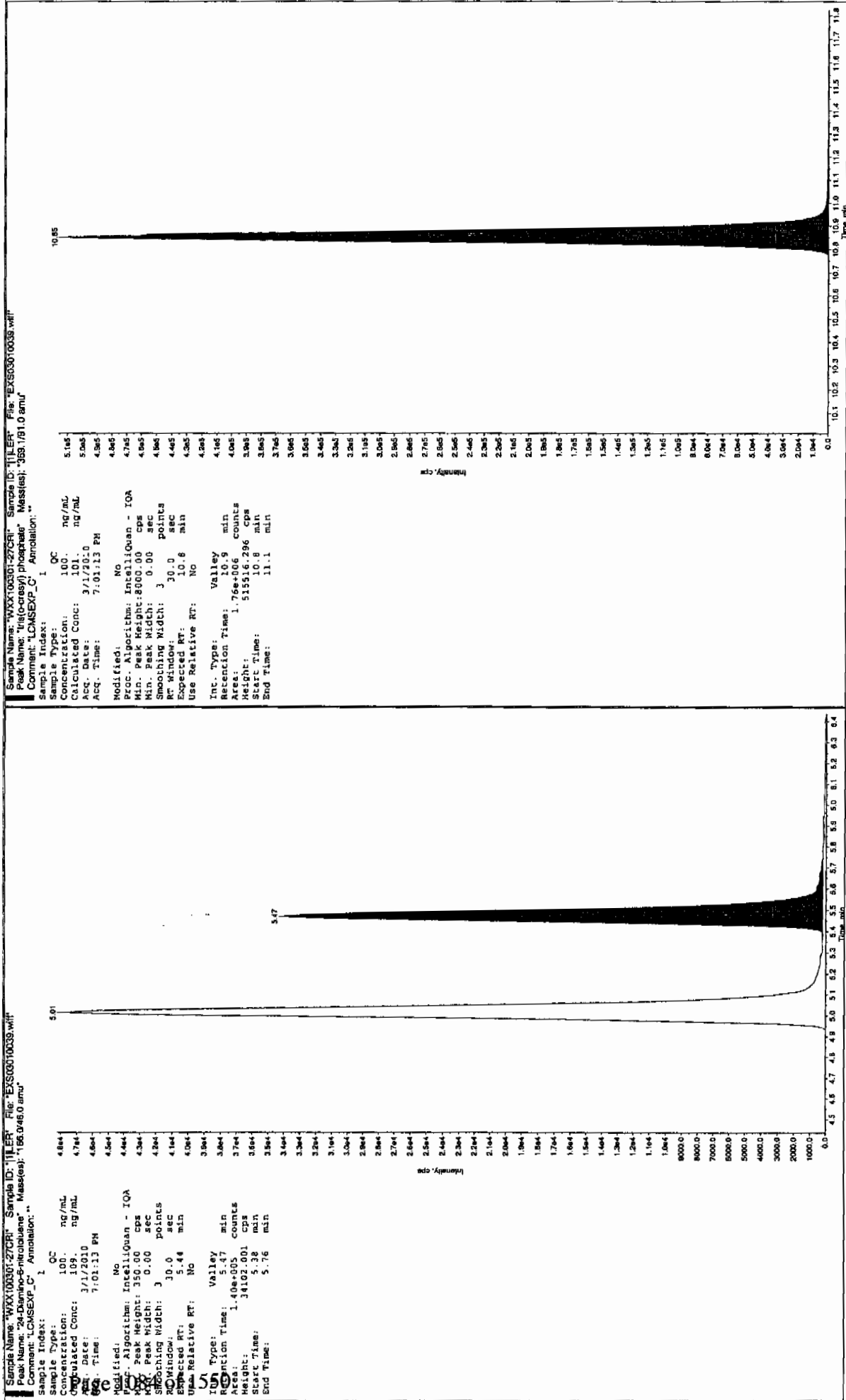
Area: 1.10e+005 counts

Height: 28370.554 cps

Start Time: 6.89 min

End Time: 7.52 min





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010050.wiff

Analysis Date: 01-MAR-10 21:54

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	513	103	
2,6-Diamino-4-nitrotoluene	500	527	105	
3,4-Dinitrotoluene	250	237	95	
3,5-Dinitroaniline	500	506	101	
TATB	500	501	100	
tris(o-cresyl) phosphate	500	499	100	

Recovery Limits:

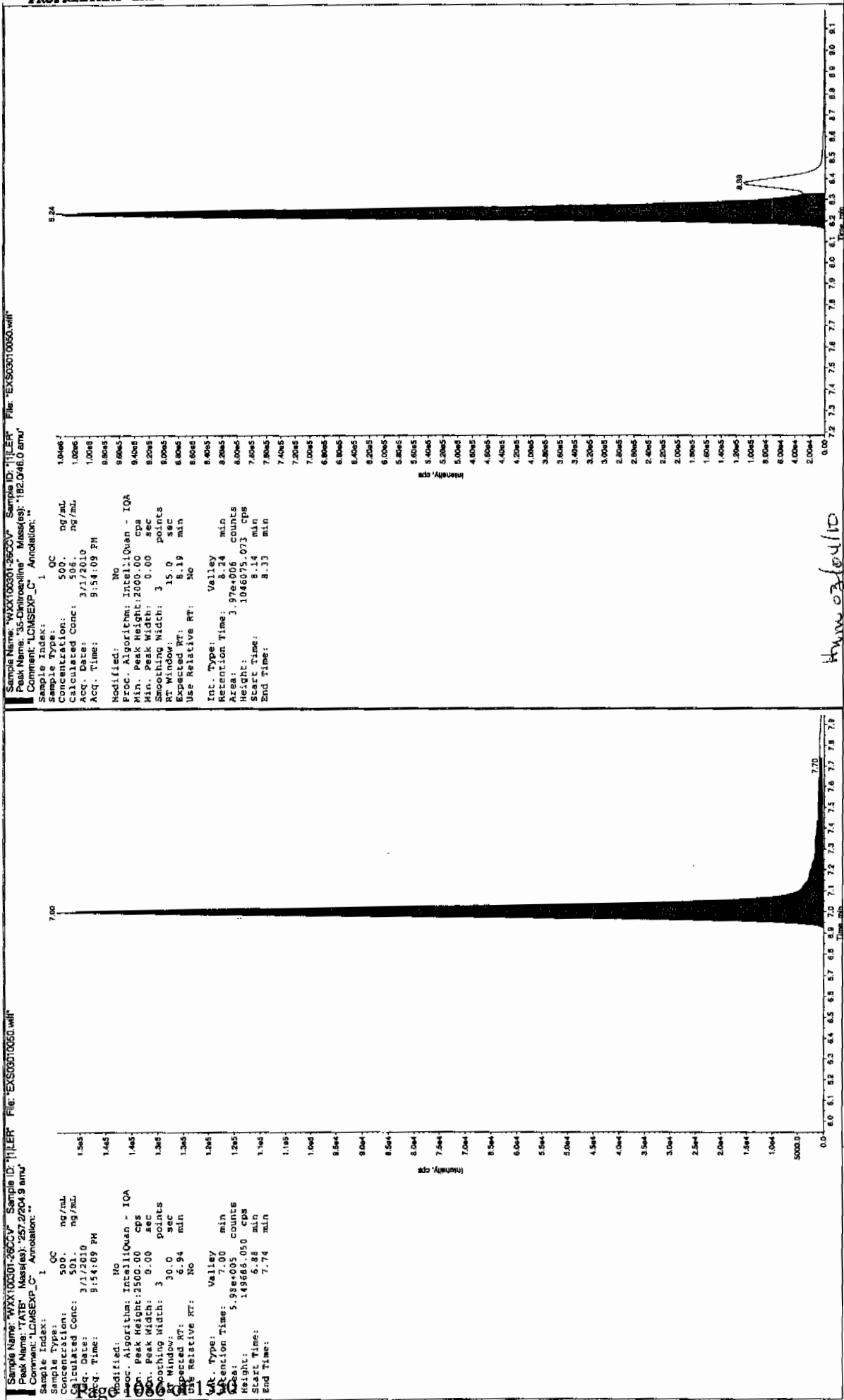
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

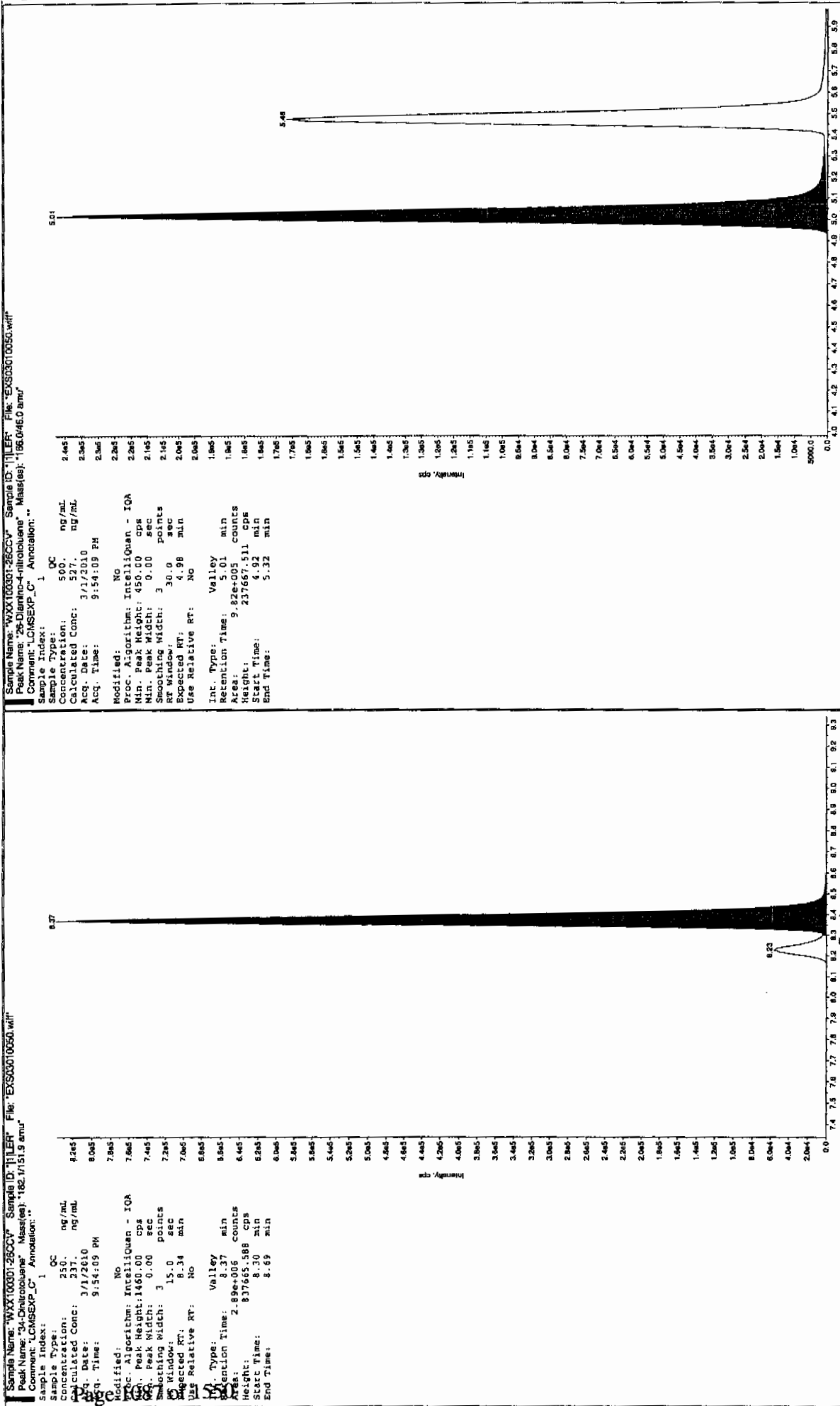
Column used to flag Recovery outside of Limits

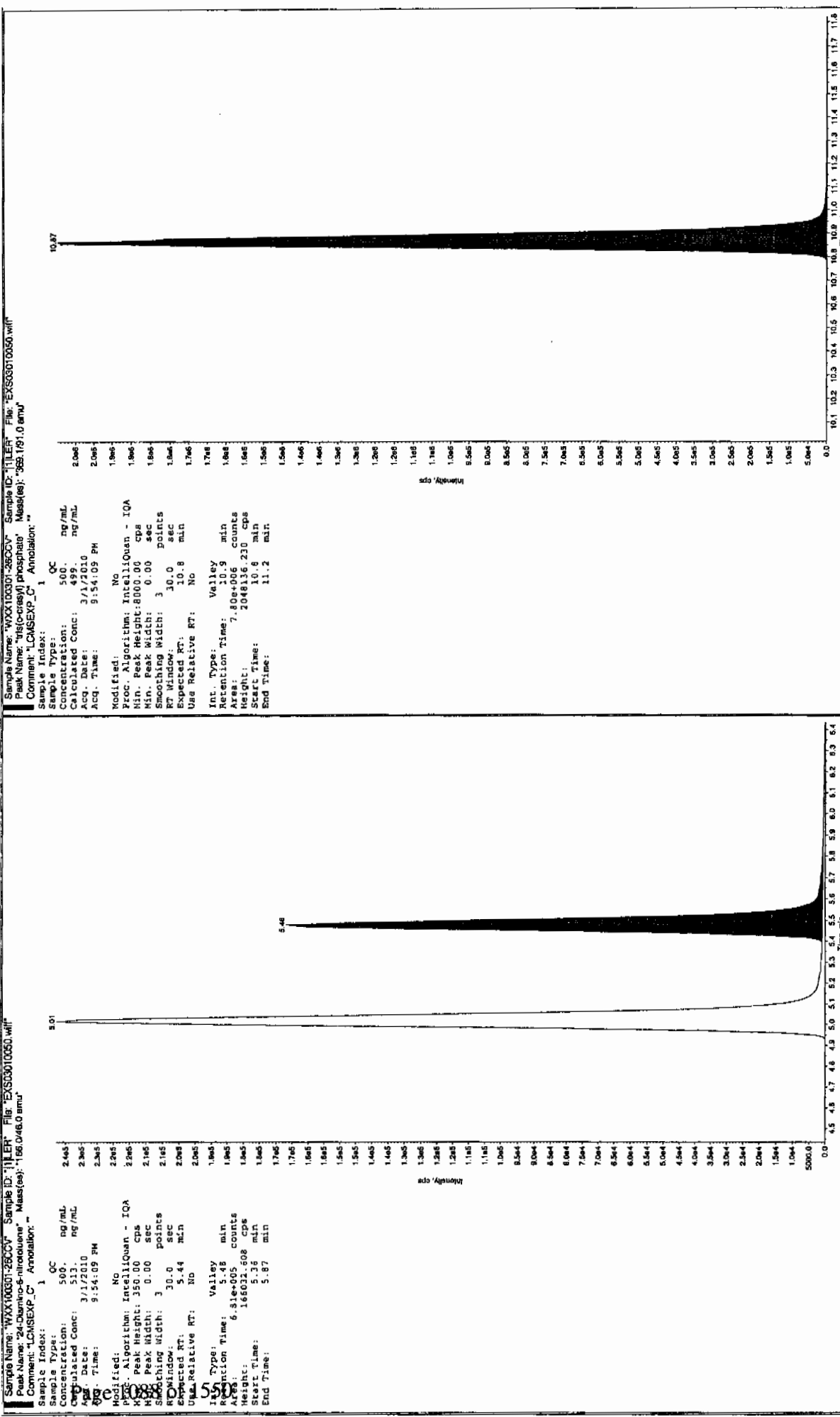
* Value outside of Recovery Limits

See 3/3/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





Sample Name: WXX100301-280CV Sample ID: 111ER File: EXS03010050.wif
 Peak Name: tris(o-cresyl) phosphate Mass(es): 399.191.0 amu
 Comment: "LCMSEXP_C" Annotation: "
 Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 499. ng/mL
 Acq. Date: 3/17/2010
 Acq. Time: 9:54:09 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3.00 points
 RT Window: 10.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 7.80e+005 counts
 Height: 2048136.230 cps
 Start Time: 10.8 min
 End Time: 11.2 min

Sample Name: WXX100301-280CV Sample ID: 111ER File: EXS03010050.wif
 Peak Name: 24-Dinitro-6-nitrotoluene Mass(es): 166.046.0 amu
 Comment: "LCMSEXP_C" Annotation: "
 Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 513. ng/mL
 Acq. Date: 3/17/2010
 Acq. Time: 9:54:09 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3.00 points
 RT Window: 30.0 sec
 Expected RT: 5.44 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.48 min
 Area: 6.81e+005 counts
 Height: 165032.608 cps
 Start Time: 5.38 min
 End Time: 5.87 min

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010052.wiff

Analysis Date: 01-MAR-10 22:25

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	107	107	
2,6-Diamino-4-nitrotoluene	100	108	108	
3,4-Dinitrotoluene	50	53	106	
3,5-Dinitroaniline	100	97.3	97	
TATB	100	104	104	
tris(o-cresyl) phosphate	100	103	103	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

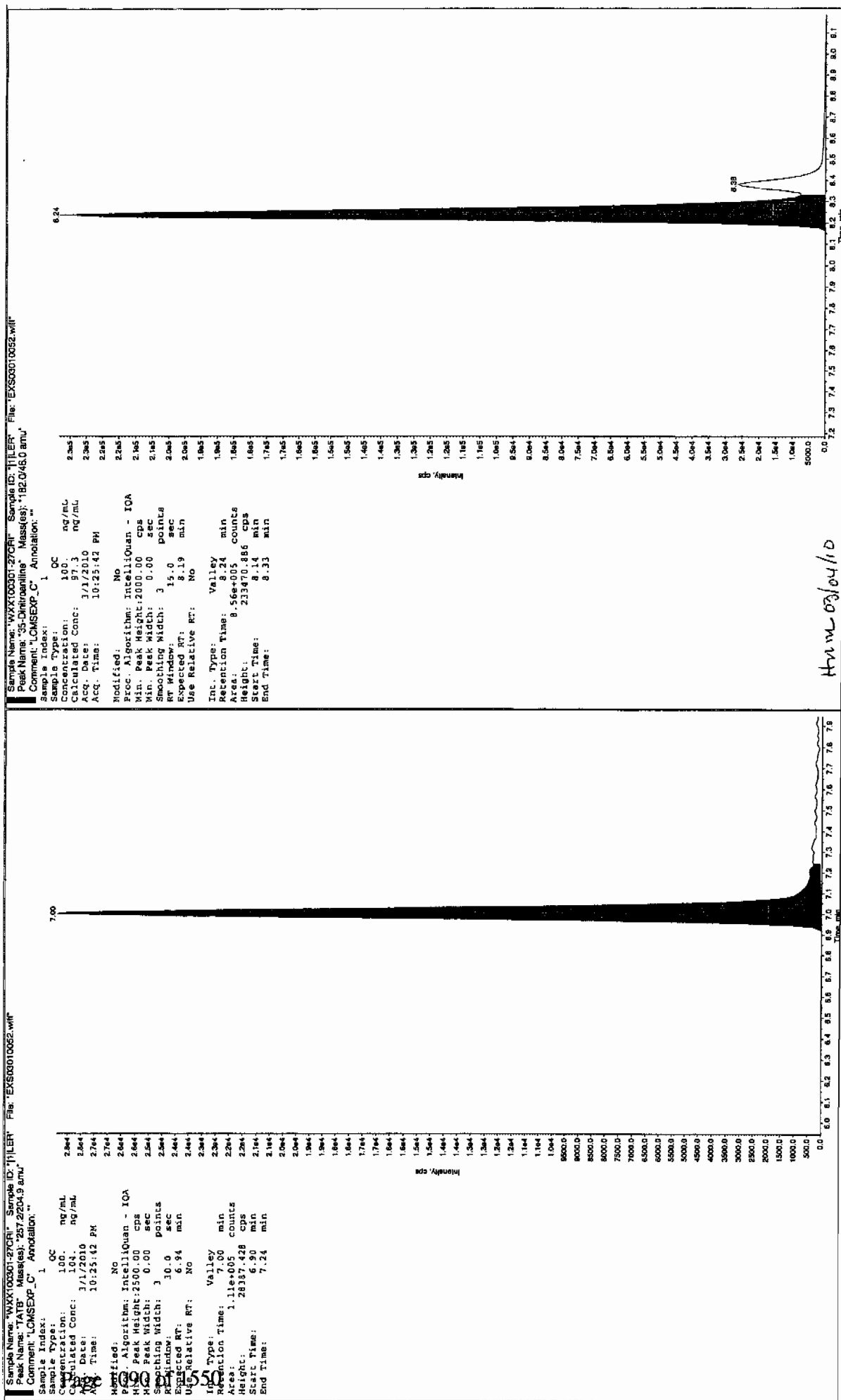
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

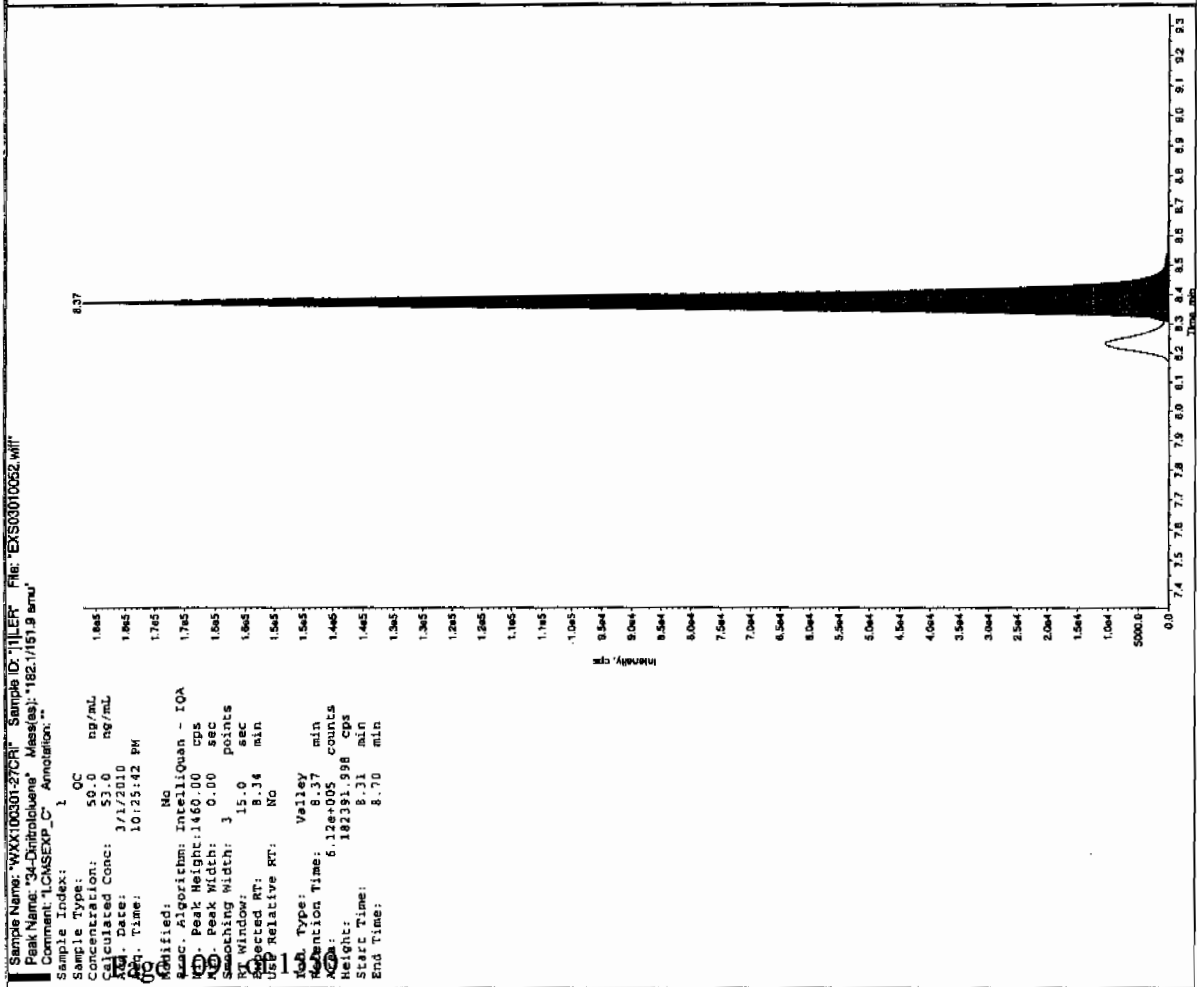
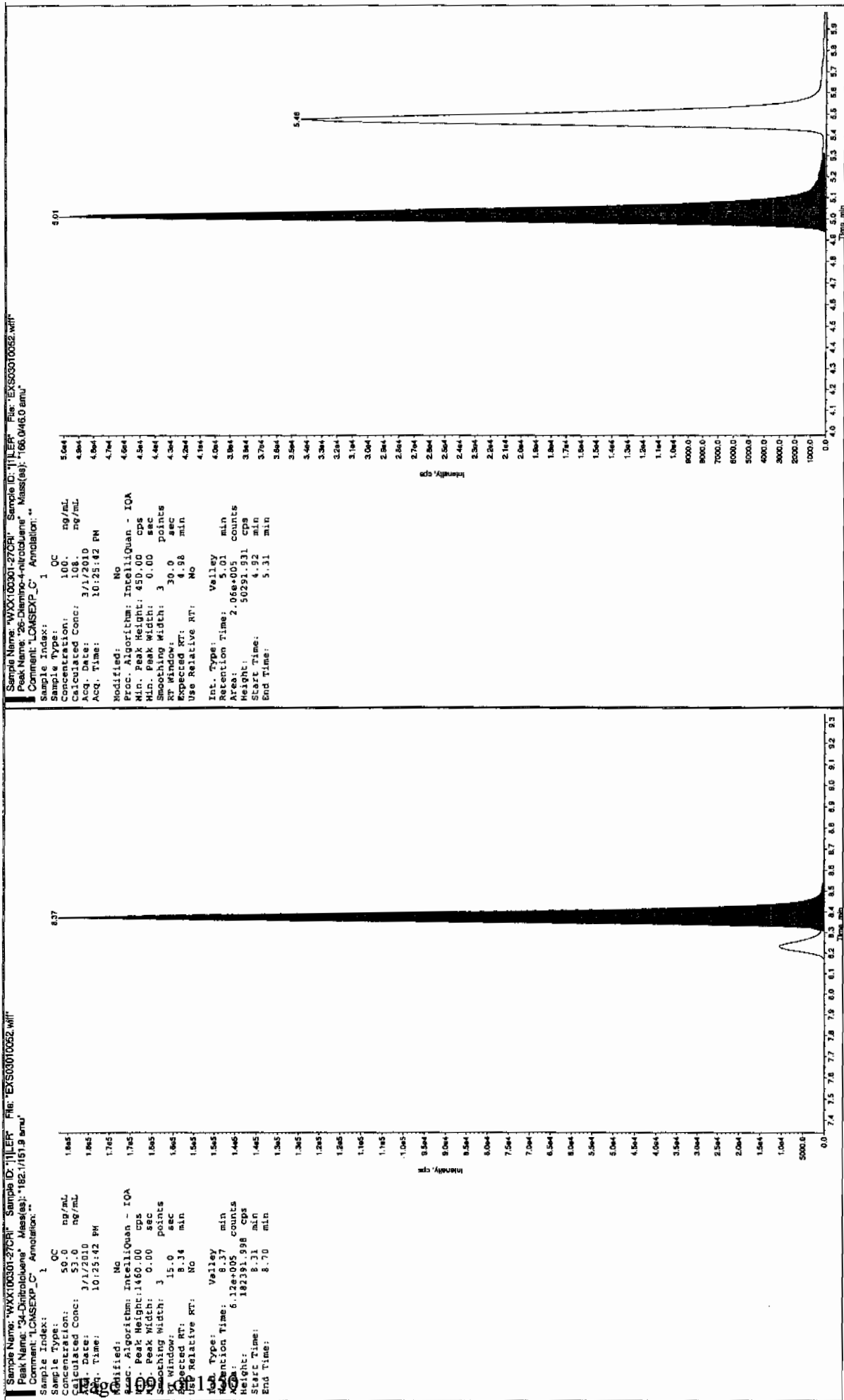
Column used to flag Recovery outside of Limits

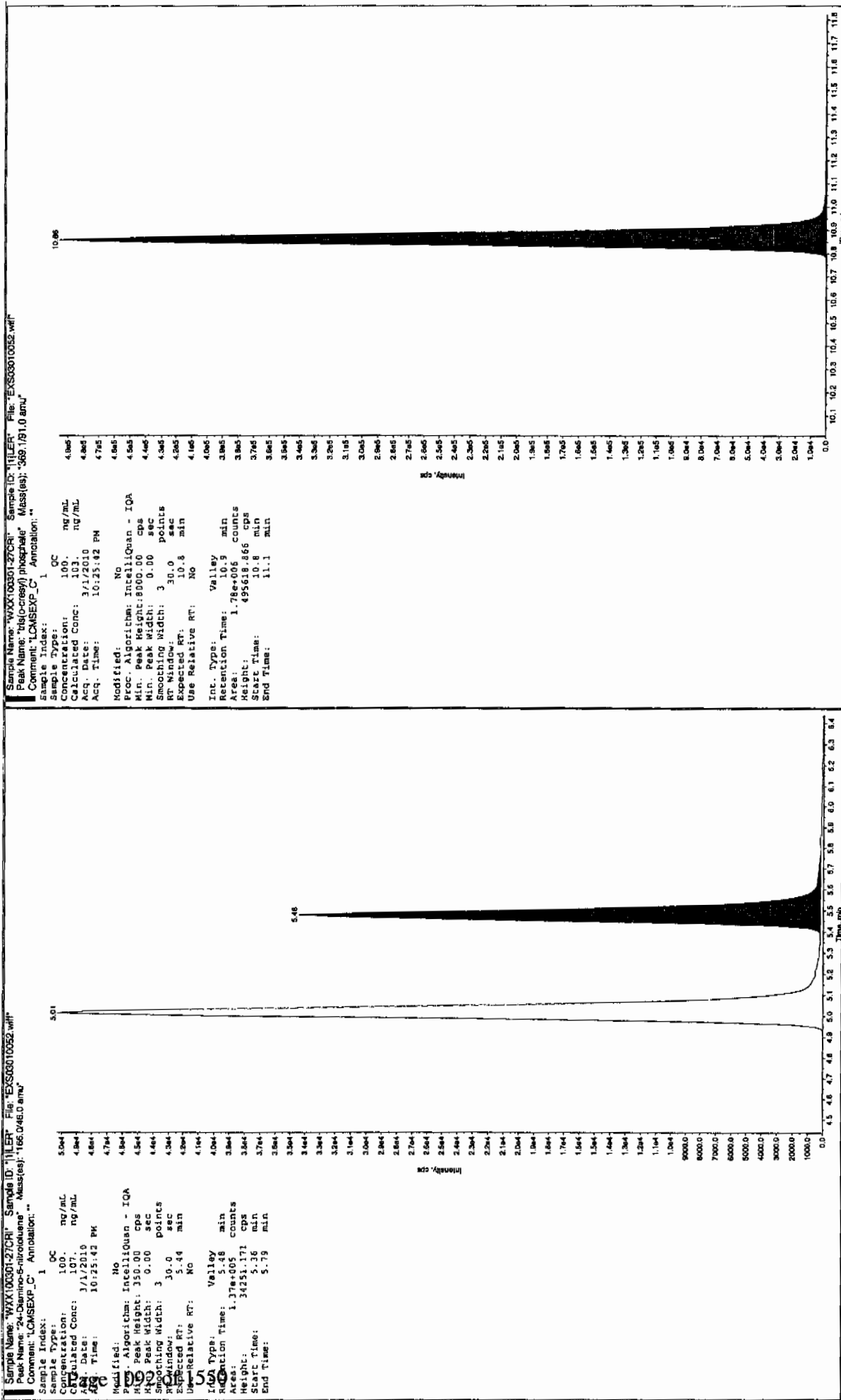
* Value outside of Recovery Limits

Jan 31/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010063.wiff

Analysis Date: 02-MAR-10 01:18

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	564	113	
2,6-Diamino-4-nitrotoluene	500	551	110	
3,4-Dinitrotoluene	250	238	95	
3,5-Dinitroaniline	500	523	105	
TATB	500	513	103	
tris(o-cresyl) phosphate	500	478	96	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

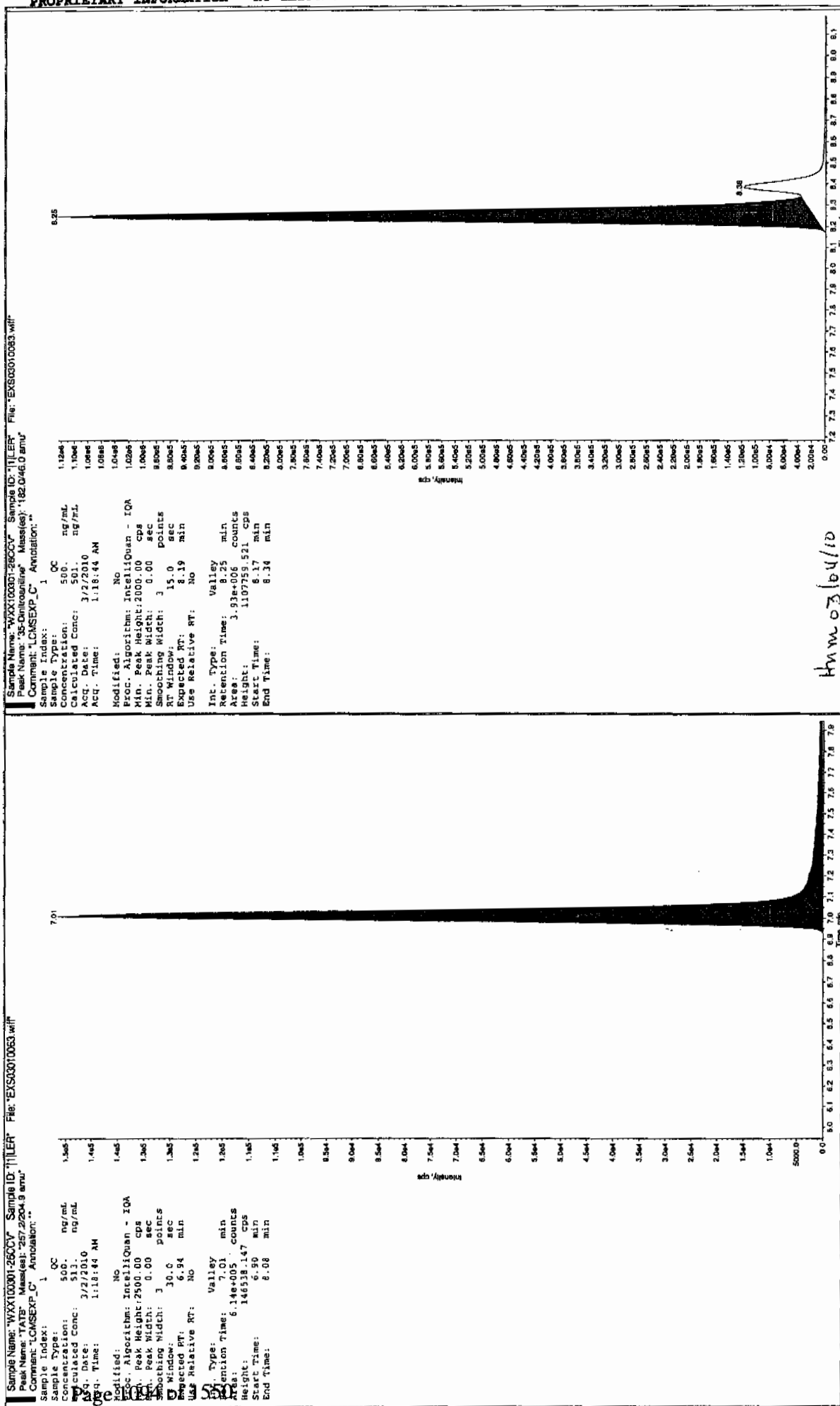
Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 3/3/10

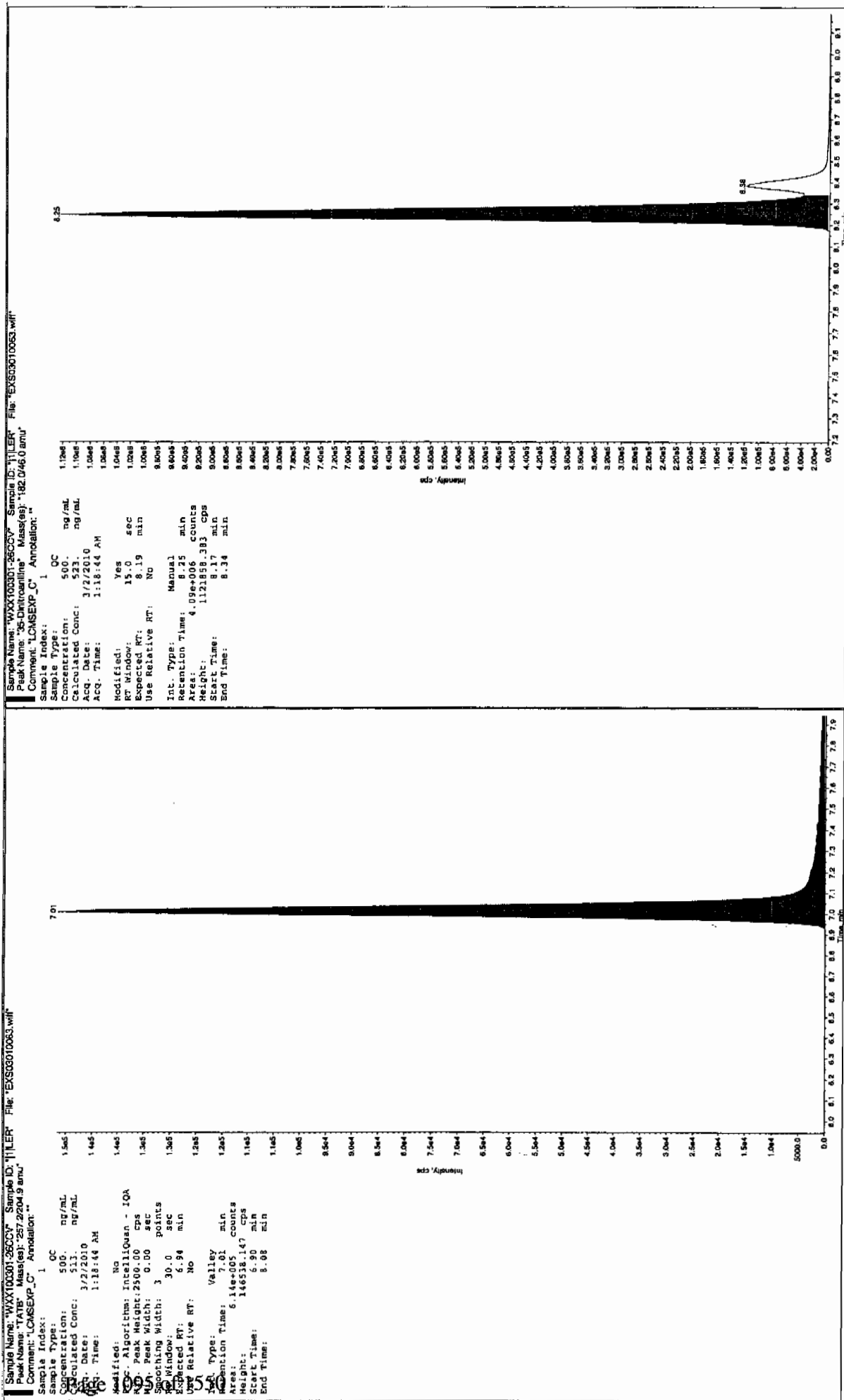
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.



hmm 03/04/10

*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSEXP#4

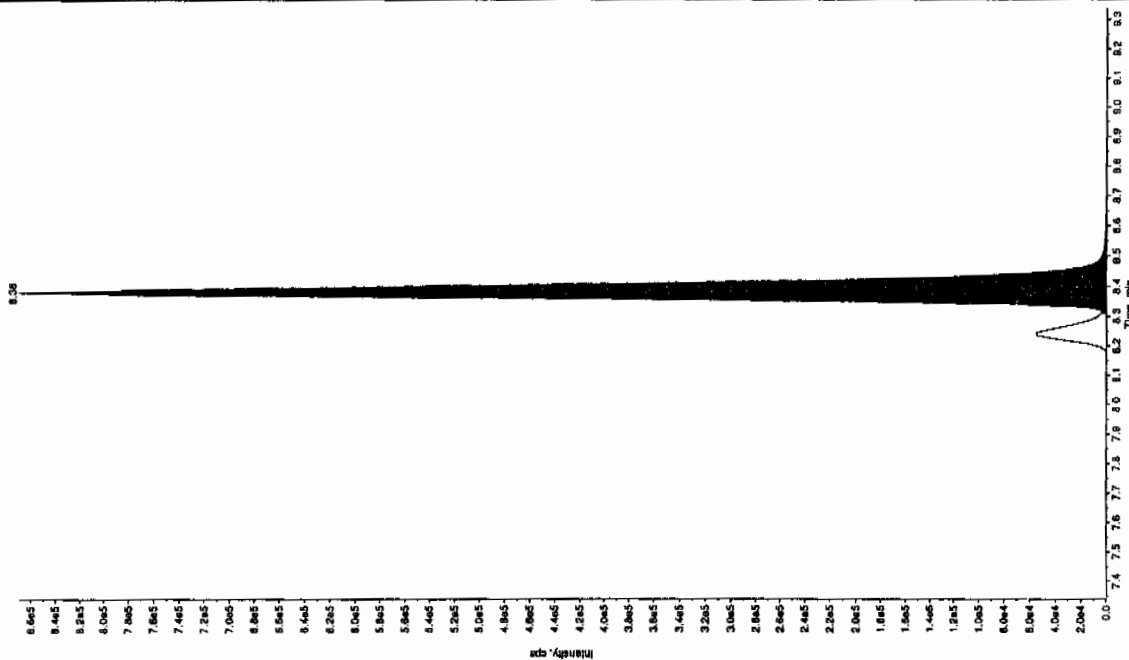
after Jan 3/3/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

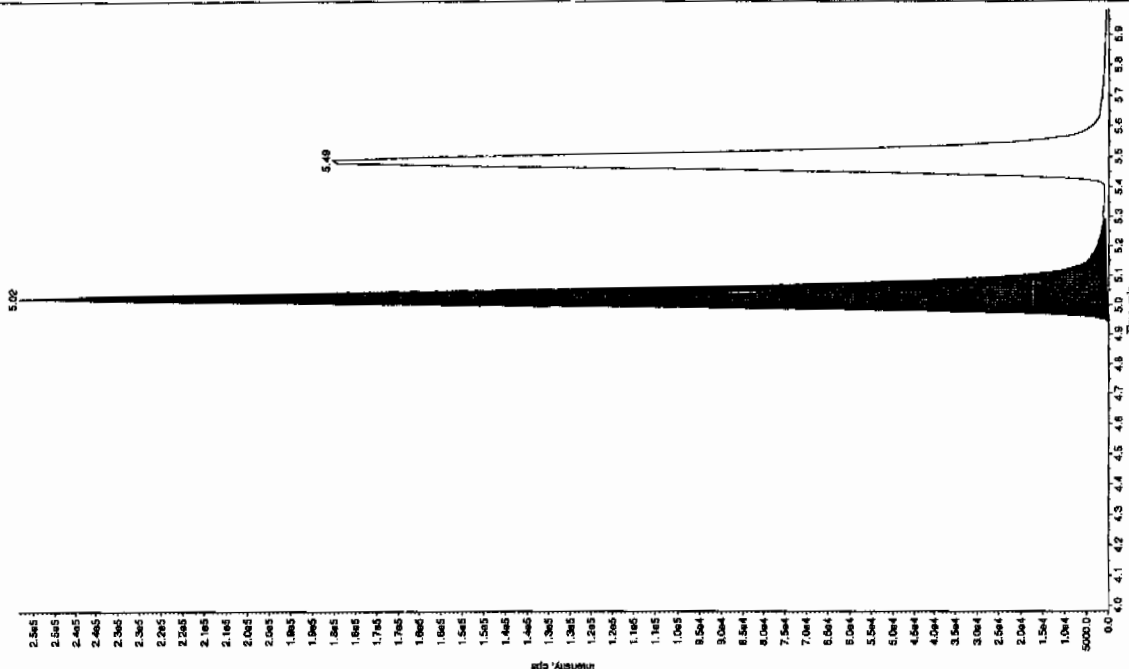
Sample Name: "WXX100301-260CV" Sample ID: "11JER" File: "EX503010063.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1715.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

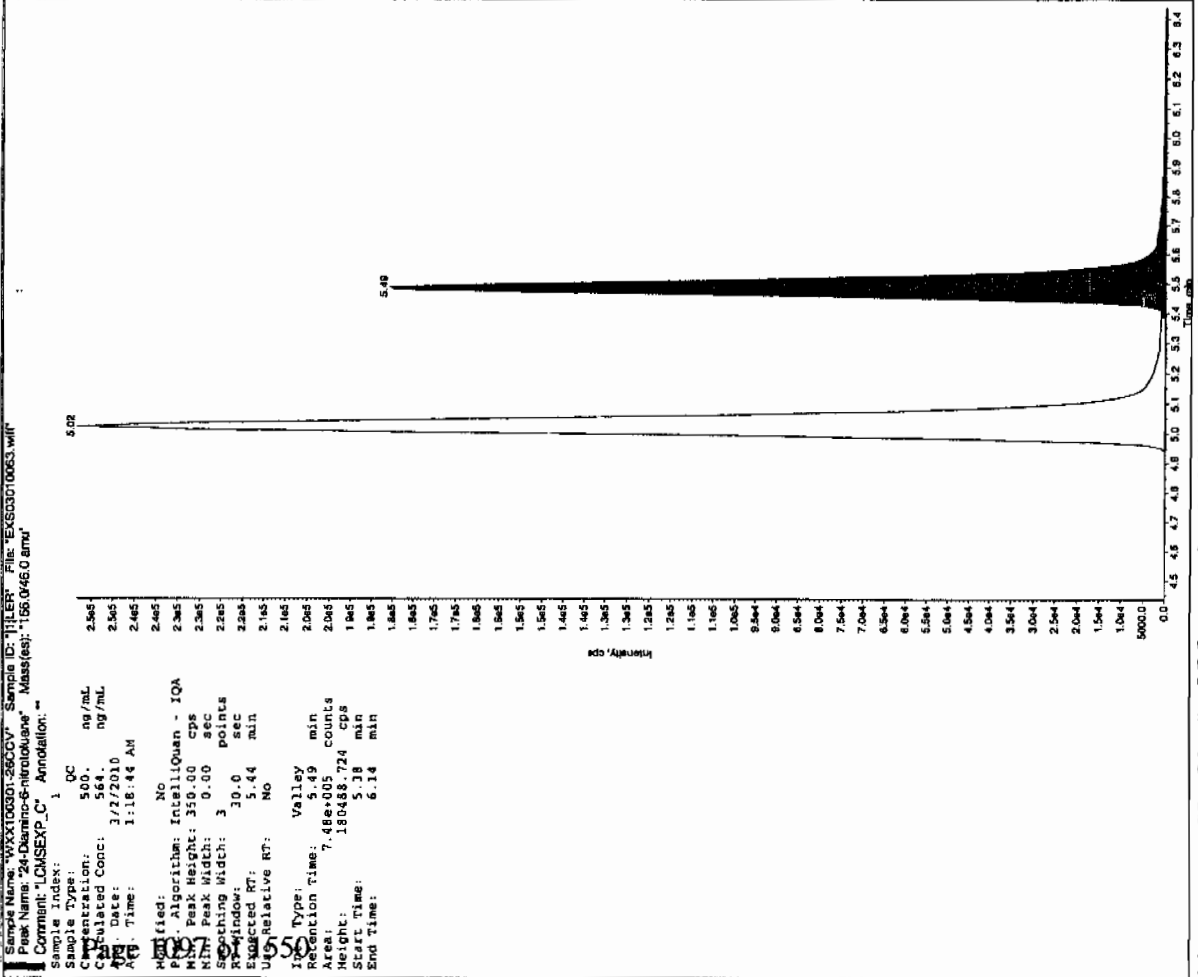
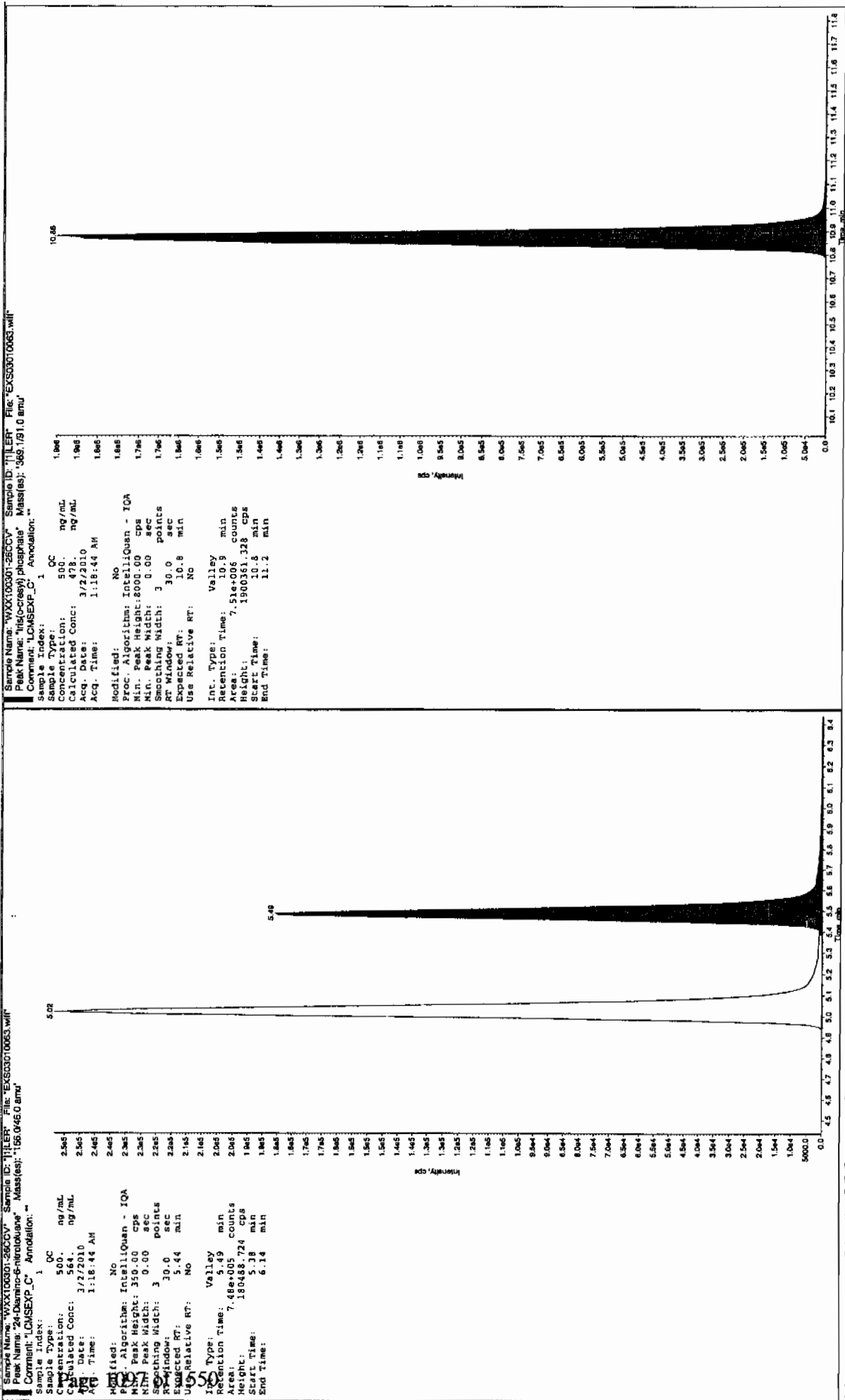
Sample Index: 1
 Sample Type: QC
 Concentration: 250. ng/mL
 Calculated Conc: 3/2/2010
 Acq. Time: 1:18:44 AM
 Modified: NO
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1469.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.34 min
 Use Relative RT: NO
 Int. Type: Valley
 Retention Time: 8.36 min
 Area: 2.89e+006 counts
 Height: 869400 cps
 Start Time: 8.31 min
 End Time: 8.71 min



Sample Name: "WXX100301-260CV" Sample ID: "11JER" File: "EX503010063.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "166.0450 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 3/2/2010
 Acq. Time: 1:18:44 AM
 Modified: NO
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.98 min
 Use Relative RT: NO
 Int. Type: Valley
 Retention Time: 5.02 min
 Area: 1.03e+006 counts
 Height: 253180 cps
 Start Time: 4.93 min
 End Time: 5.23 min





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010065.wiff

Analysis Date: 02-MAR-10 01:50

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	117	117	
2,6-Diamino-4-nitrotoluene	100	109	109	
3,4-Dinitrotoluene	50	51.2	102	
3,5-Dinitroaniline	100	95.4	95	
TATB	100	104	104	
tris(o-cresyl) phosphate	100	102	102	

Recovery Limits:

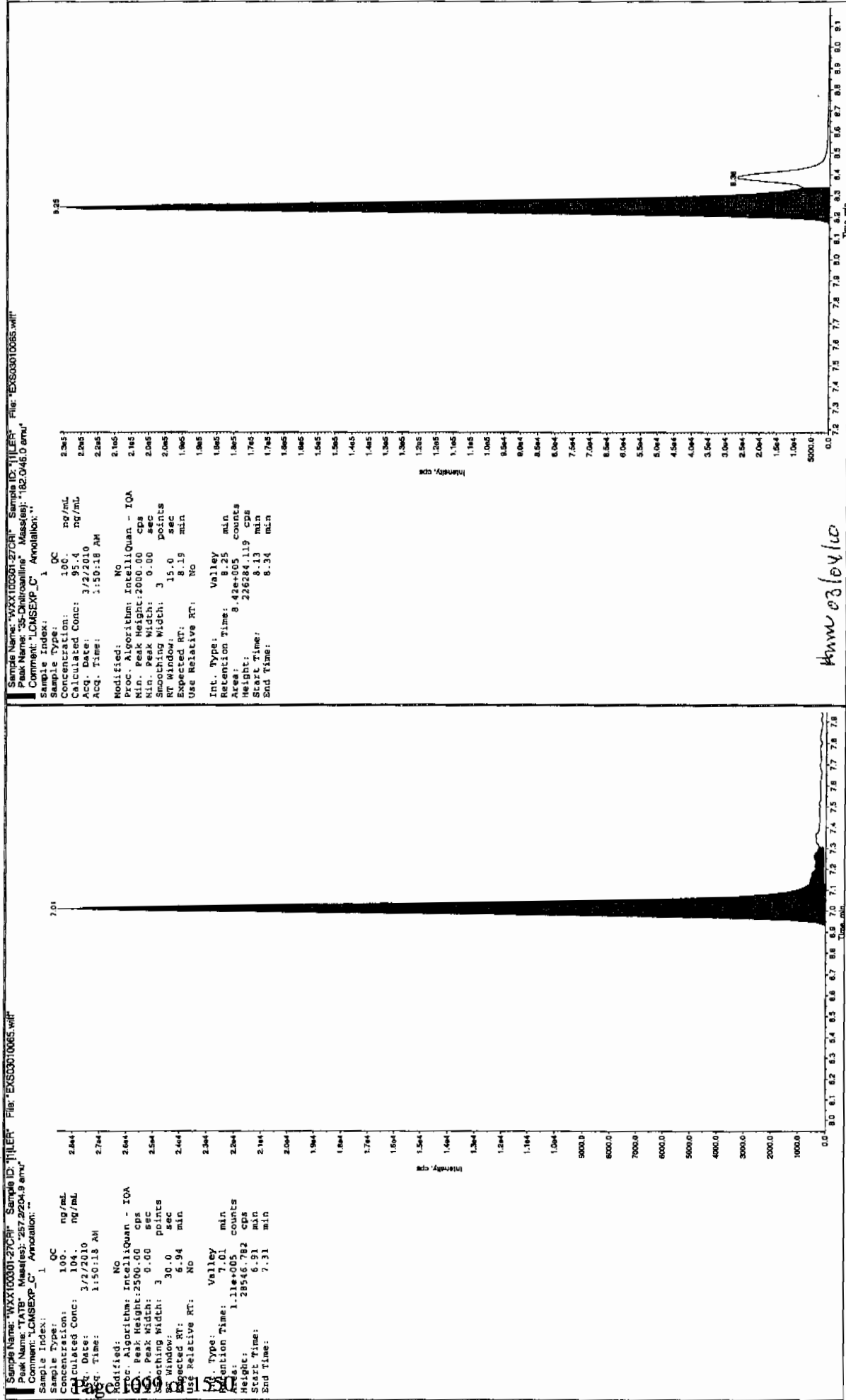
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

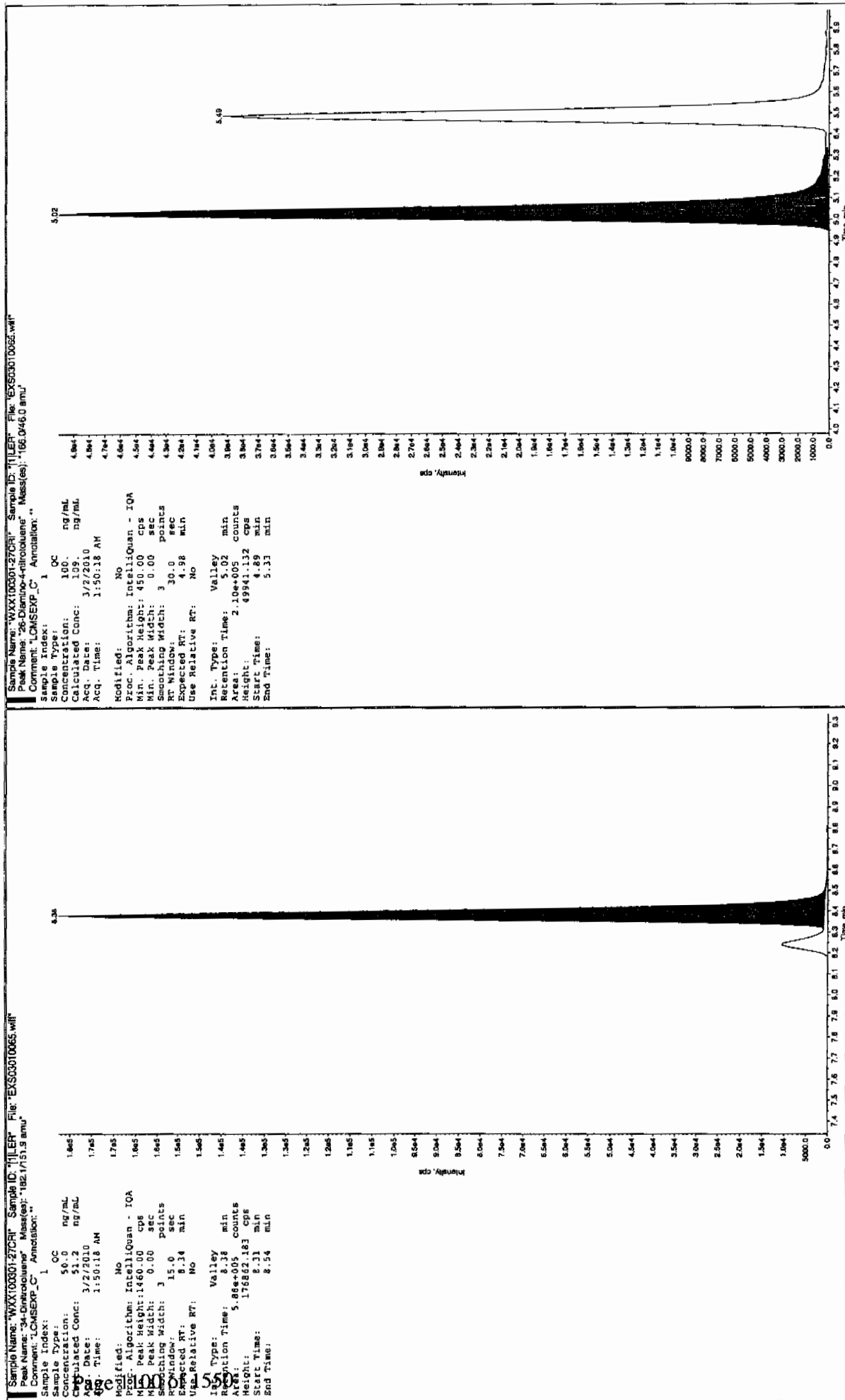
Other Target Analytes 70-130%

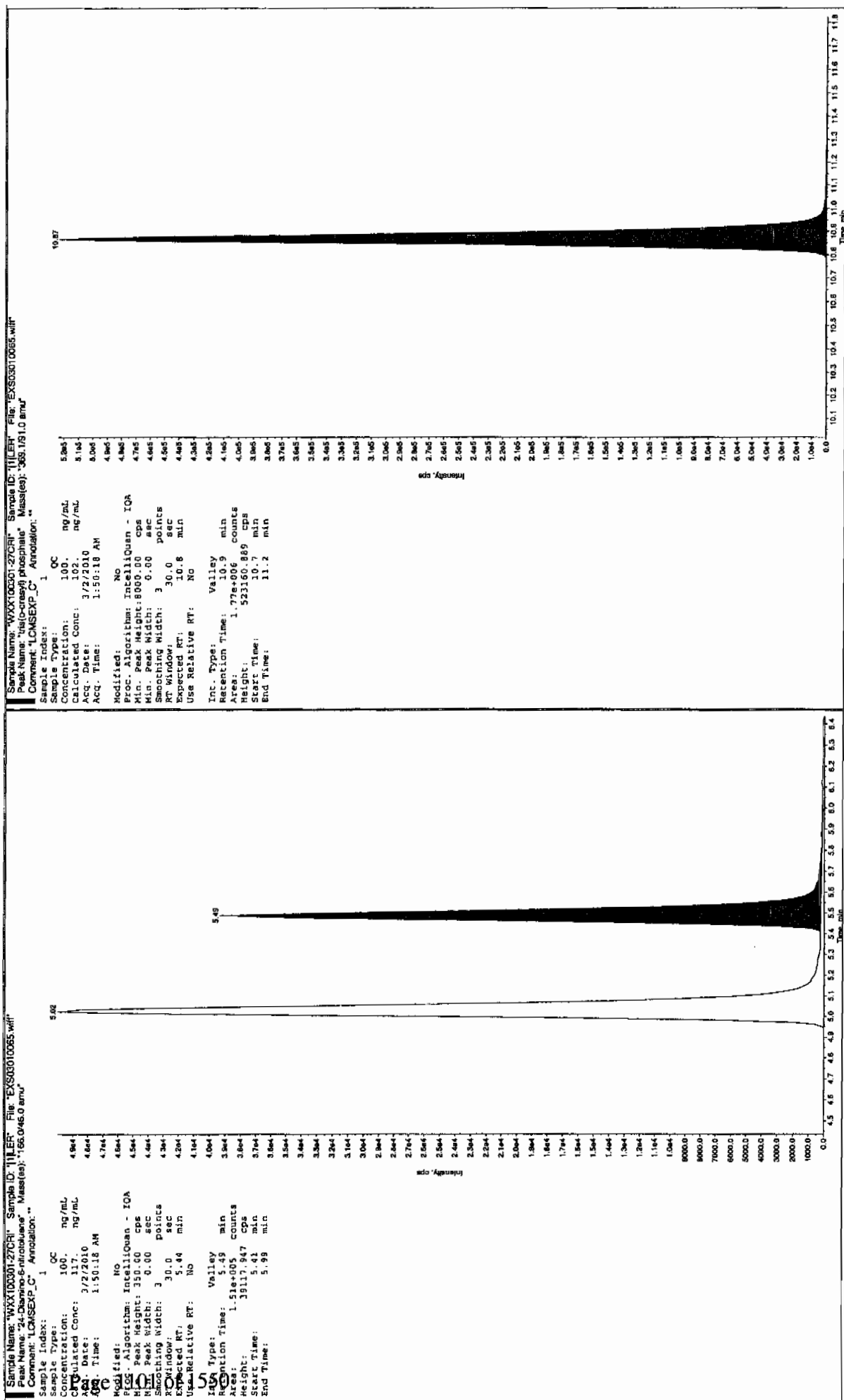
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Jan 3/3/10







*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010074.wiff

Analysis Date: 02-MAR-10 04:11

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	586	117	
2,6-Diamino-4-nitrotoluene	500	558	112	
3,4-Dinitrotoluene	250	243	97	
3,5-Dinitroaniline	500	499	100	
TATB	500	522	104	
tris(o-cresyl) phosphate	500	498	100	

Recovery Limits:

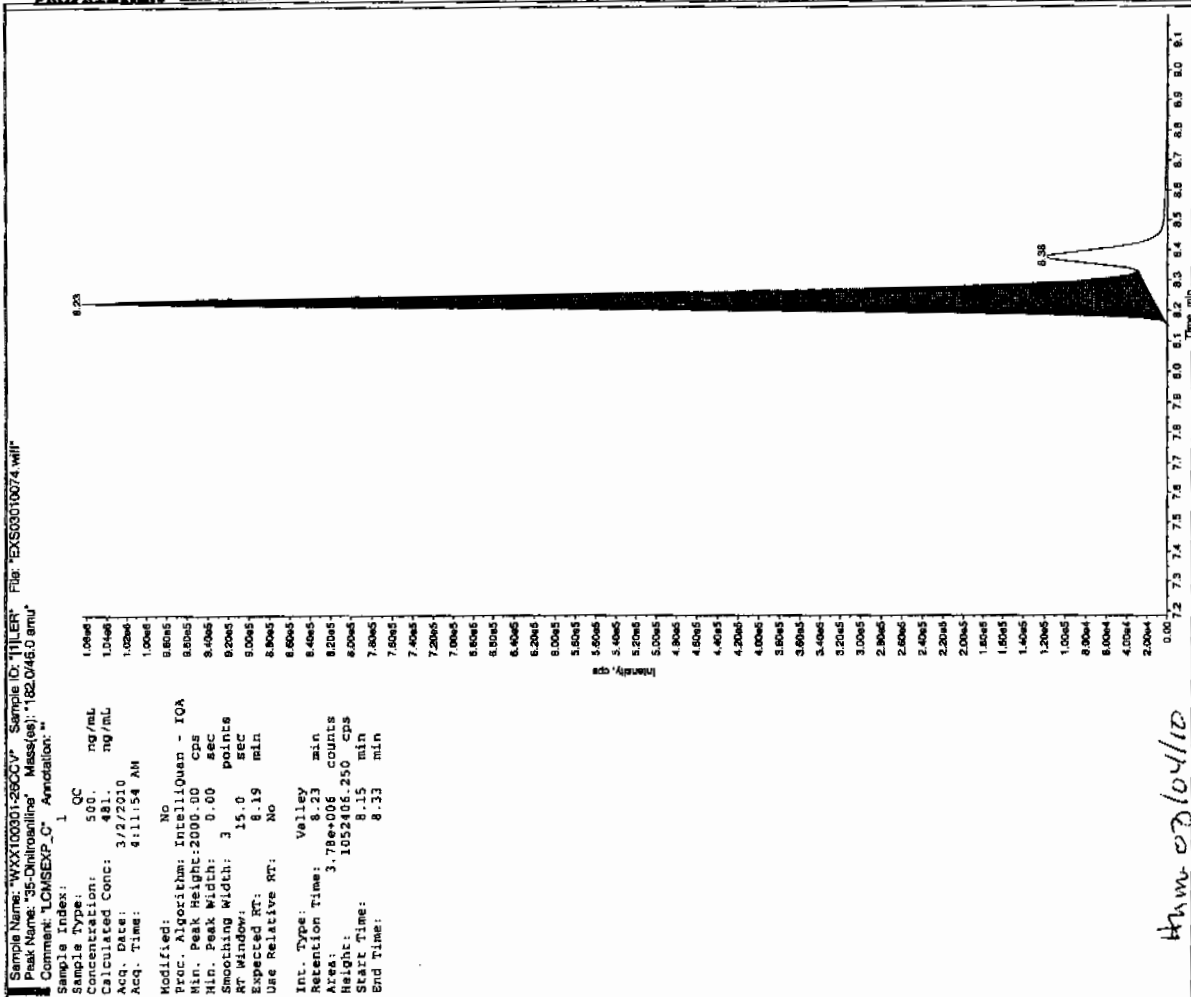
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

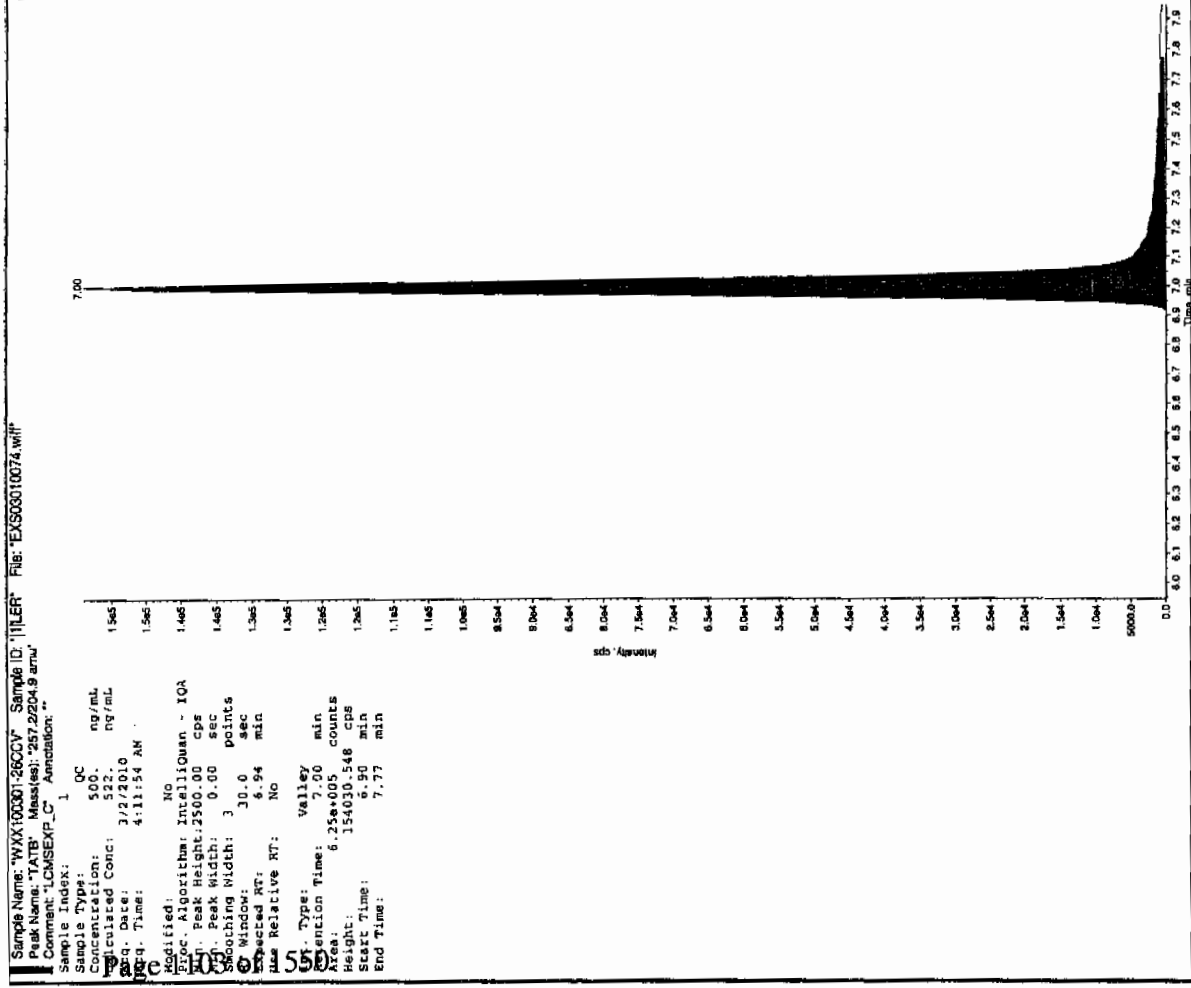
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

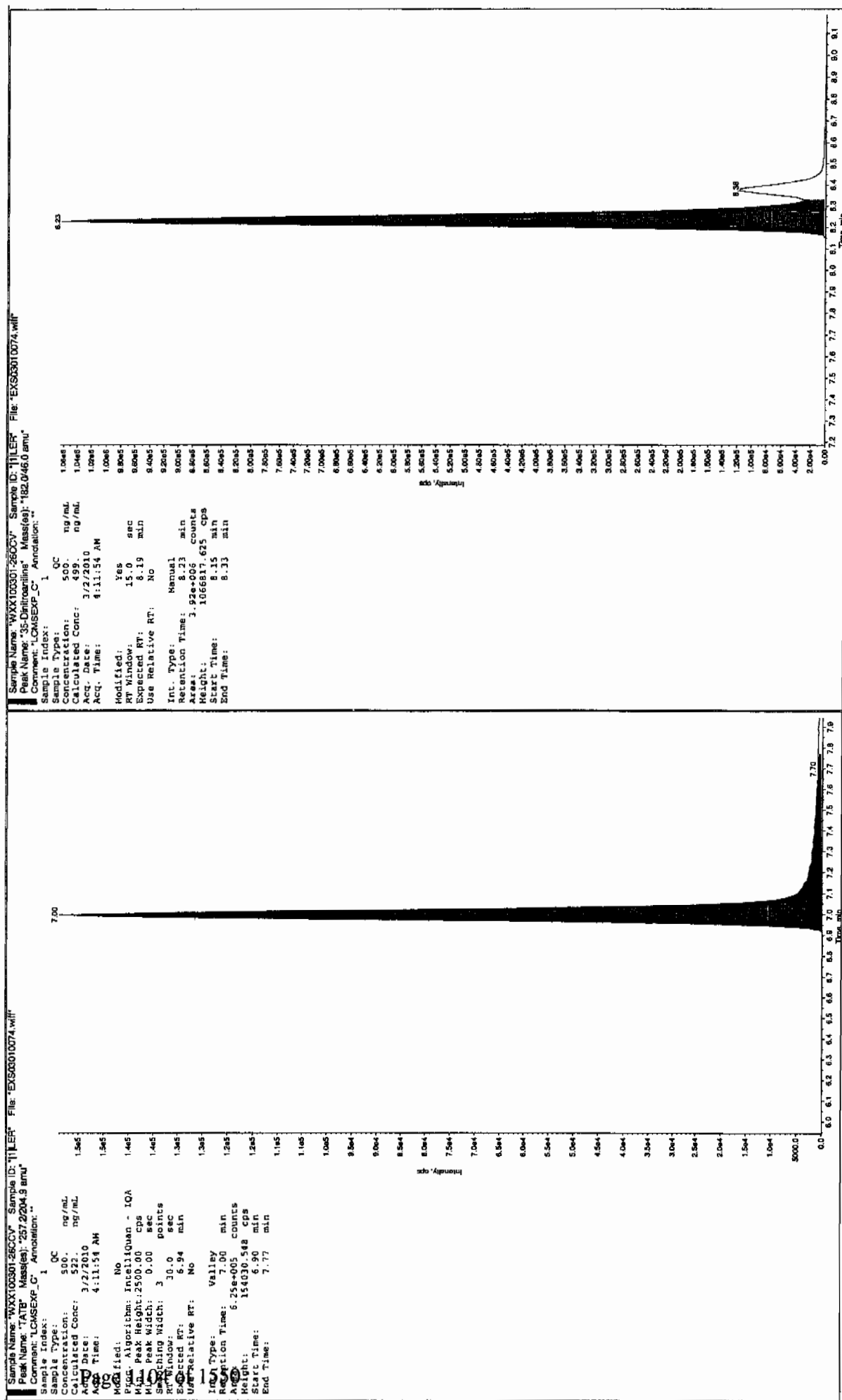
Before Dec 31/10



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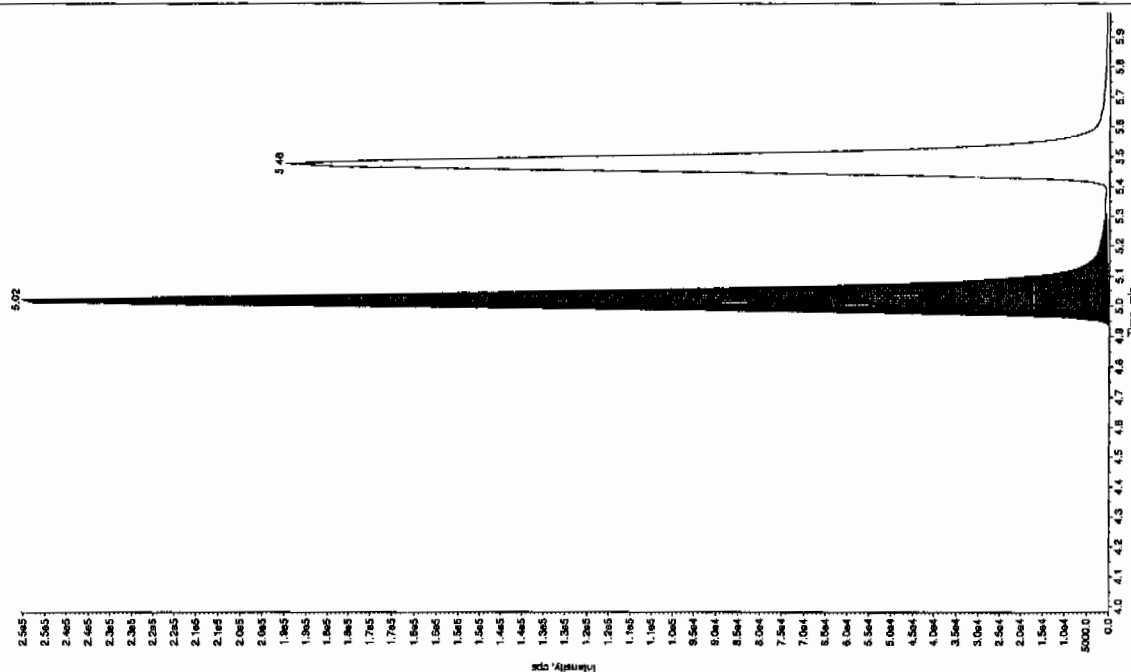
after Jan 3/8/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

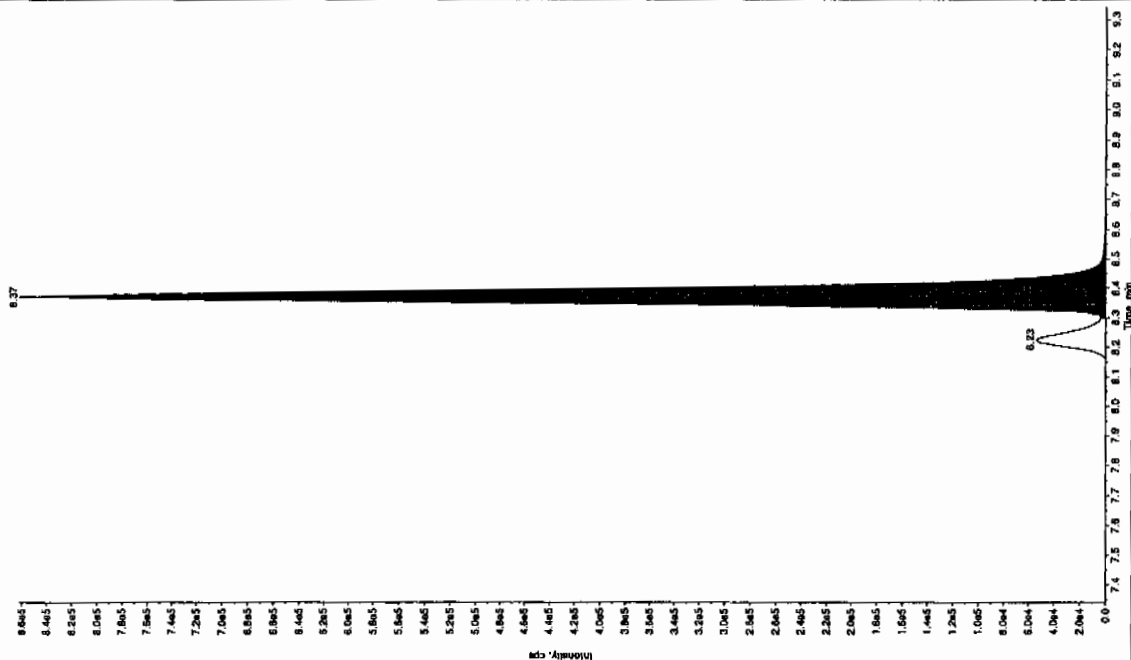
Sample Name: "WXX100301-260CV" Sample ID: "JLER" File: "EXS03010074.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMS-EXP_C" Annotation: "

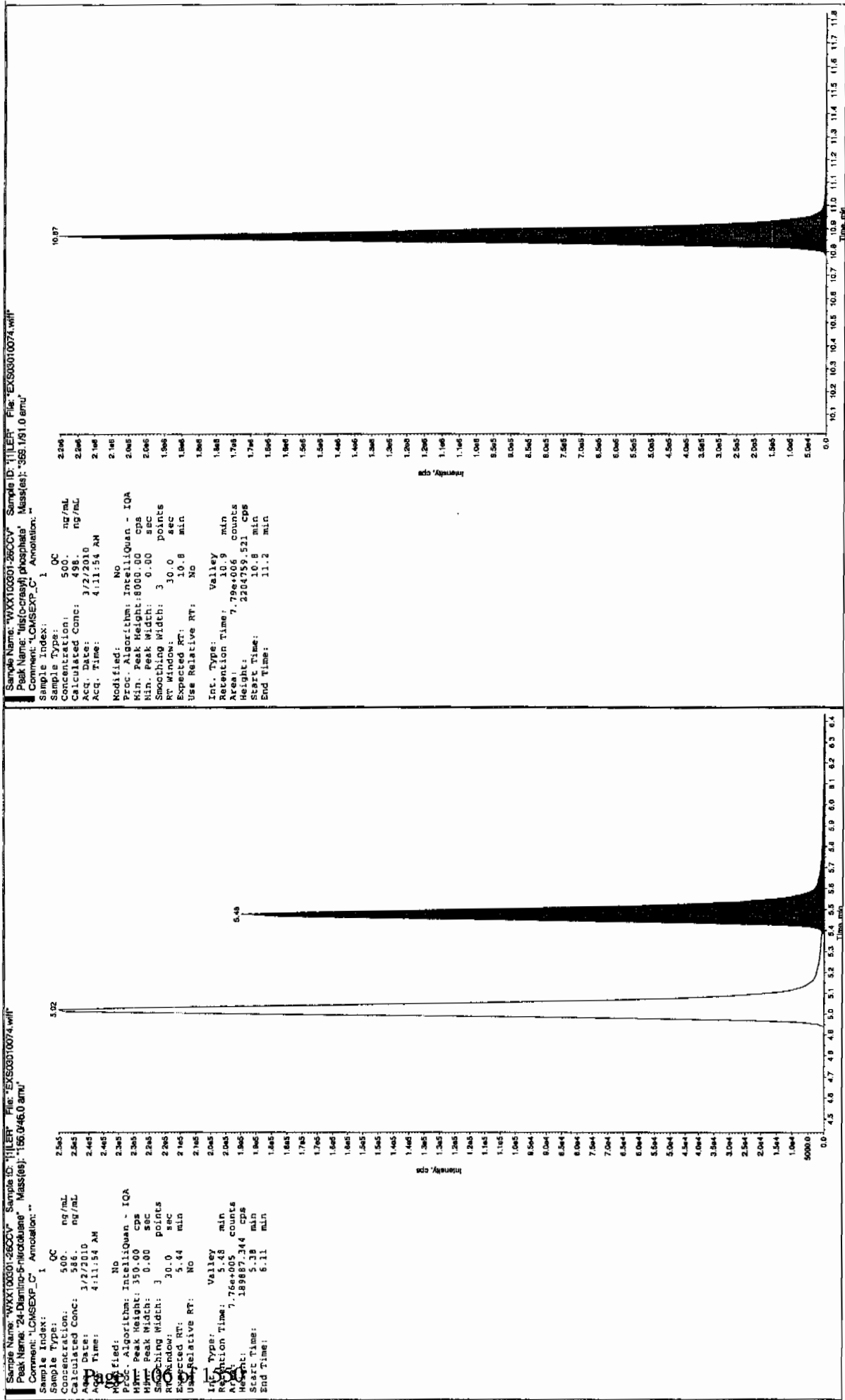
Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 558. ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 4:11:54 AM
 Modified: NO
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.98 min
 Use Relative RT: NO
 Int. Type: Valley
 Retention Time: 5.02 min
 Area: 1.04e+006 counts
 Height: 250286.514 cps
 Start Time: 4.92 min
 End Time: 5.31 min



Sample Name: "WXX100301-260CV" Sample ID: "JLER" File: "EXS03010074.wif"
 Peak Name: "34-Diamino-4-nitrofluorene" Mass(es): "182.171.9 amu"
 Comment: "LCMS-EXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 250. ng/mL
 Calculated Conc: 241. ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 4:21:54 AM
 Modified: NO
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.34 min
 Use Relative RT: NO
 Int. Type: Valley
 Retention Time: 8.37 min
 Area: 2.95e+006 counts
 Height: 862216.364 cps
 Start Time: 8.20 min
 End Time: 8.69 min





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010076.wiff

Analysis Date: 02-MAR-10 04:43

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	125	125	
2,6-Diamino-4-nitrotoluene	100	113	113	
3,4-Dinitrotoluene	50	51.9	104	
3,5-Dinitroaniline	100	97.5	98	
TATB	100	107	107	
tris(o-cresyl) phosphate	100	102	102	

Recovery Limits:

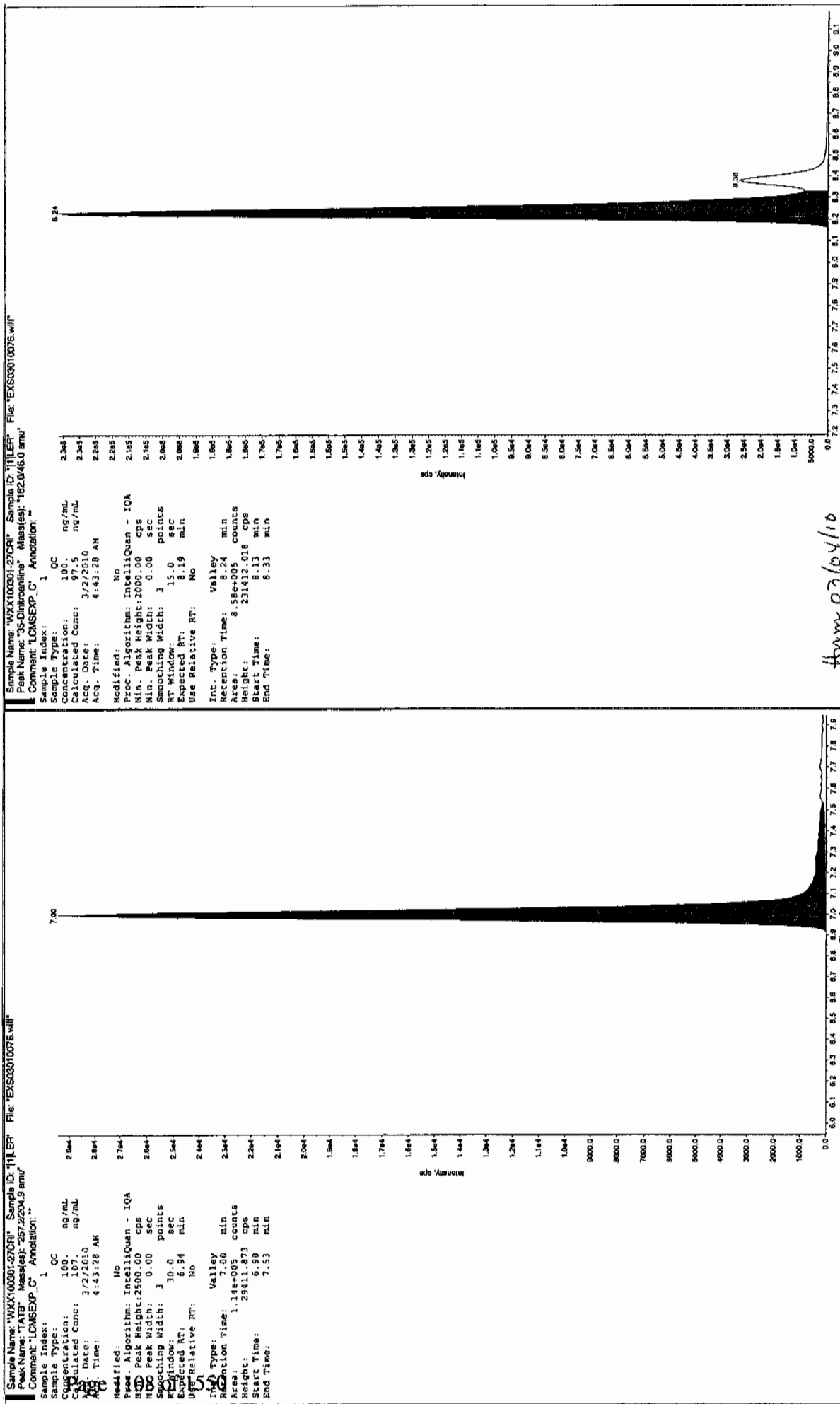
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

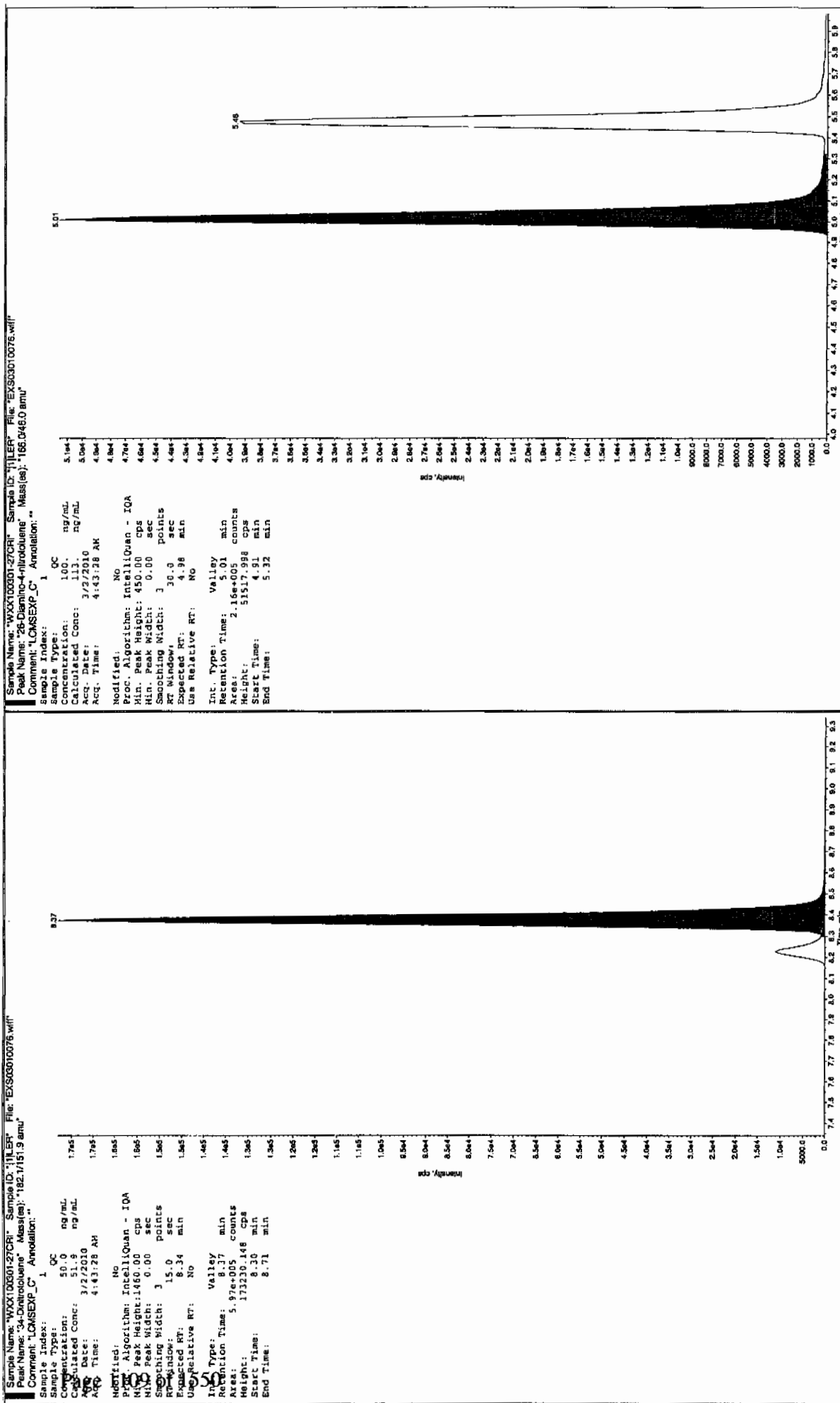
Column used to flag Recovery outside of Limits

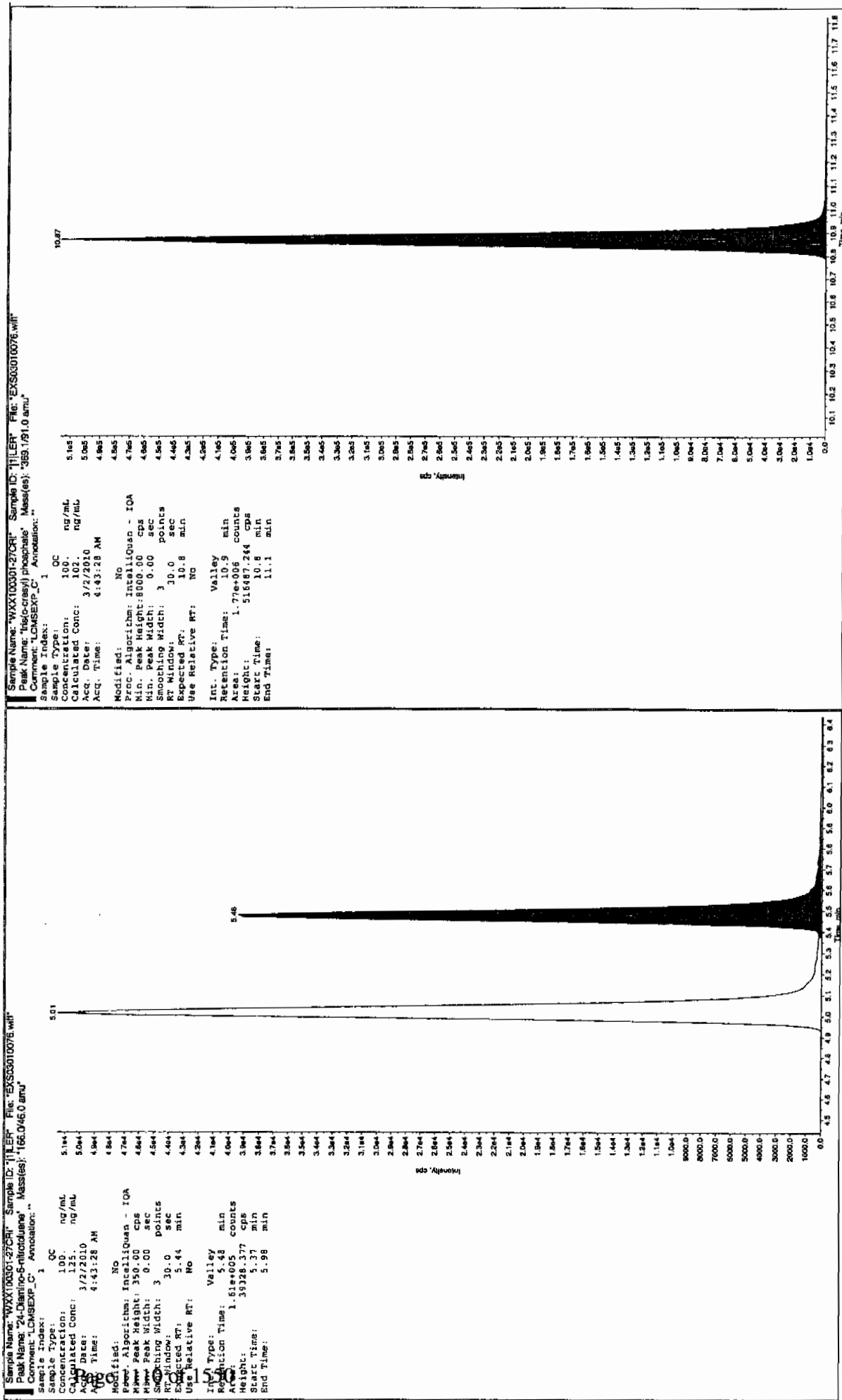
* Value outside of Recovery Limits

Jan 3/3/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010087.wiff

Analysis Date: 02-MAR-10 07:36

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	521	104	
2,6-Diamino-4-nitrotoluene	500	543	109	
3,4-Dinitrotoluene	250	239	95	
3,5-Dinitroaniline	500	504	101	
TATB	500	504	101	
tris(o-cresyl) phosphate	500	492	98	

Recovery Limits:

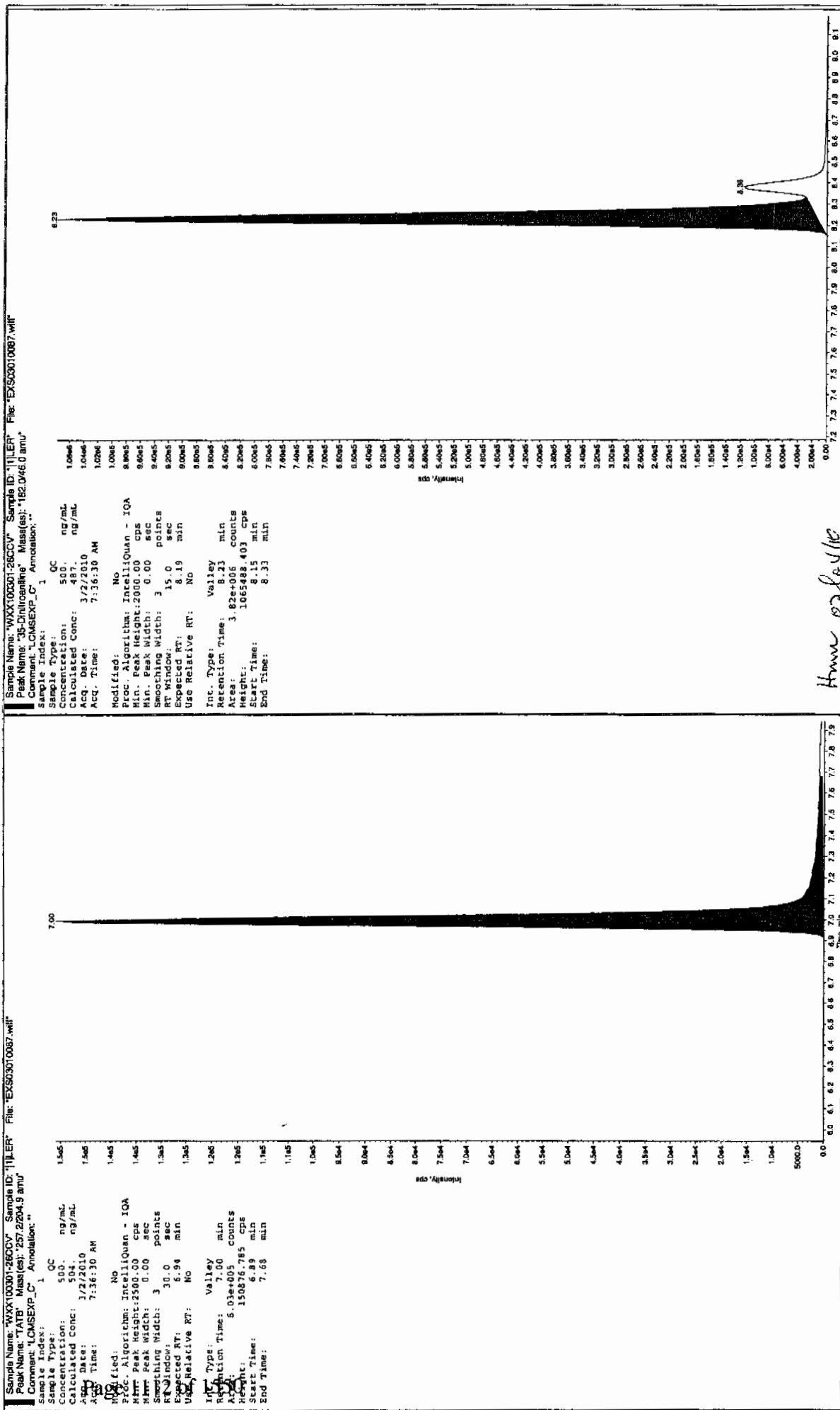
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other/Target Analytes 80-120%

Column used to flag Recovery outside of Limits

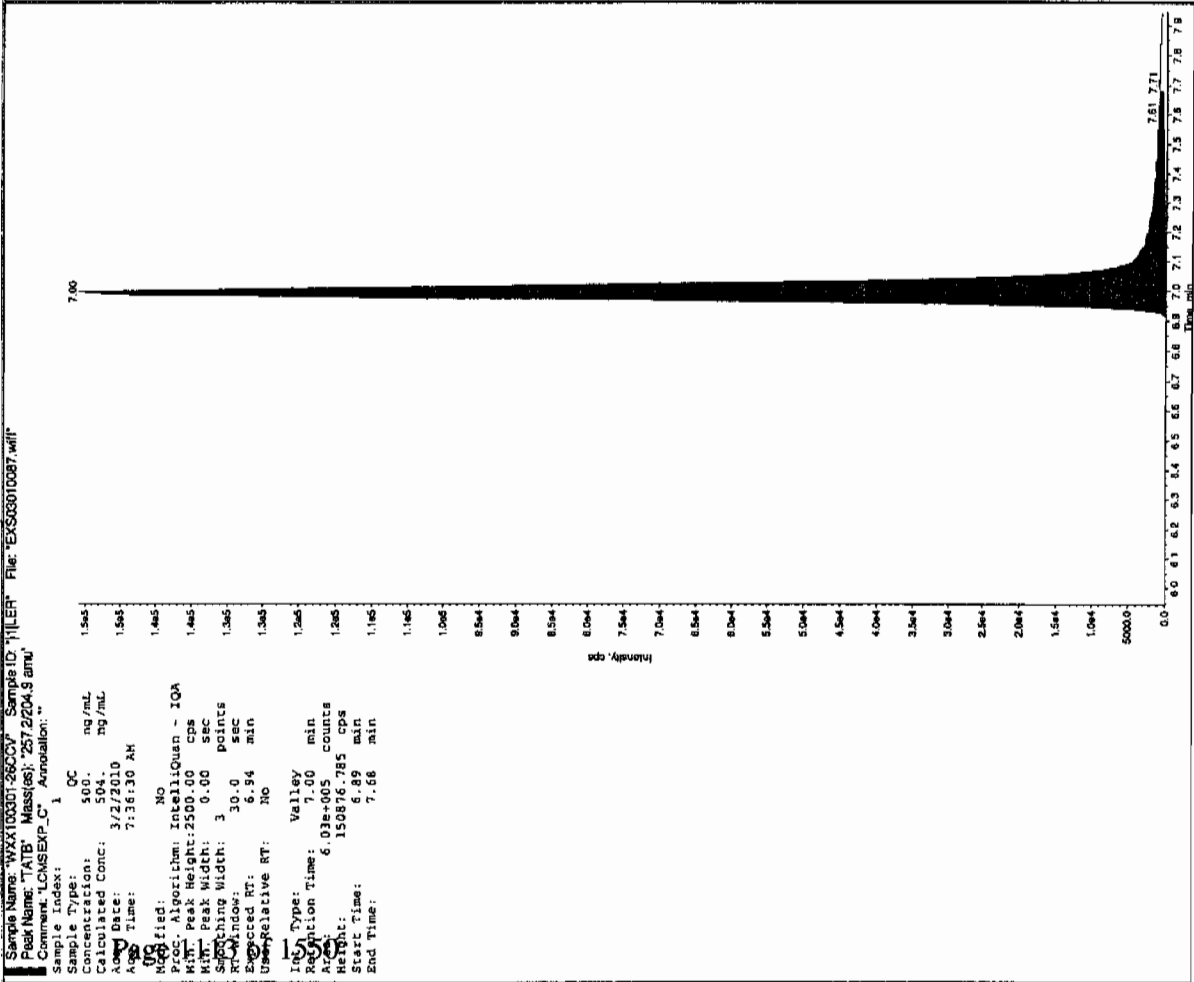
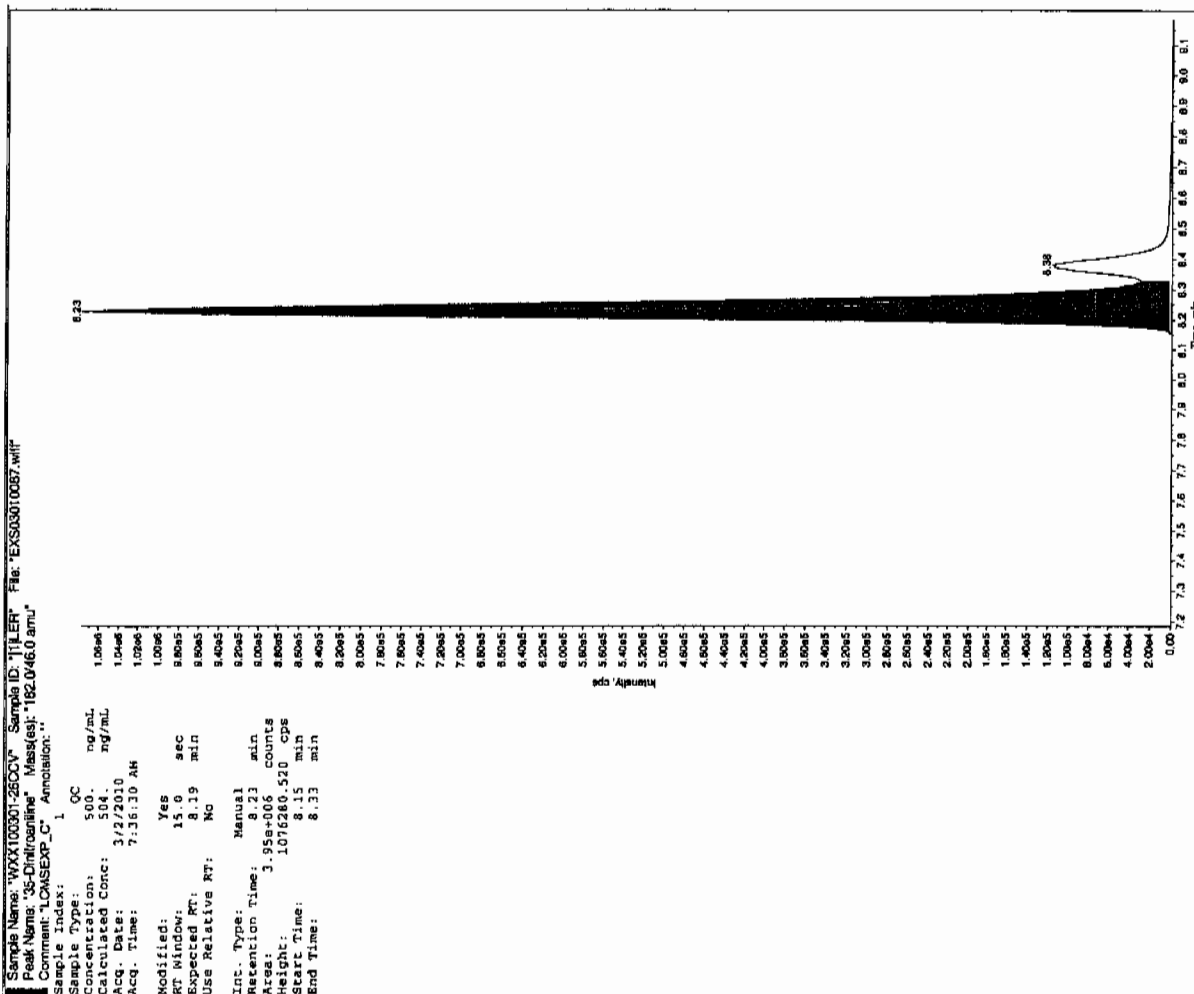
* Value outside of Recovery Limits

Before Jan 31/10

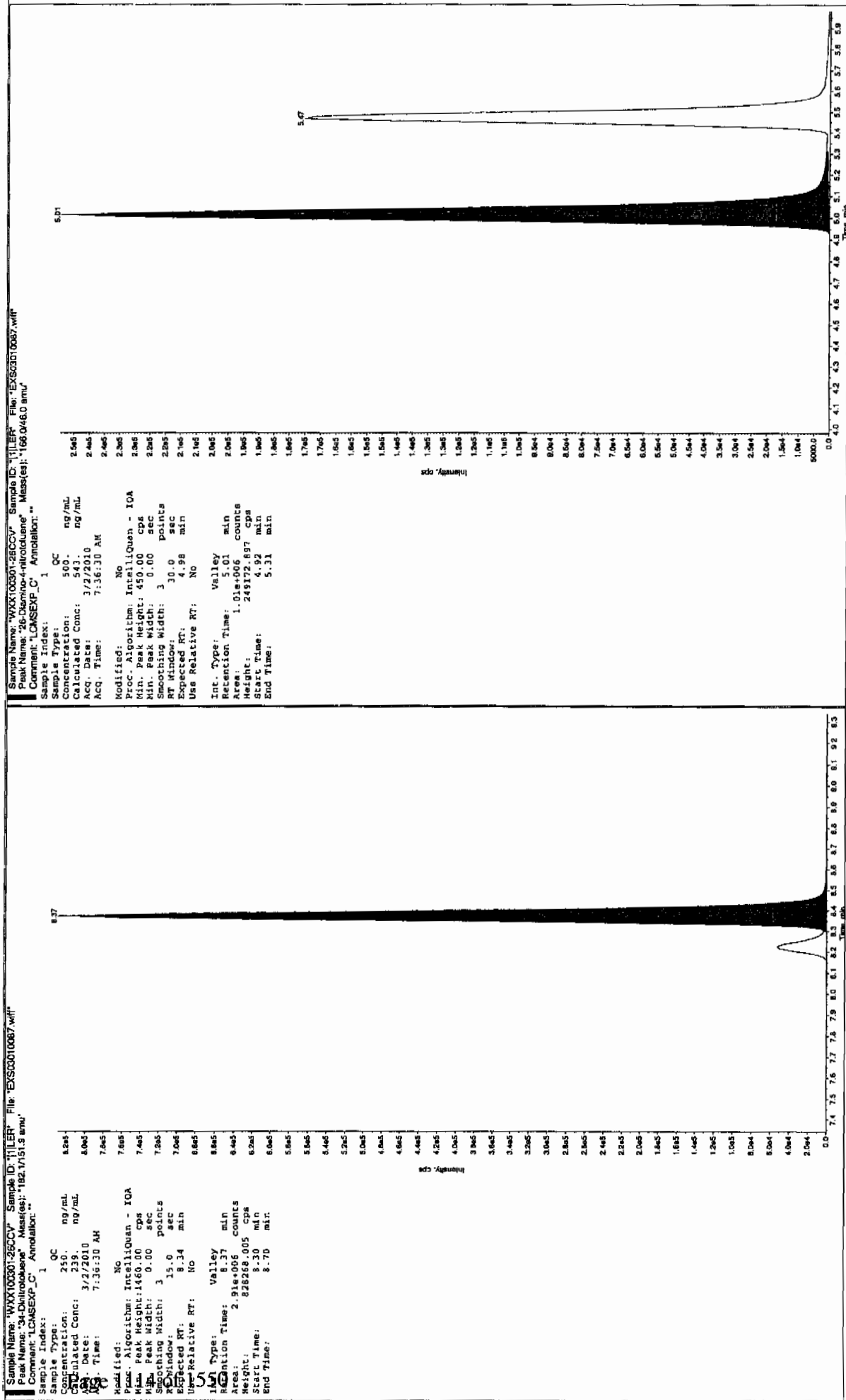


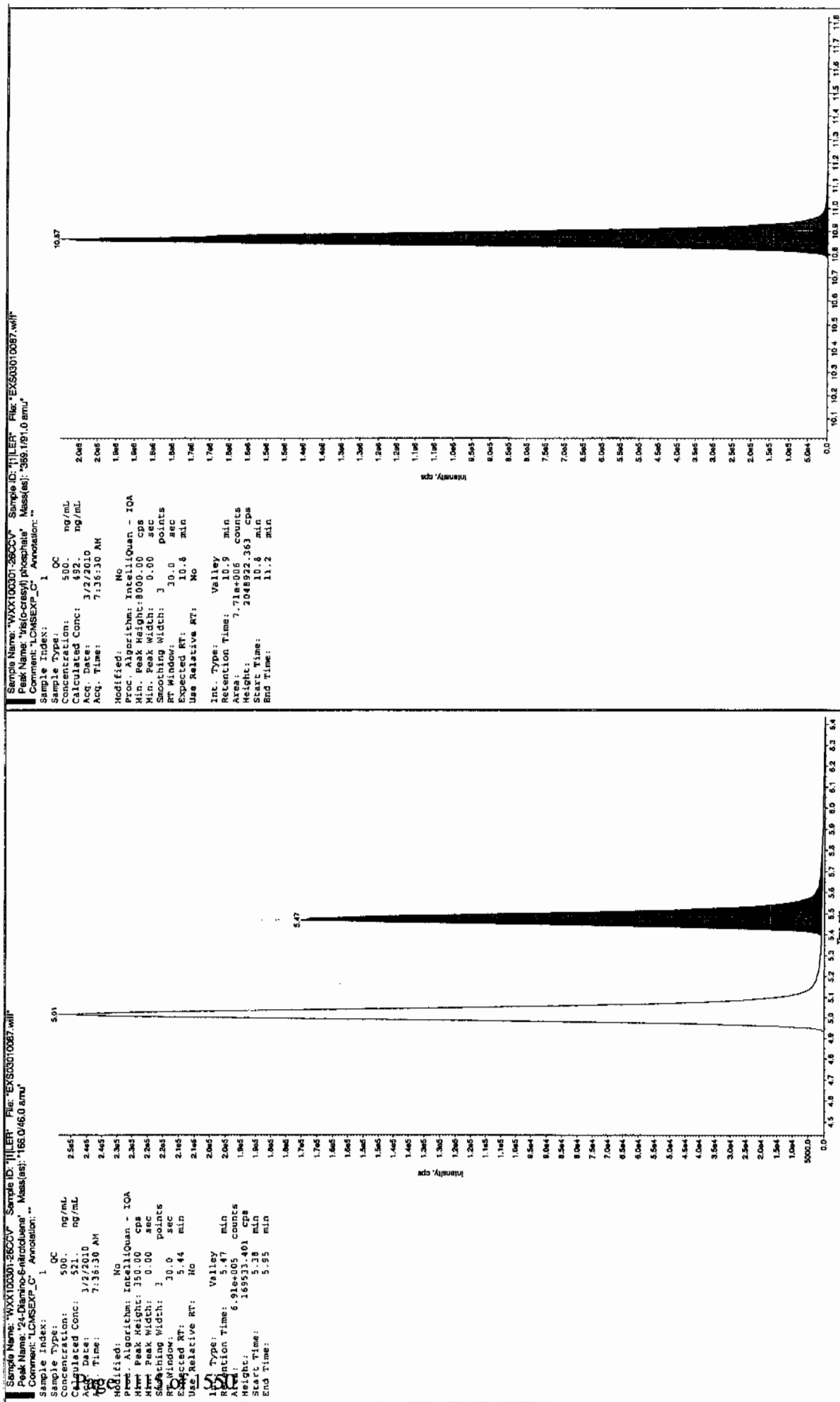
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

after Jan 3/3/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010089.wiff

Analysis Date: 02-MAR-10 08:08

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	117	117	
2,6-Diamino-4-nitrotoluene	100	113	113	
3,4-Dinitrotoluene	50	52.9	106	
3,5-Dinitroaniline	100	94.2	94	
TATB	100	104	104	
tris(o-cresyl) phosphate	100	93.9	94	

Recovery Limits:

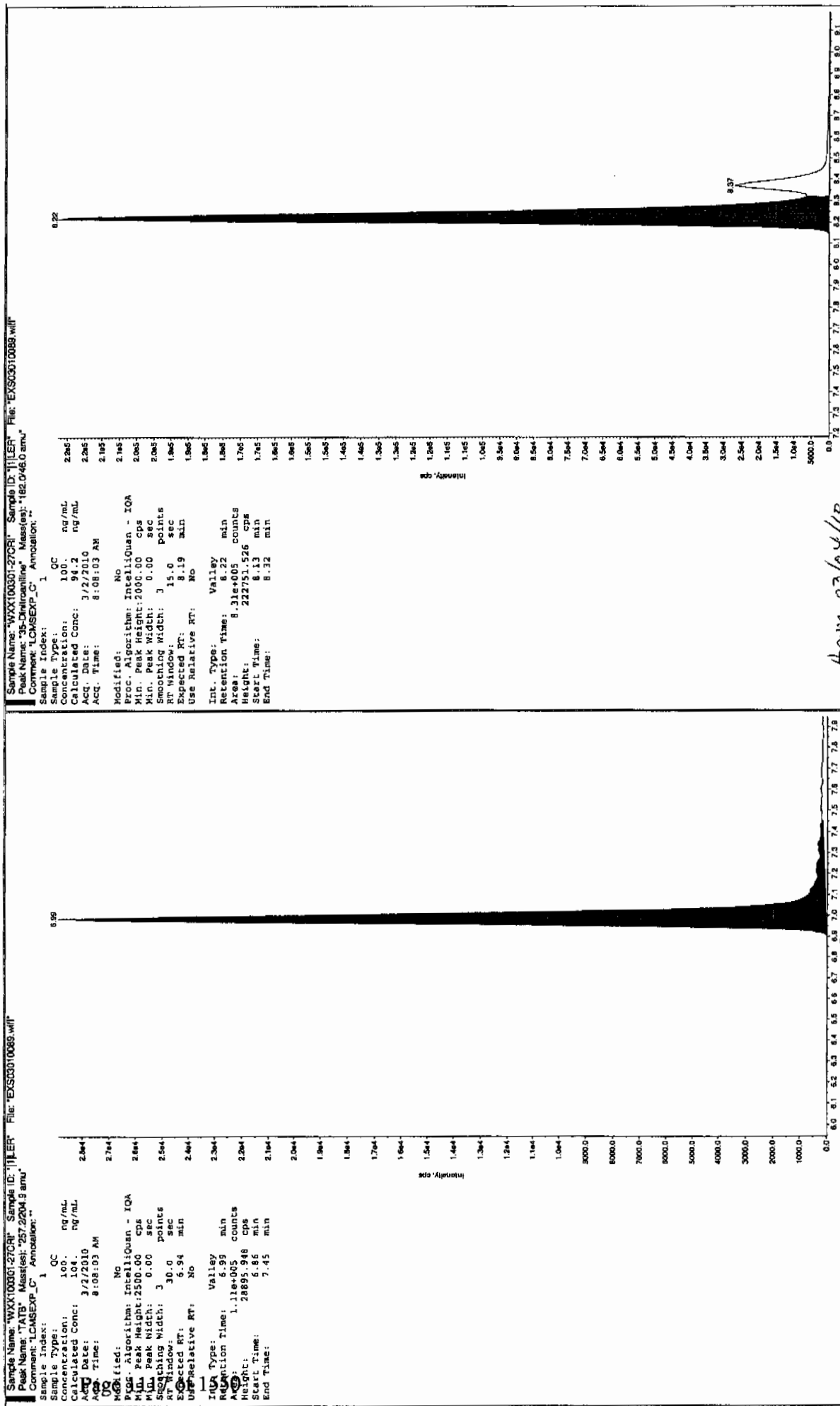
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

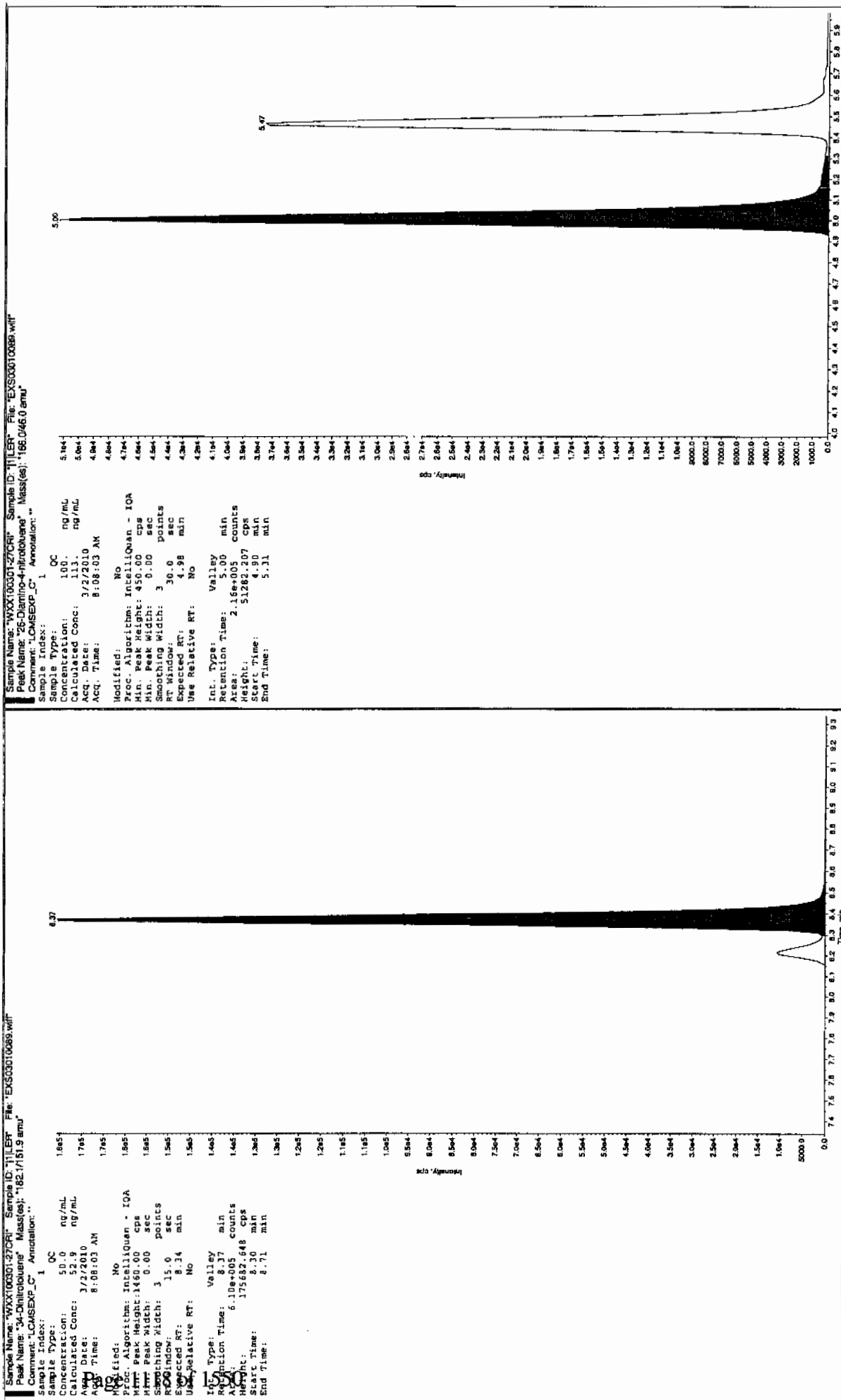
Column used to flag Recovery outside of Limits

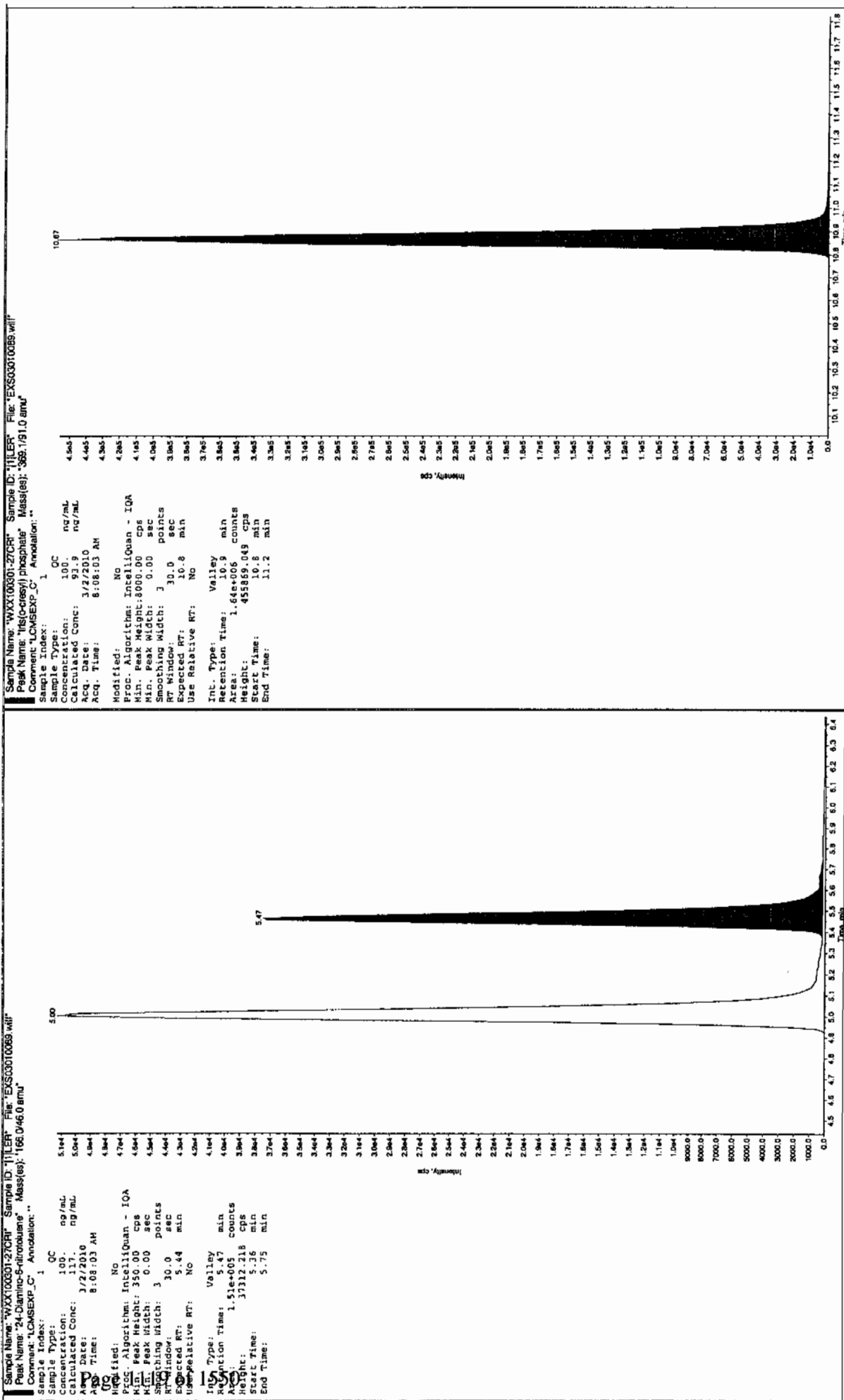
* Value outside of Recovery Limits

Run 313110



Run 03/04/10





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010100.wiff

Analysis Date: 02-MAR-10 11:01

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	518	104	
2,6-Diamino-4-nitrotoluene	500	509	102	
3,4-Dinitrotoluene	250	228	91	
3,5-Dinitroaniline	500	486	97	
TATB	500	516	103	
tris(o-cresyl) phosphate	500	478	96	

Recovery Limits:

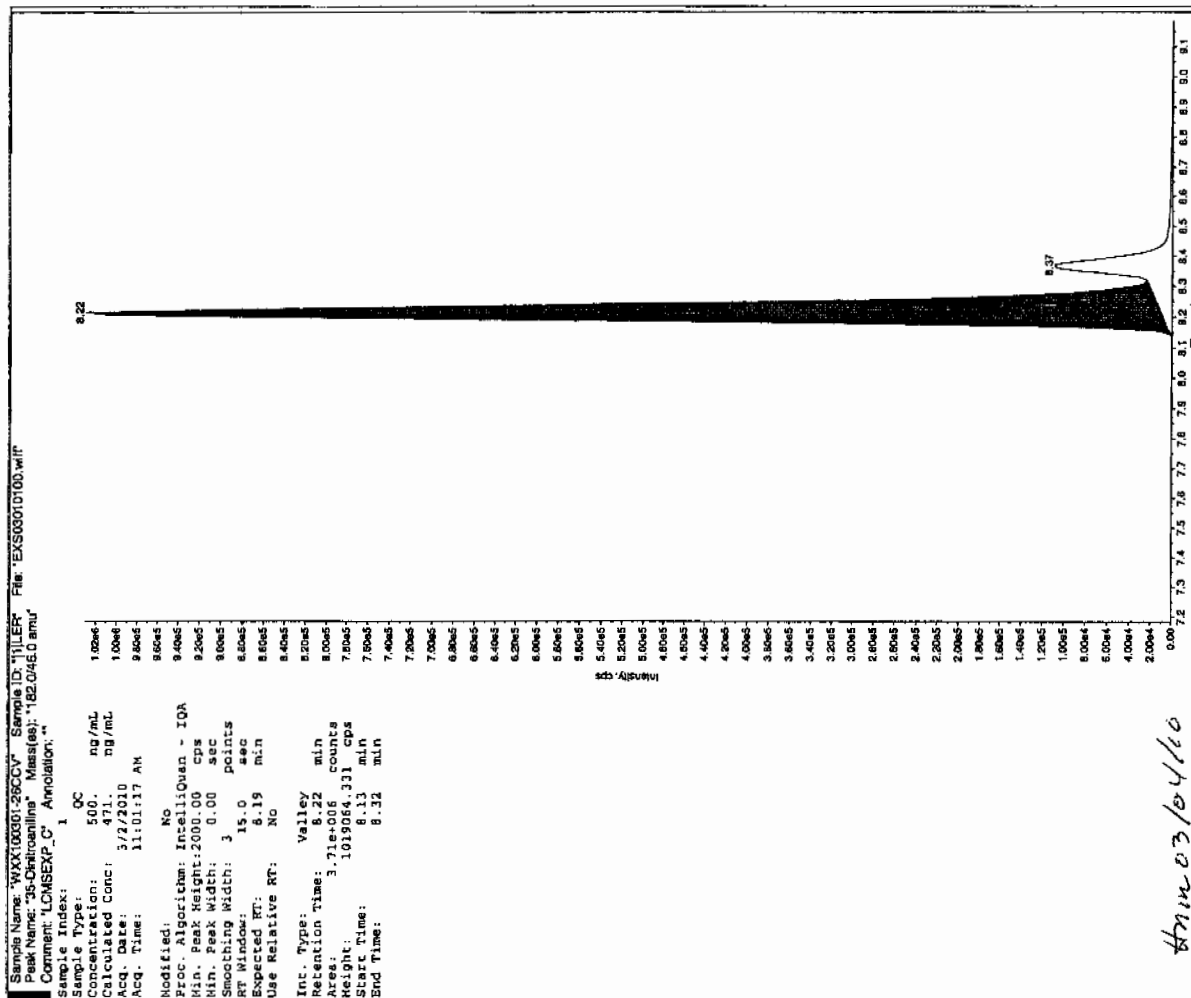
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

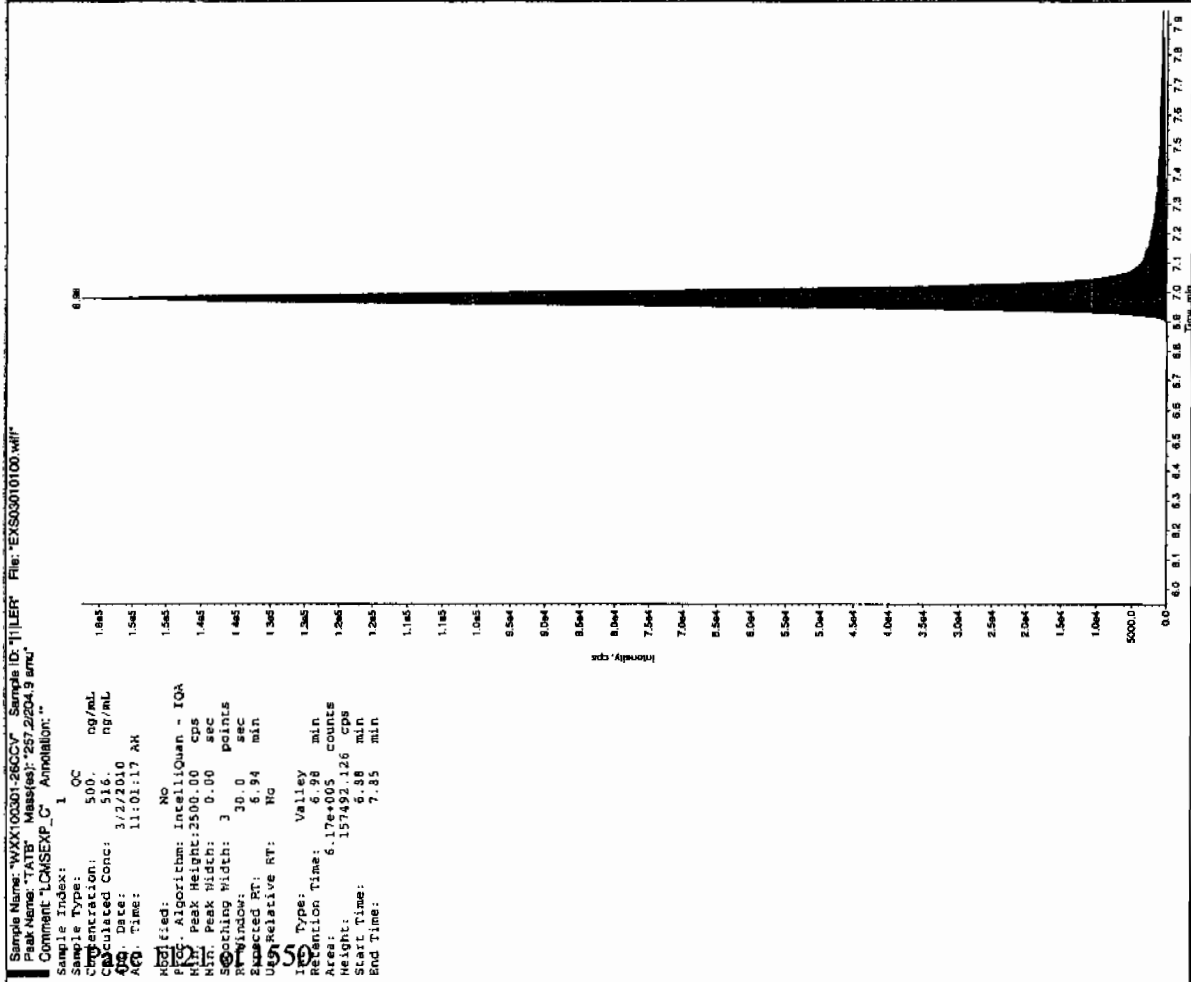
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 31/10

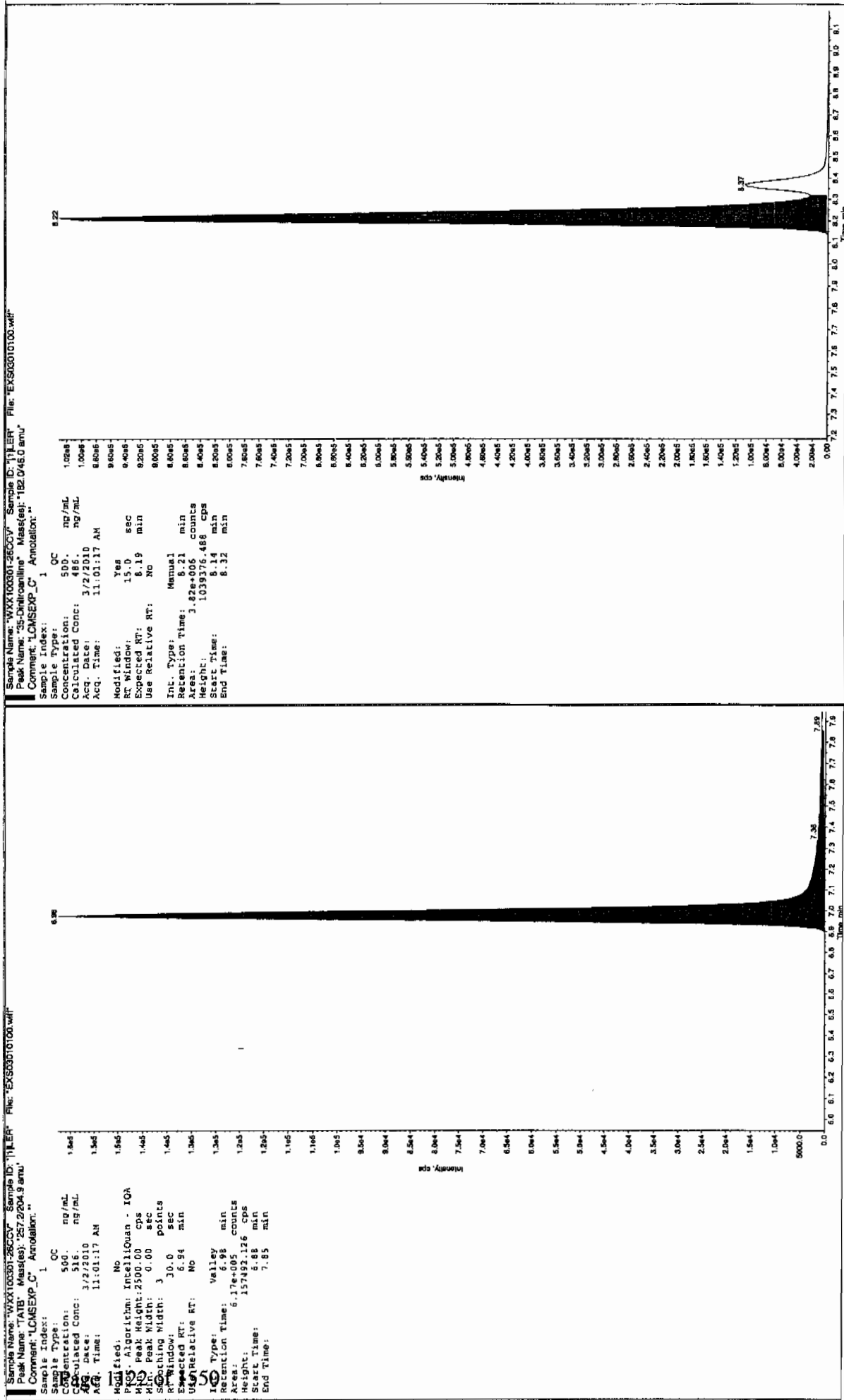


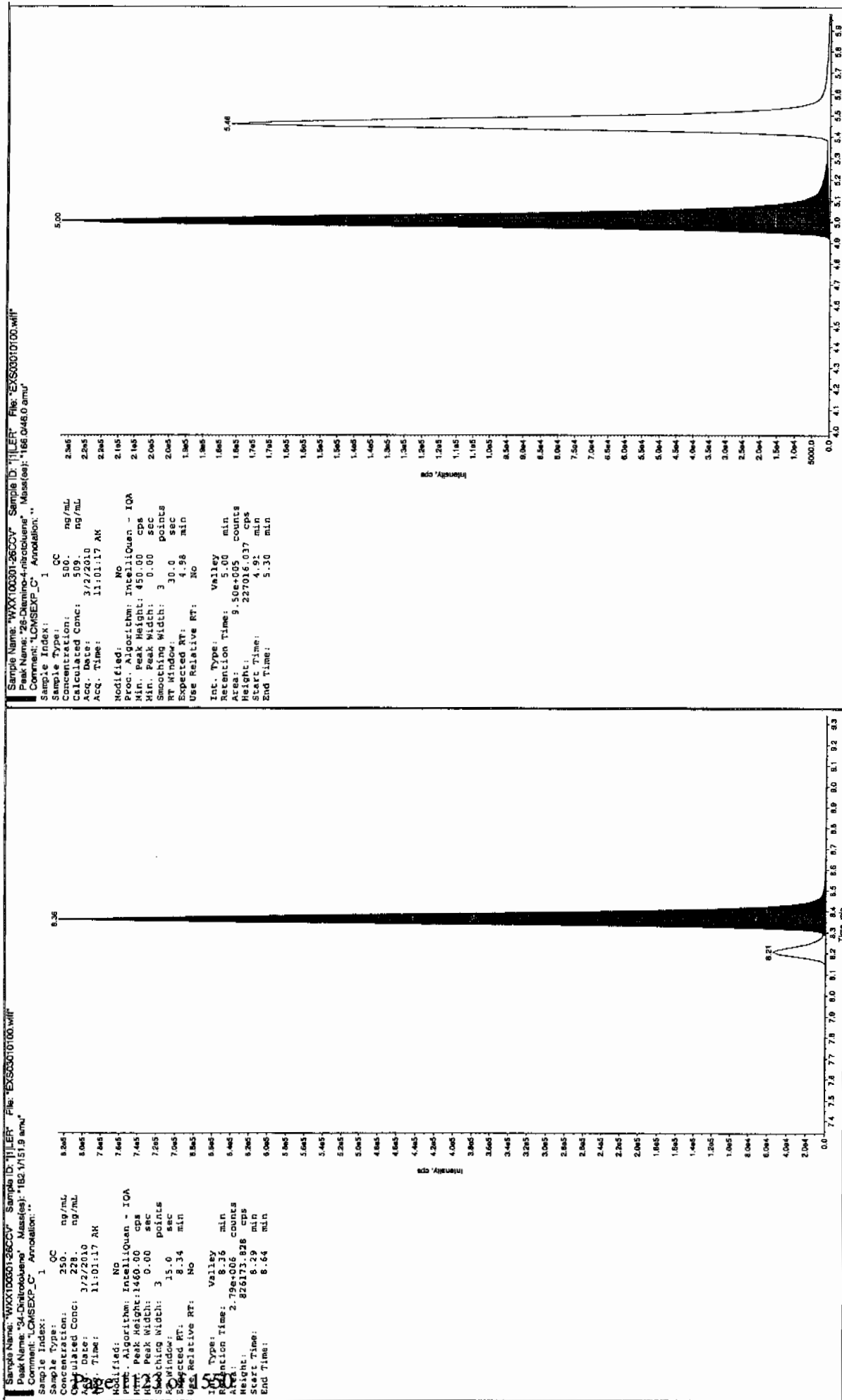
Run 03/04/10

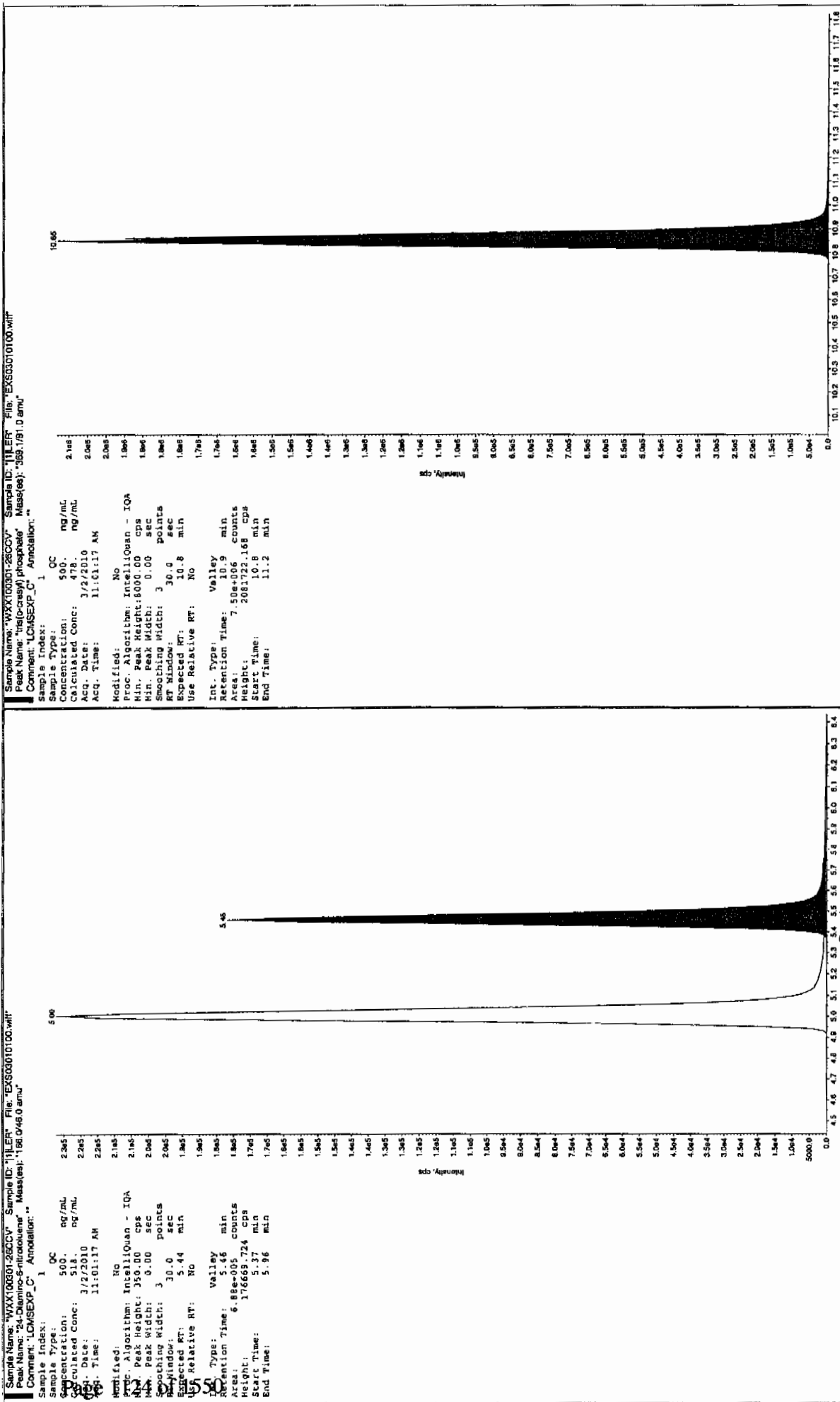


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

after Jan 31/10







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010102.wiff

Analysis Date: 02-MAR-10 11:32

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	50	52.1	104	
3,5-Dinitroaniline	100	94.3	94	
TATB	100	104	104	
tris(o-cresyl) phosphate	100	97	97	
2,4-Diamino-6-nitrotoluene	100	108	108	
2,6-Diamino-4-nitrotoluene	100	106	106	

Recovery Limits:

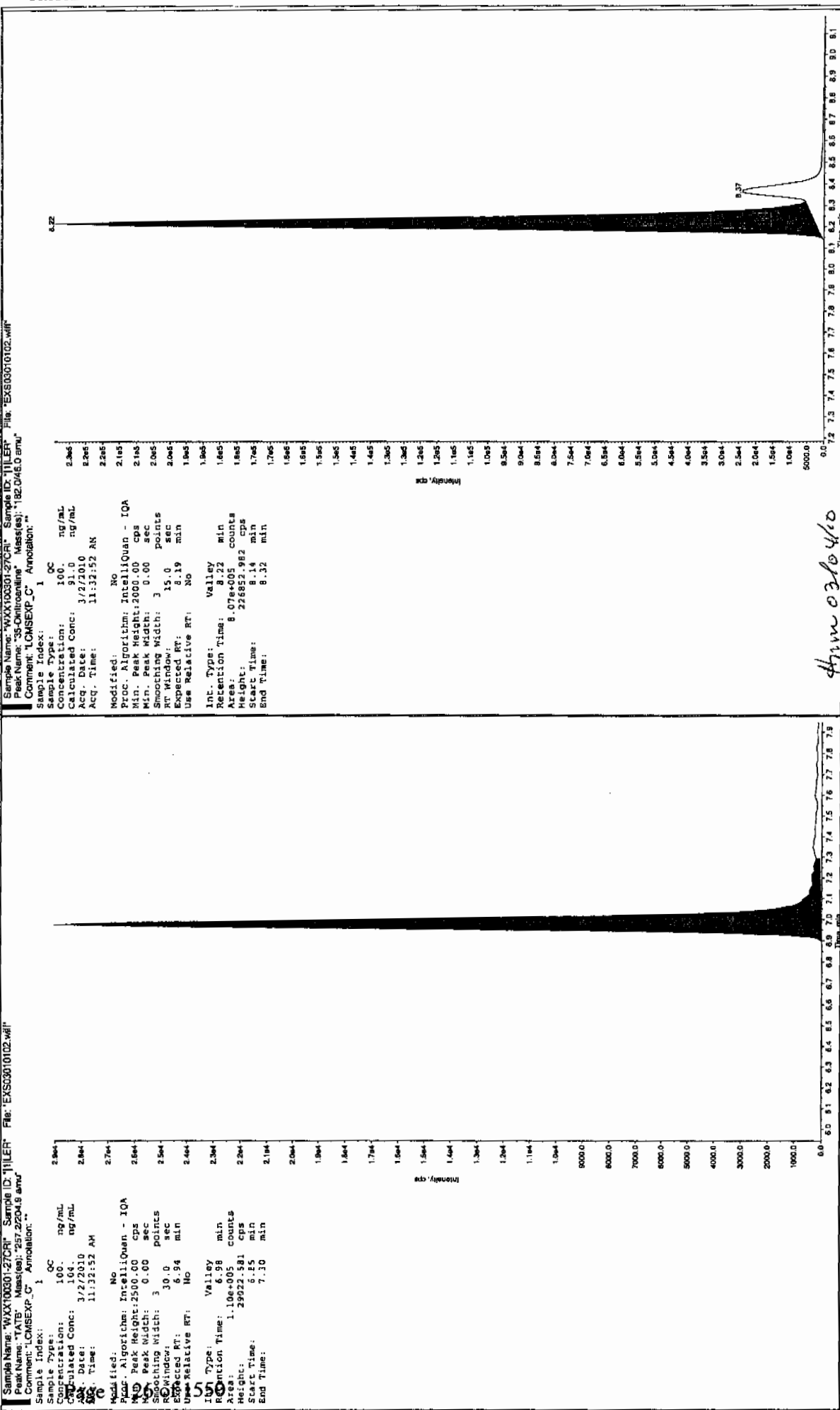
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 3/3/10

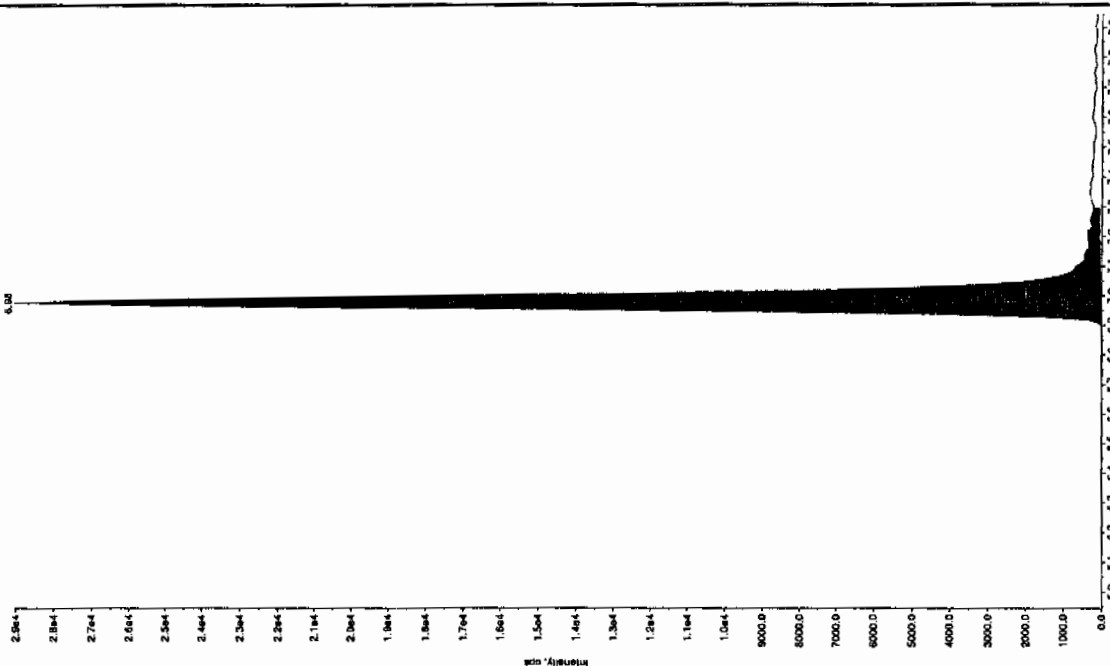


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

01/12/10
WJH

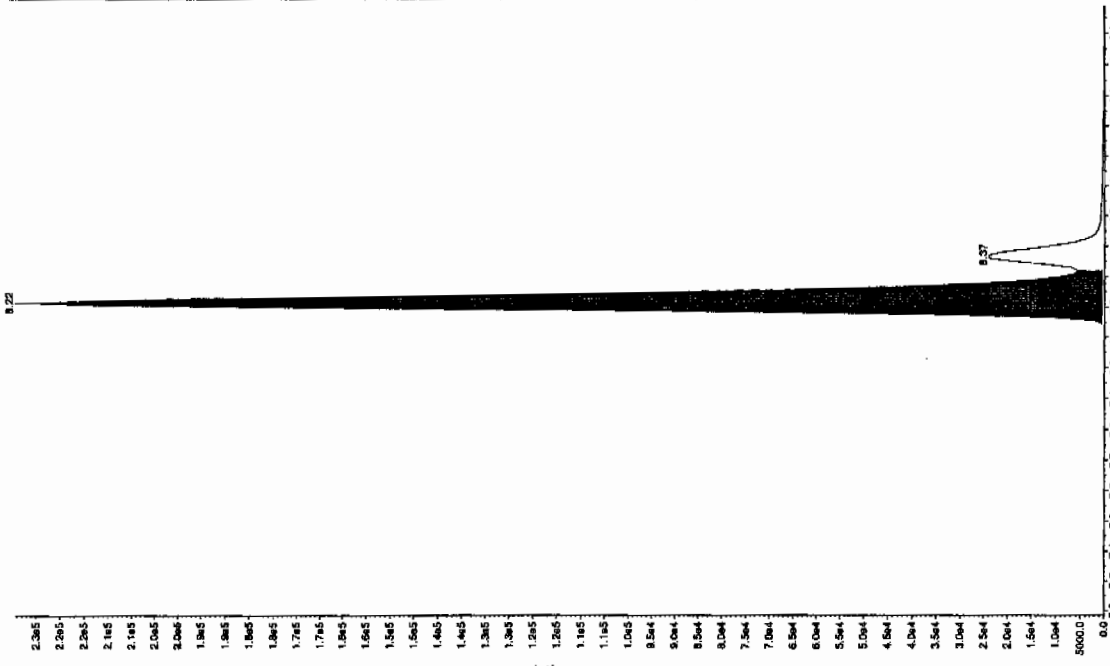
Sample Name: "WXX100301-270R" Sample ID: "J1LER" File: "EXS03010102.wif"
Peak Name: "TATB" Mass(es): "257.2204.9 amu"
Comment: "LCMSEXP_C" Annotation: "

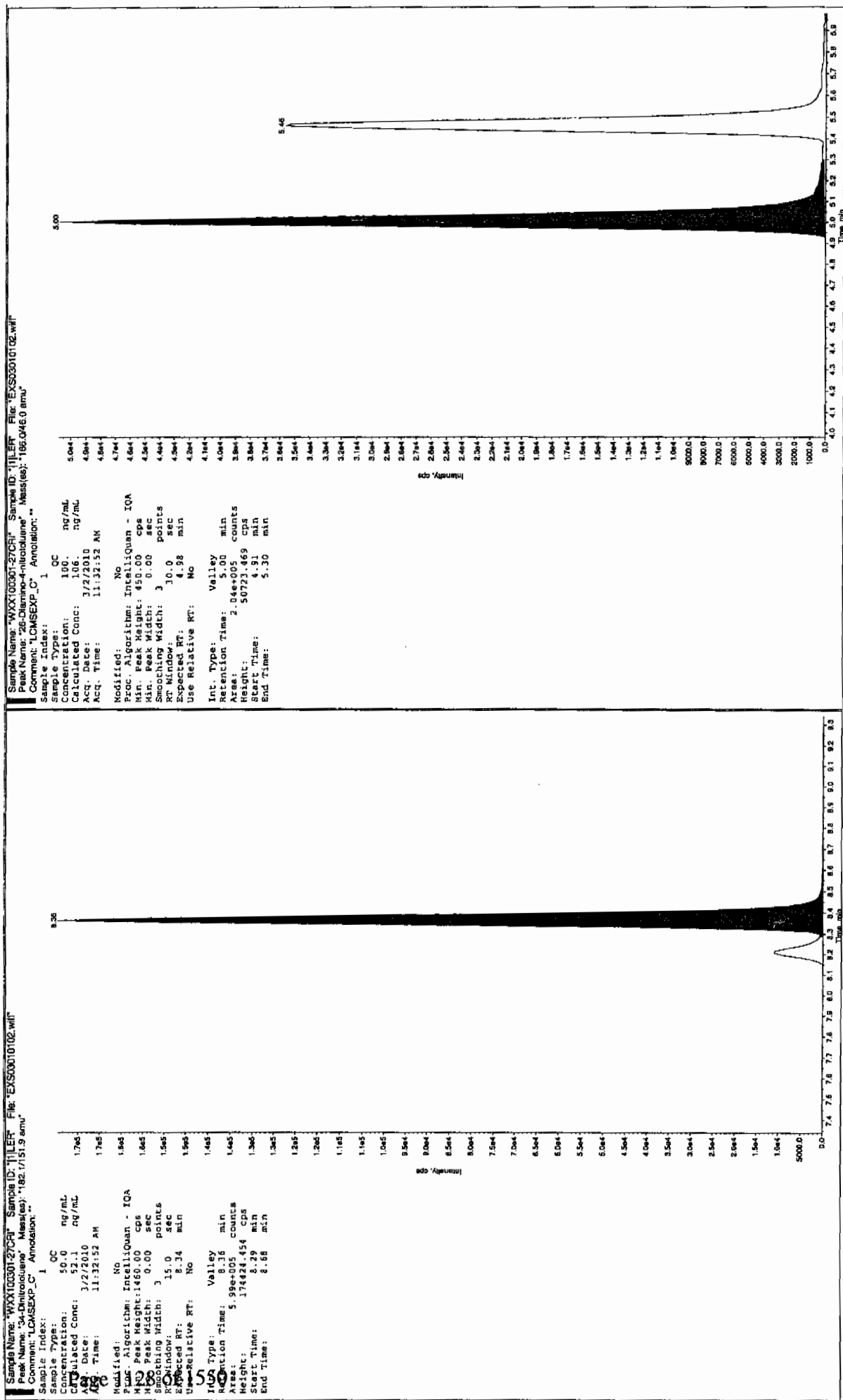
Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 94.3 ng/mL
Acq. Date: 3/2/2010
Acq. Time: 11:12:52 AM
Modified: No
Peak Algorithm: IntelliQuan - IQA
Peak Peak Height: 2500.00 cps
Peak Width: 0.00 sec
Spotting Width: 3 points
R Window: 30.0 sec
Expected RT: 6.94 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 6.98 min
Area: 1.10e+005 counts
Height: 29022.561 cps
Start Time: 6.45 min
End Time: 7.30 min

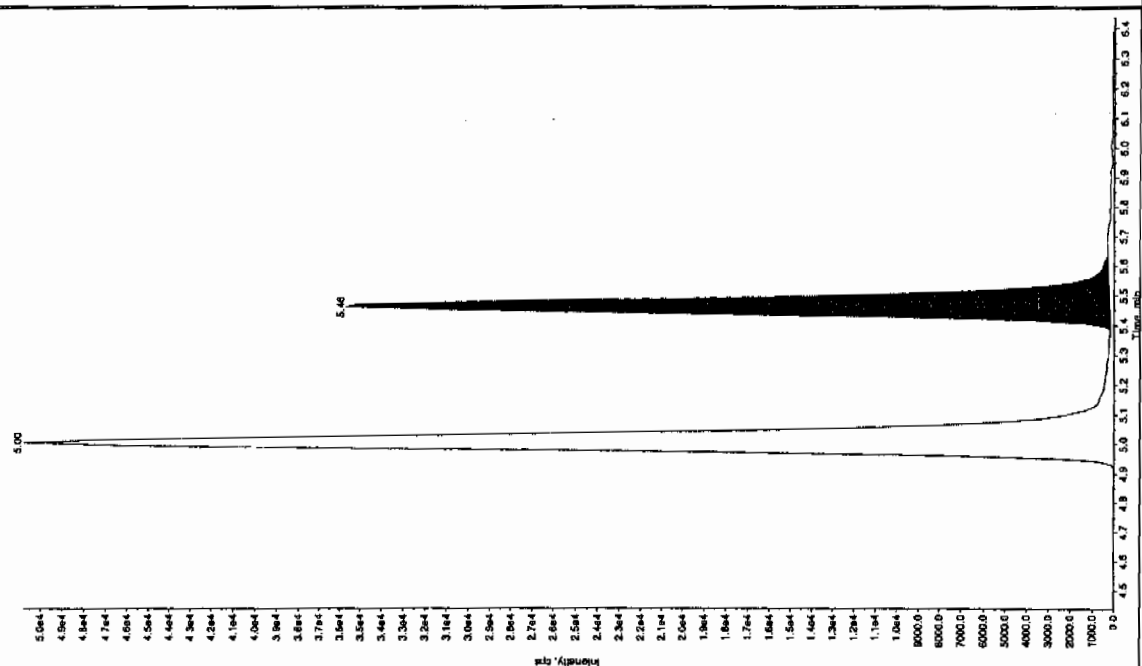


Sample Name: "WXX100301-270R" Sample ID: "J1LER" File: "EXS03010102.wif"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0460 amu"
Comment: "LCMSEXP_C" Annotation: "

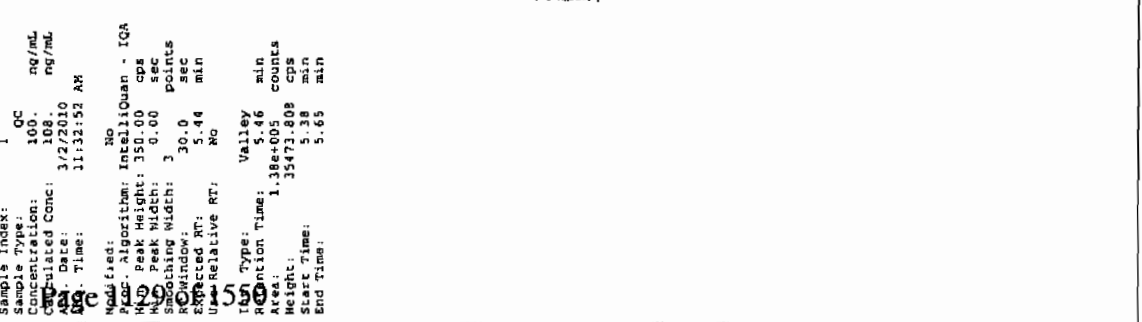
Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 94.3 ng/mL
Acq. Date: 3/2/2010
Acq. Time: 11:12:52 AM
Modified: Yes
RT Window: 15.0 sec
Expected RT: 8.19 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 8.22 min
Area: 8.33e+005 counts
Height: 229043.159 cps
Start Time: 8.14 min
End Time: 8.32 min







Sample Name: "WXX100301-27C.R1" Sample ID: "J1LER" File: "EXS03010102.wiff"
Peak Name: "2,4-Diamino-6-nitrotoluene" Mass(es): "186.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010111.wiff

Analysis Date: 02-MAR-10 13:54

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	583	117	
2,6-Diamino-4-nitrotoluene	500	569	114	
3,4-Dinitrotoluene	250	229	91	
3,5-Dinitroaniline	500	466	93	
TATB	500	461	92	
tris(o-cresyl) phosphate	500	474	95	

Recovery Limits:

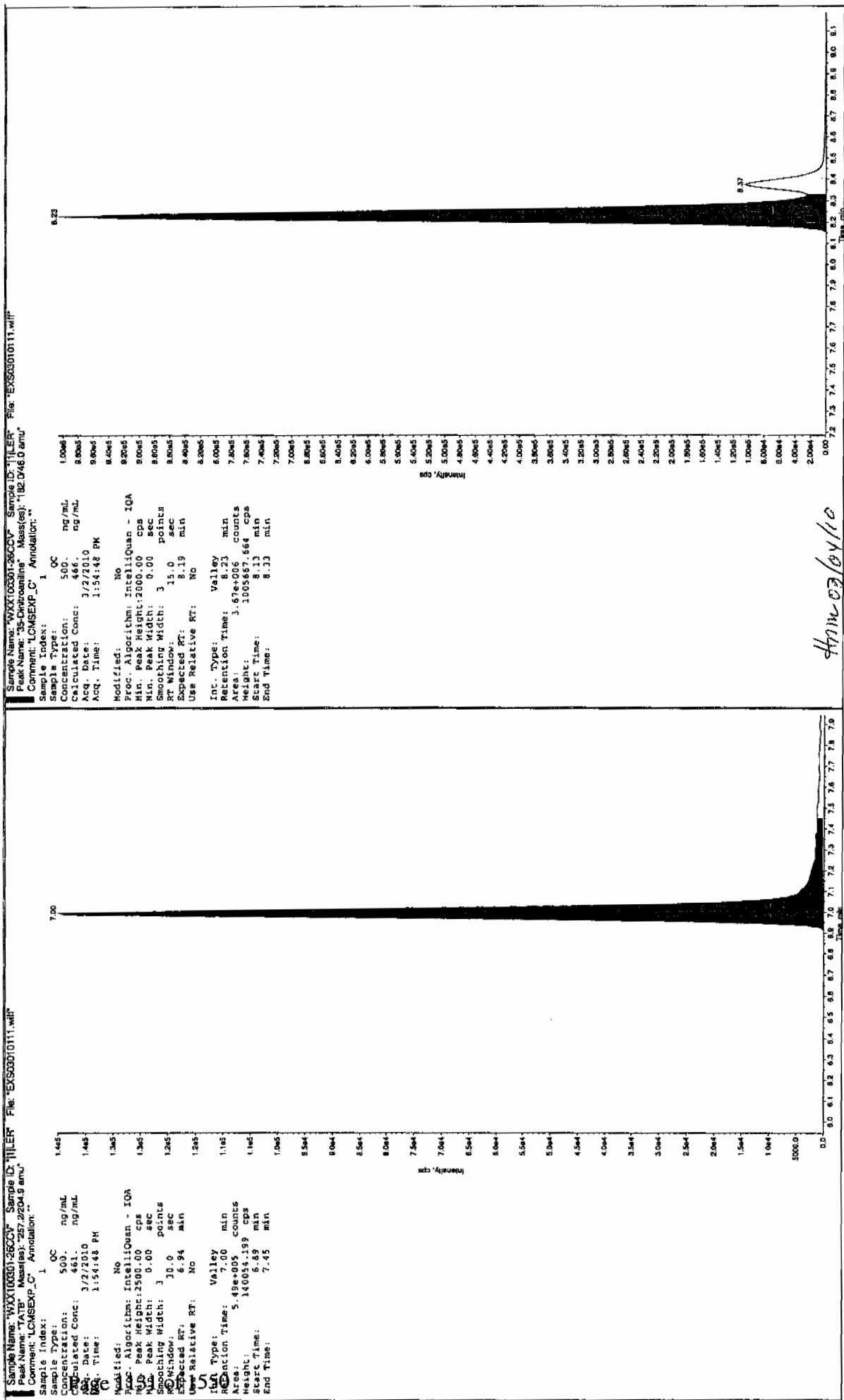
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

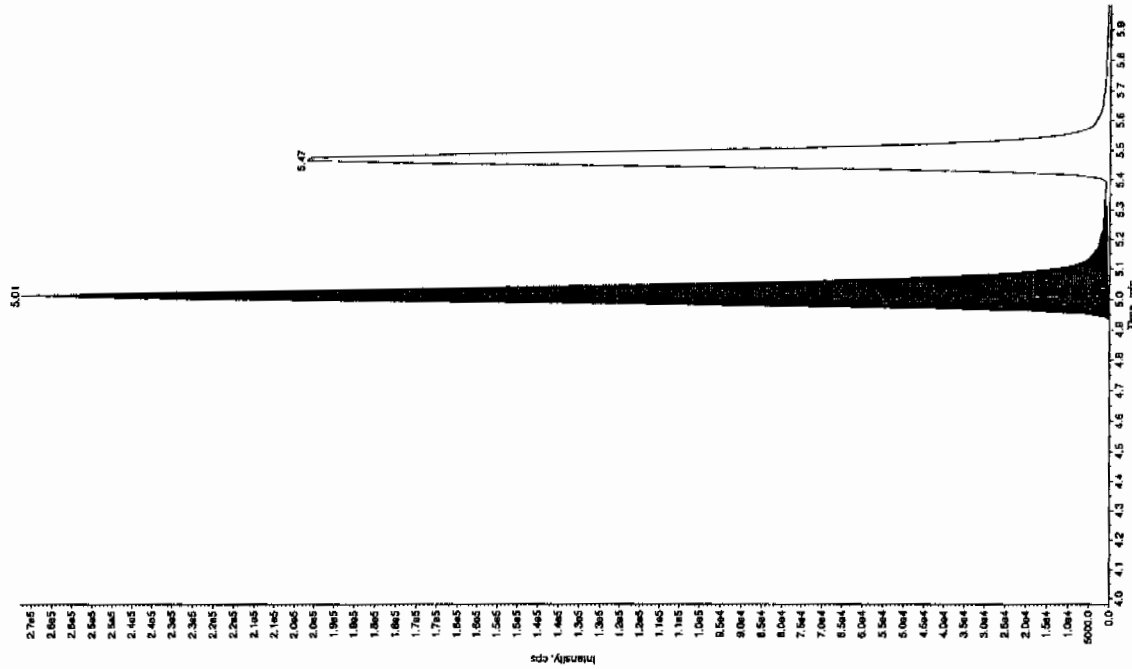
2/12/10



4/10/10

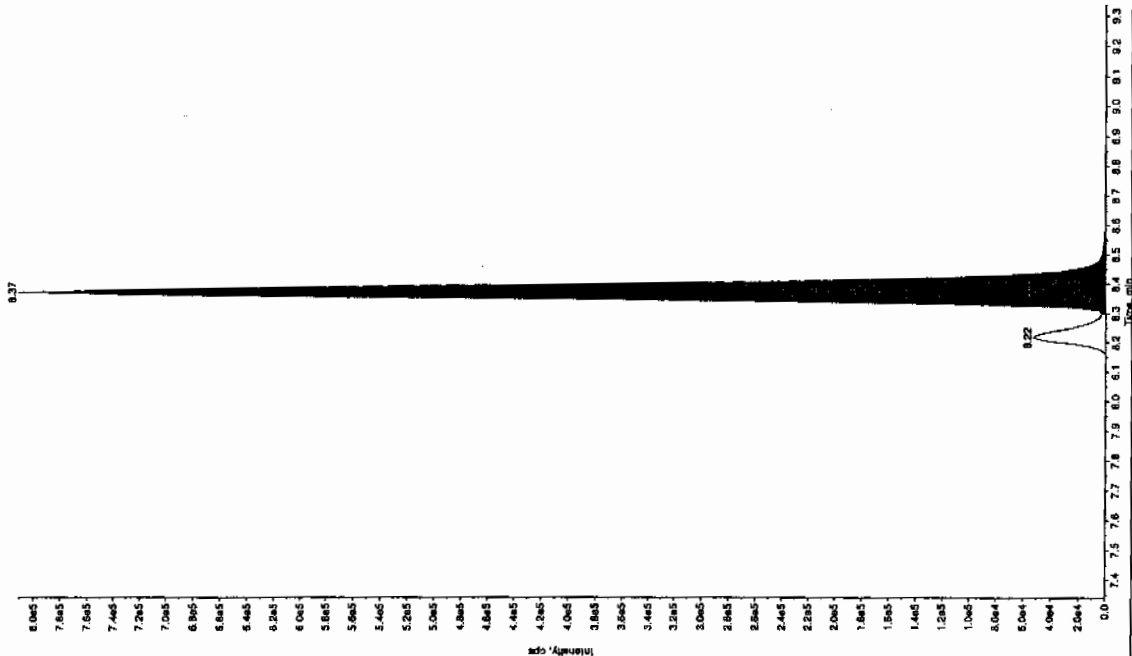
Sample Name: "WXX100301-26C0V" Sample ID: "H1ER" File: "EXS03010111.wif"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "186.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

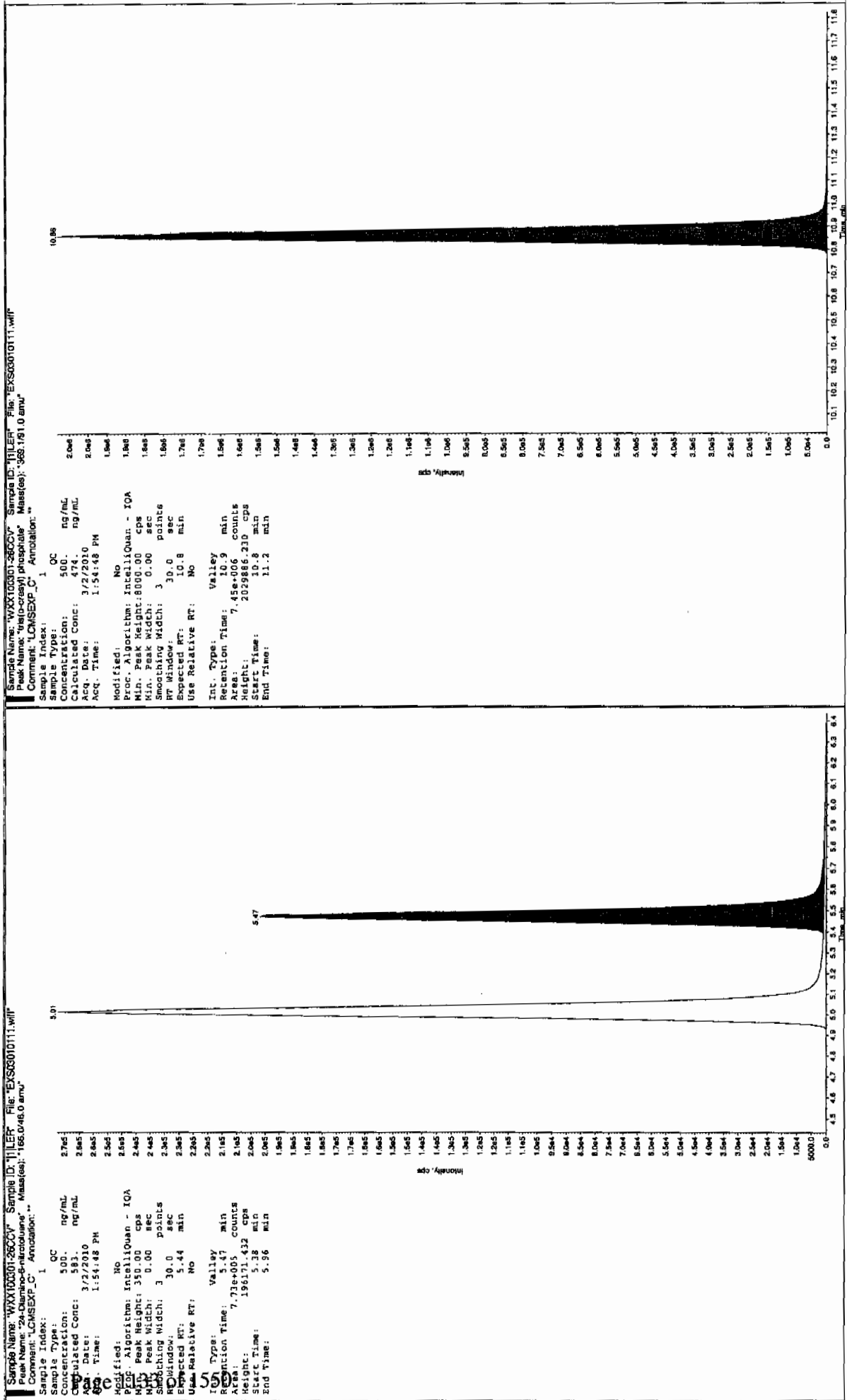
Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 569. ng/mL
 Acq. Date: 3/27/2010
 Acq. Time: 1:54:48 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.98 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.01 min
 Area: 1.06e+006 counts
 Height: 267390.594 cps
 Start Time: 4.92 min
 End Time: 5.31 min



Sample Name: "WXX100301-26C0V" Sample ID: "H1ER" File: "EXS03010111.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.17519 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 250. ng/mL
 Calculated Conc: 229. ng/mL
 Acq. Date: 3/27/2010
 Acq. Time: 1:54:48 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.34 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.37 min
 Area: 2.79e+006 counts
 Height: 509941.589 cps
 Start Time: 8.10 min
 End Time: 8.69 min





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010113.wiff

Analysis Date: 02-MAR-10 14:26

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	118	118	
2,6-Diamino-4-nitrotoluene	100	112	112	
3,4-Dinitrotoluene	50	51	102	
3,5-Dinitroaniline	100	94.3	94	
TATB	100	97.1	97	
tris(o-cresyl) phosphate	100	96.7	97	

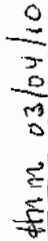
Recovery Limits:

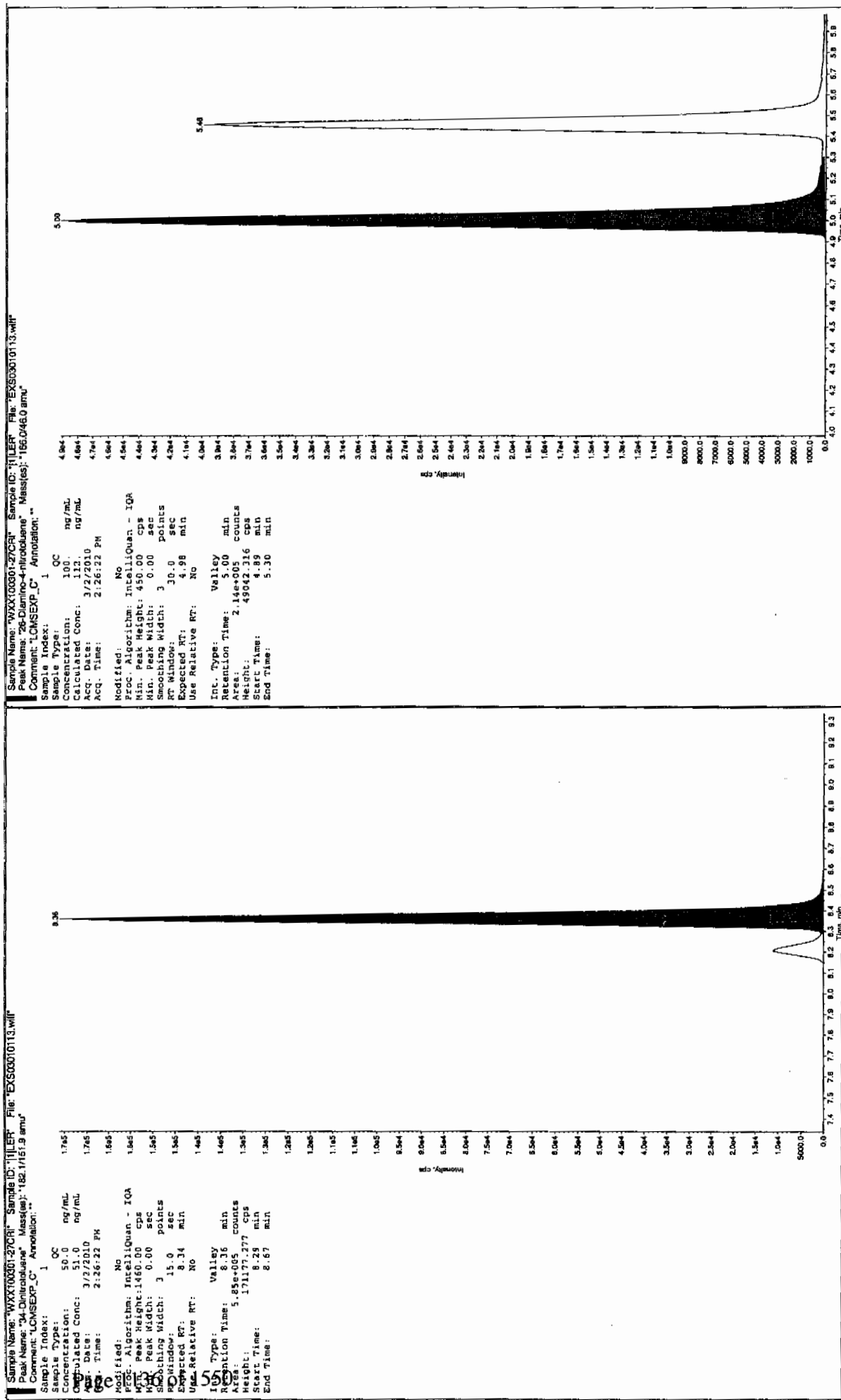
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

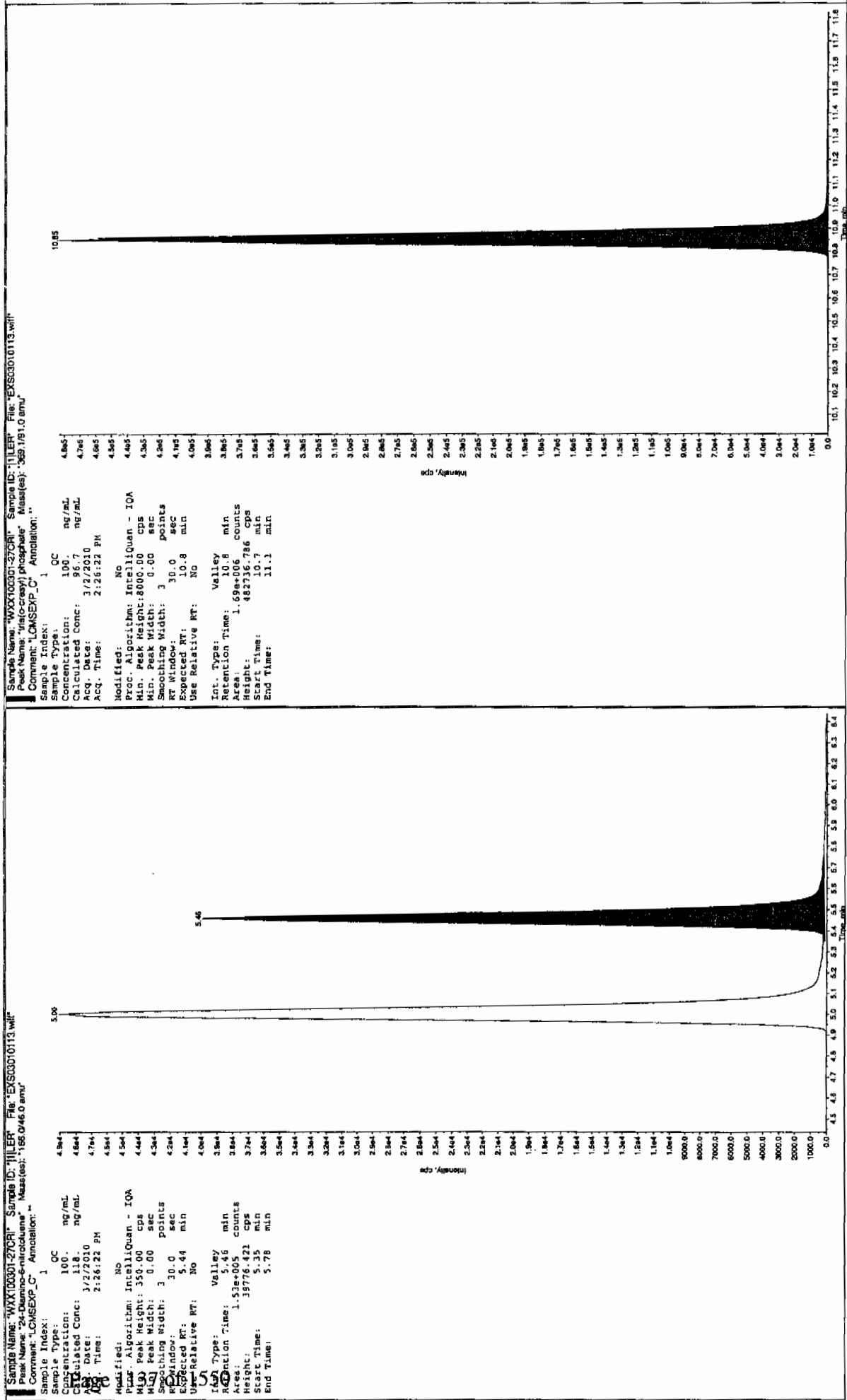
Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits







7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010124.wiff

Analysis Date: 02-MAR-10 17:19

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
tris(o-cresyl) phosphate	500	465	93	
2,4-Diamino-6-nitrotoluene	500	559	112	
2,6-Diamino-4-nitrotoluene	500	572	114	
3,4-Dinitrotoluene	250	238	95	
3,5-Dinitroaniline	500	487	97	
TATB	500	477	95	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Sample Name: "WXX100301-26CCV" Sample ID: "111.ER" File: "EXS03010124.wit"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/45.0 amu"
Comment: "LOWSEXP_C" Annotation: ""

Sample Index: 1

Sample Type:	QC
concentration:	5.00

Concentration:	500.	ng/mL
Calculated Conc:	487.	ng/mL

9.80e5

ccq. Time: 5:19:42 PM 9.8005

Modified: No
9.40e5

Proc.	Algorithm:	IntelliQuan - IQA	NO
1			5.20e5

in. Peak Height: 2000.00 cps

In, Peak Width:	0.00	sec
Smoothing Width:	3	cycles

unobscuring width: 3 points
T Window: 15.0 sec

Expected RT: 8.19 min

use Relative RT: No

nt. Type: Valley

Retention Time: 8.21 min

```

rev: 3.83e+006 counts 7.80e5

```

```

weight: 1010574.011 cps
cycle time: 8.10 min
7.60e5

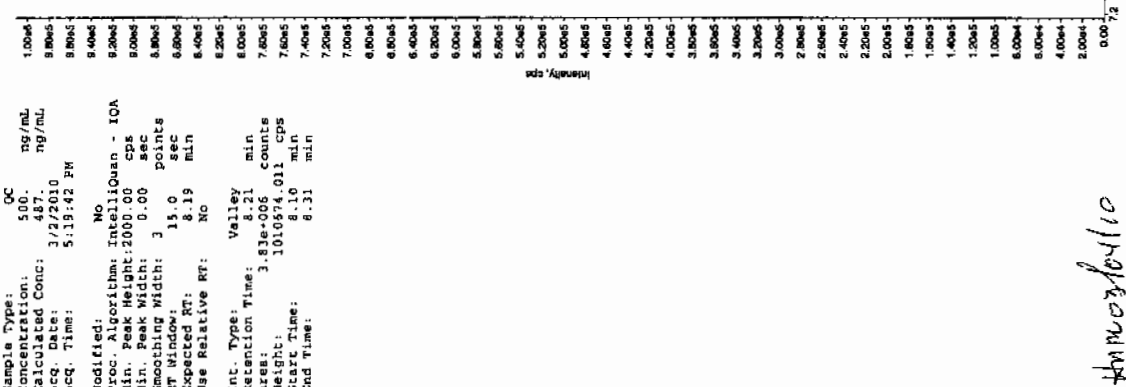
```

End Time:	0.31	min
7.40ms		

7.2025

7.00e5

6,80e5



Sample Name: "WX100301-250CV" Sample ID: "11LER" File: "EXS00010124.will"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1

Sample Type: QC
 Penetration: 500.

Concentration:	360.	ng/l
Calculated Conc:	477.	ng/l

Date: 3/2/2010

Time: 5:19:42 PM

Notified: _____ No _____

Proc. Algorithm: Intelligence -

Peak Height: 2500.00 cps
Peak Width: 0.00 sec

FWHM: Peak Width: 0.00 sec
Smoothing Width: 3 points

Window: 30.0 sec

Expected AT, min	6.94 min
100	100
90	90
80	80
70	70
60	60
50	50
40	40
30	30
20	20
10	10
0	0

Relative RT: NO

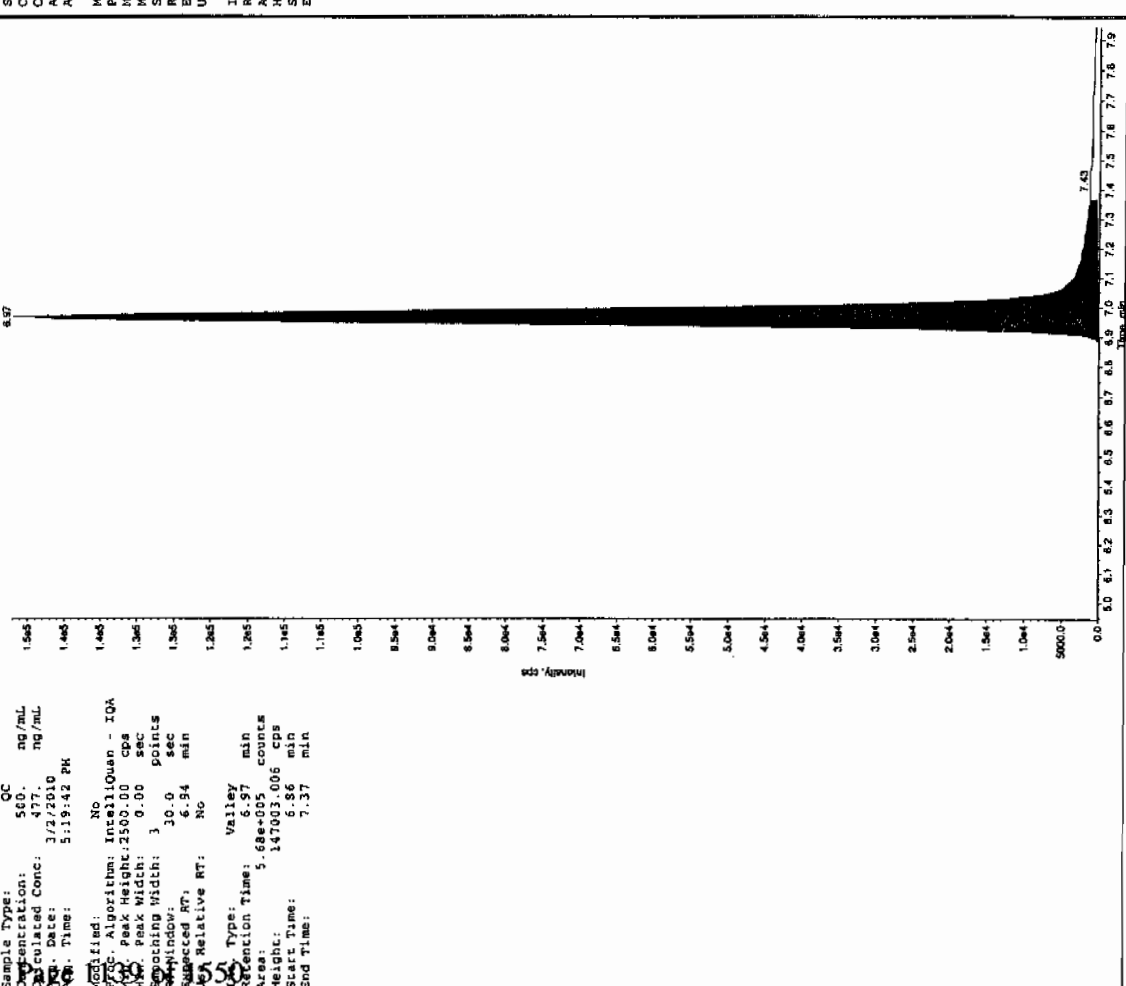
55 Type: Valley

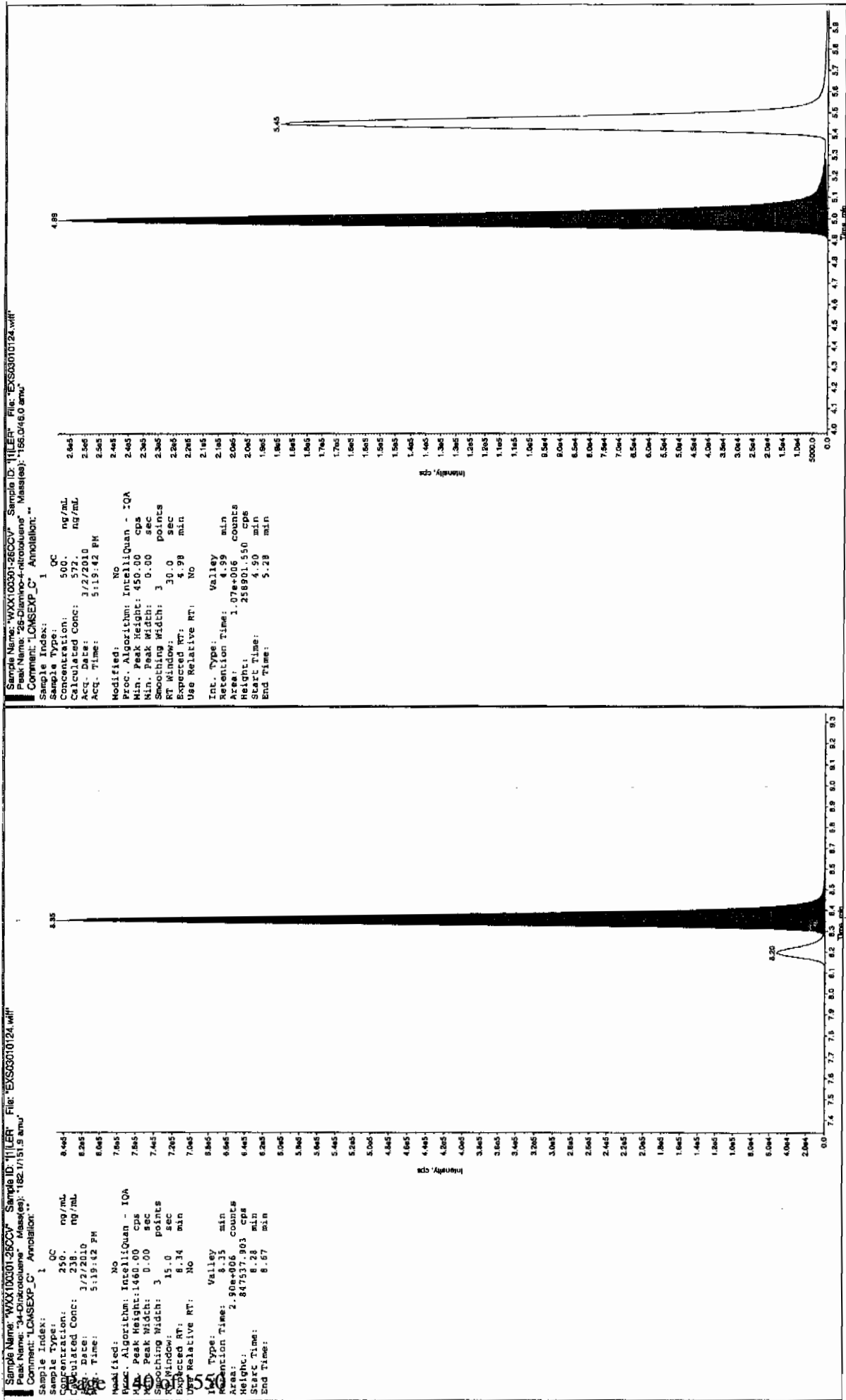
Retention Time: 6.97 min

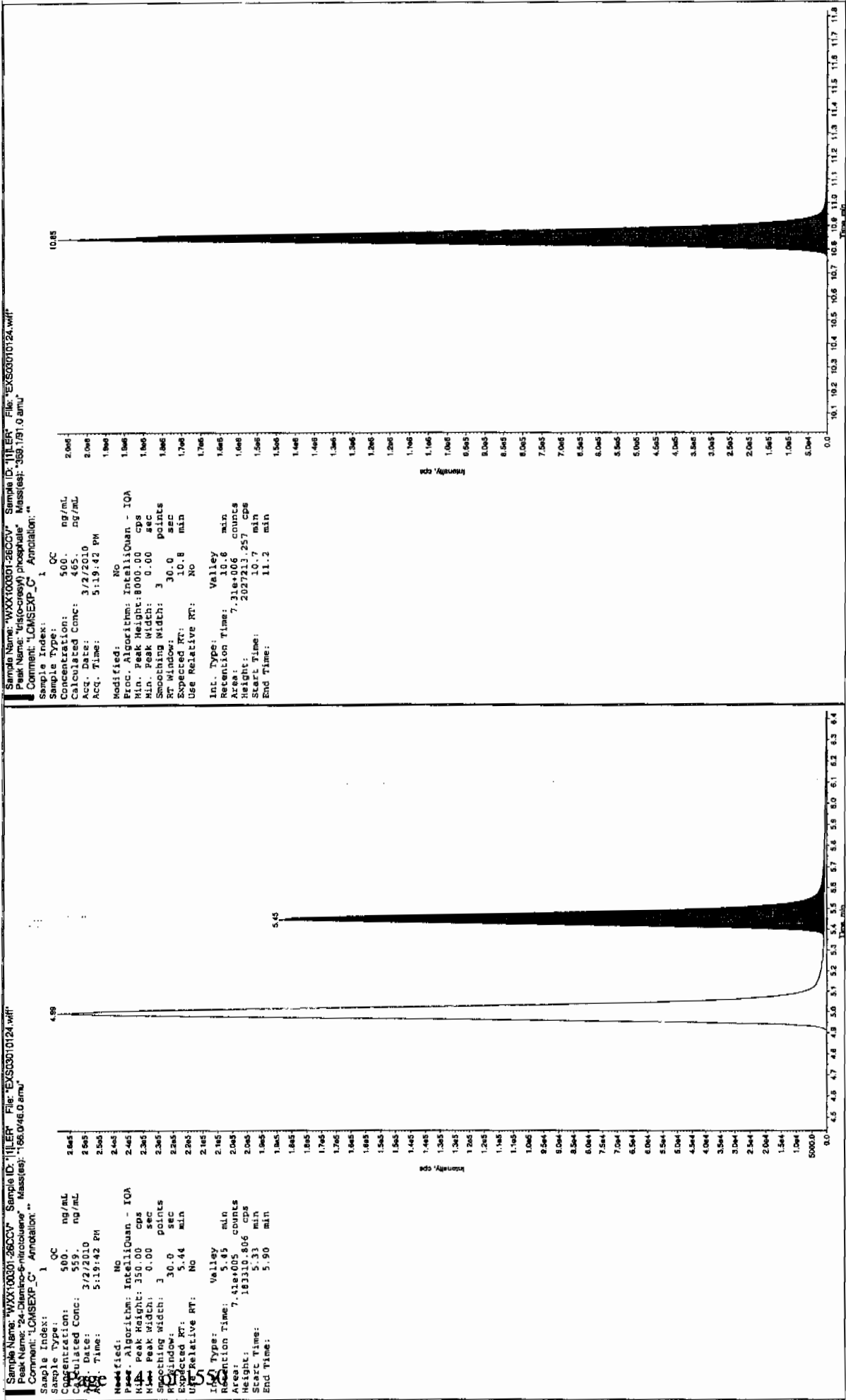
```
Area: 5.68e+005 count
Weight: 147003.006 cps
```

Weight: 247003.000 cps
Scan Time: 6.36 min

End Time: 7.37 min







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010126.wiff

Analysis Date: 02-MAR-10 17:51

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	123	123	
2,6-Diamino-4-nitrotoluene	100	119	119	
3,4-Dinitrotoluene	50	51.2	102	
3,5-Dinitroaniline	100	90.6	91	
TATB	100	96.8	97	
tris(o-cresyl) phosphate	100	95	95	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

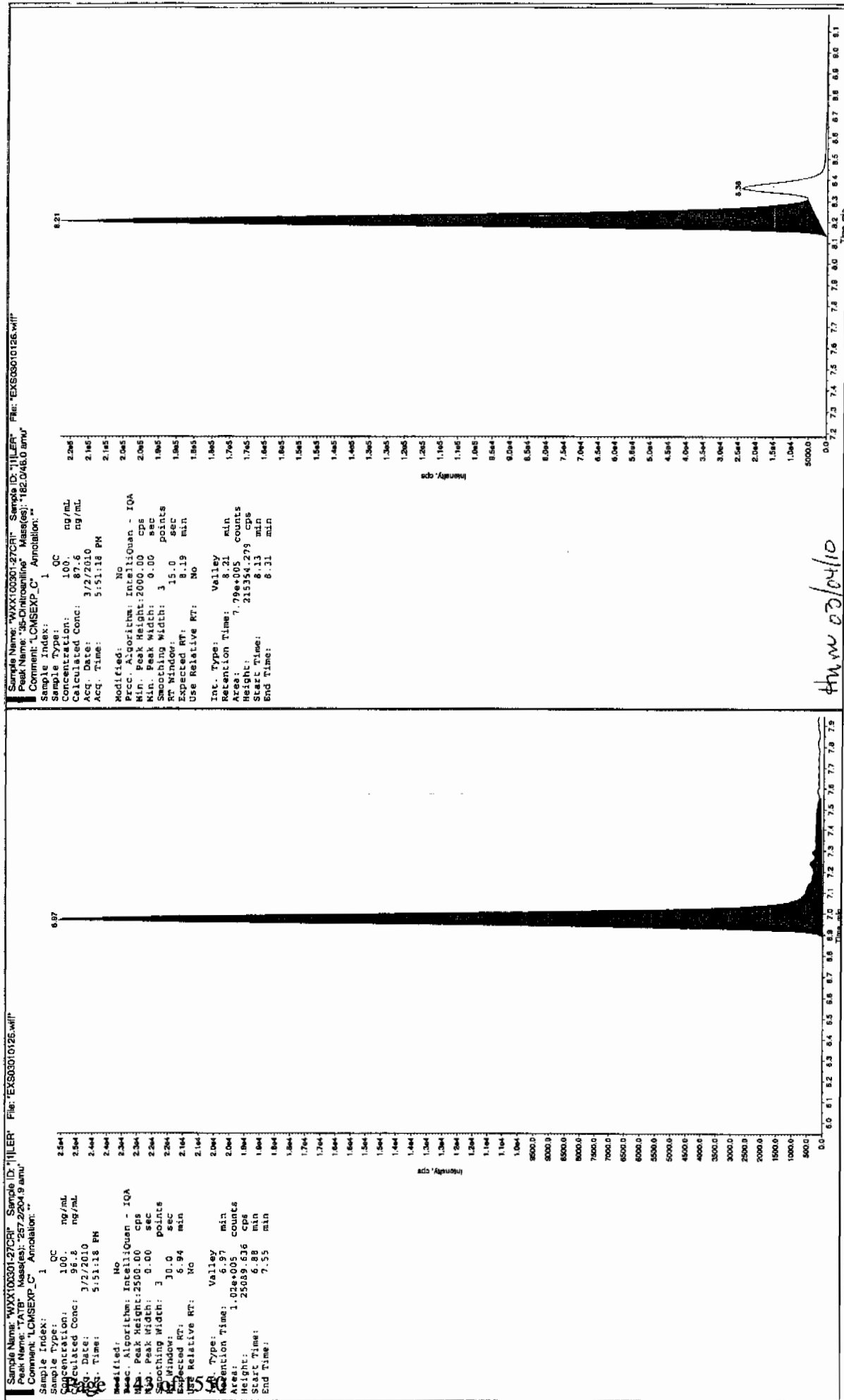
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 31/10



Sample Name: "WXX100301-27C.R" Sample ID: "JLIER" File: "EX903010125.wif"
 Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 98.8 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 5:51:18 PM

Modified: No
 Recv. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 6.94 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 6.97 min
 Area: 1.02e+005 counts
 Height: 25039.636 cps
 Start Time: 6.88 min
 End Time: 7.55 min

Sample Name: "WXX100301-27C.R" Sample ID: "JLIER" File: "EX903010125.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.0/180.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

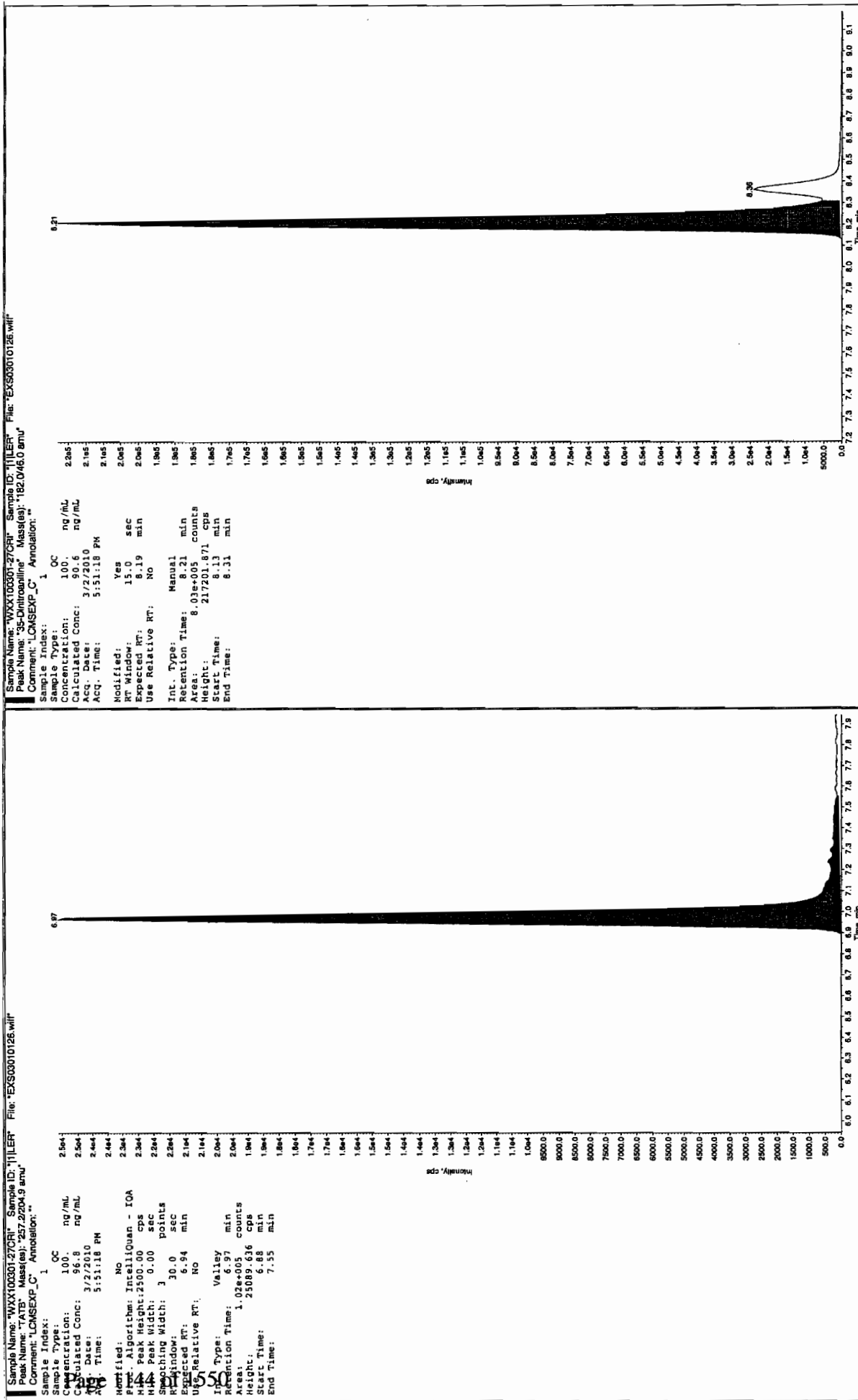
Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 87.6 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 5:51:18 PM

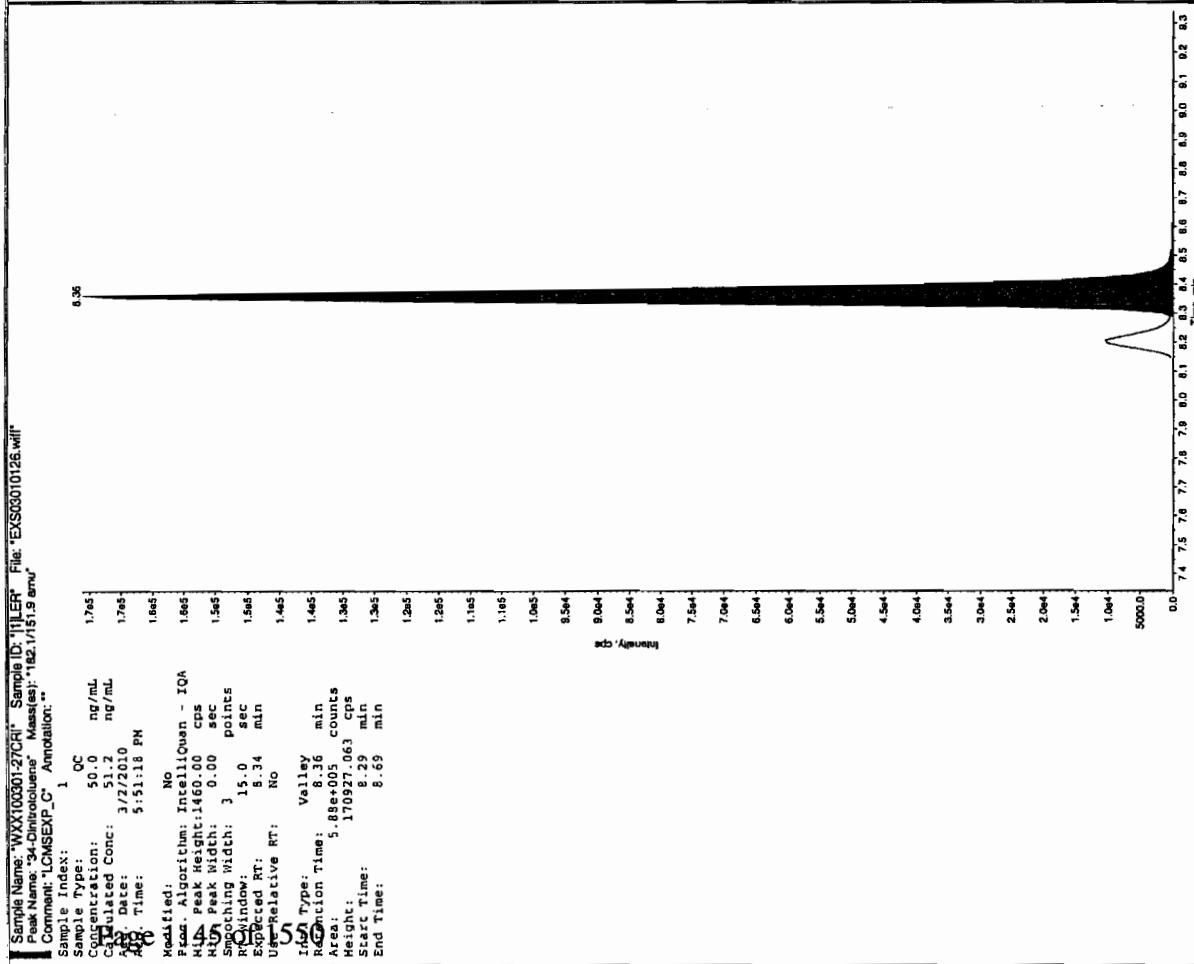
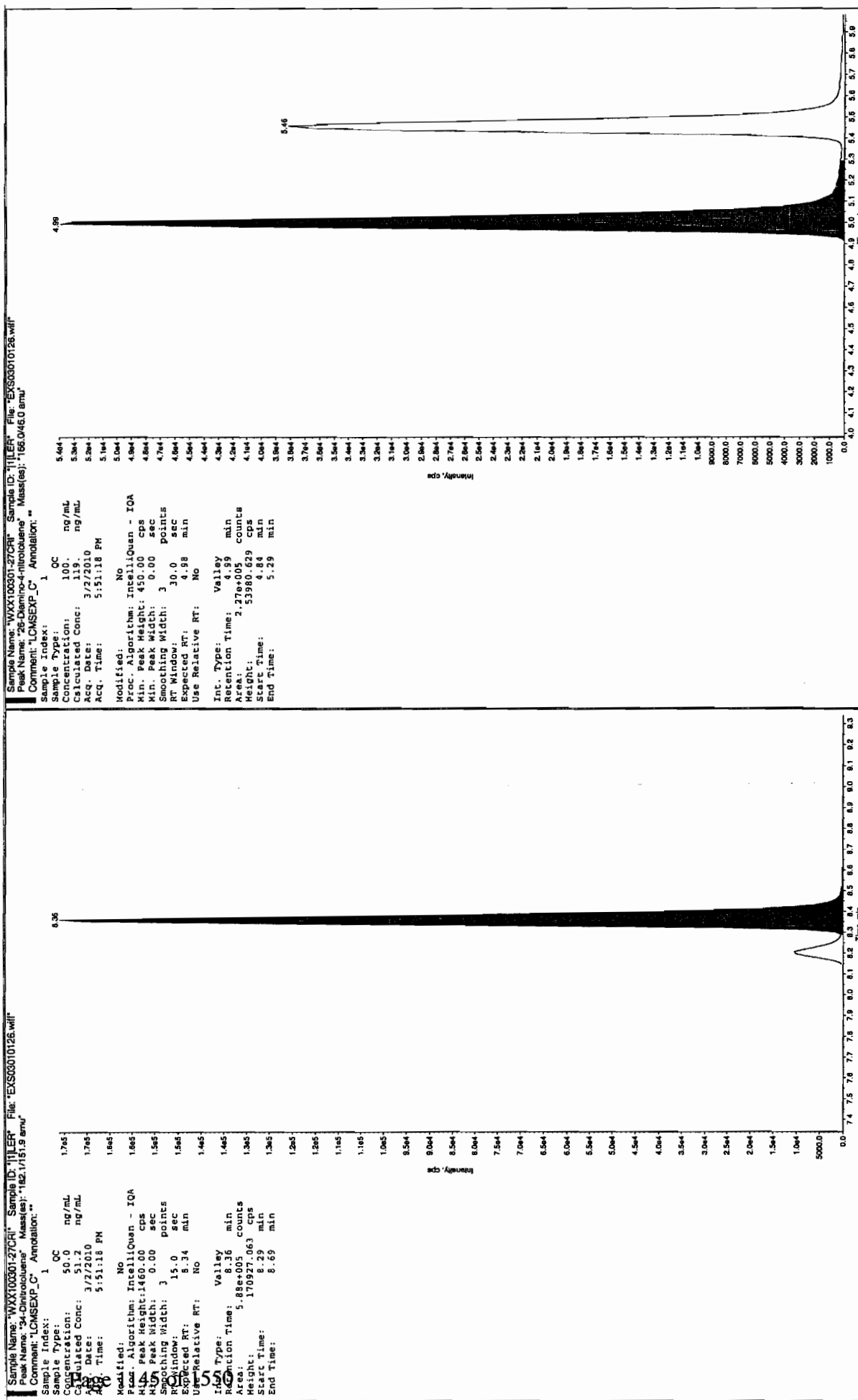
Modified: No
 Recv. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 8.19 min
 Use Relative RT: No

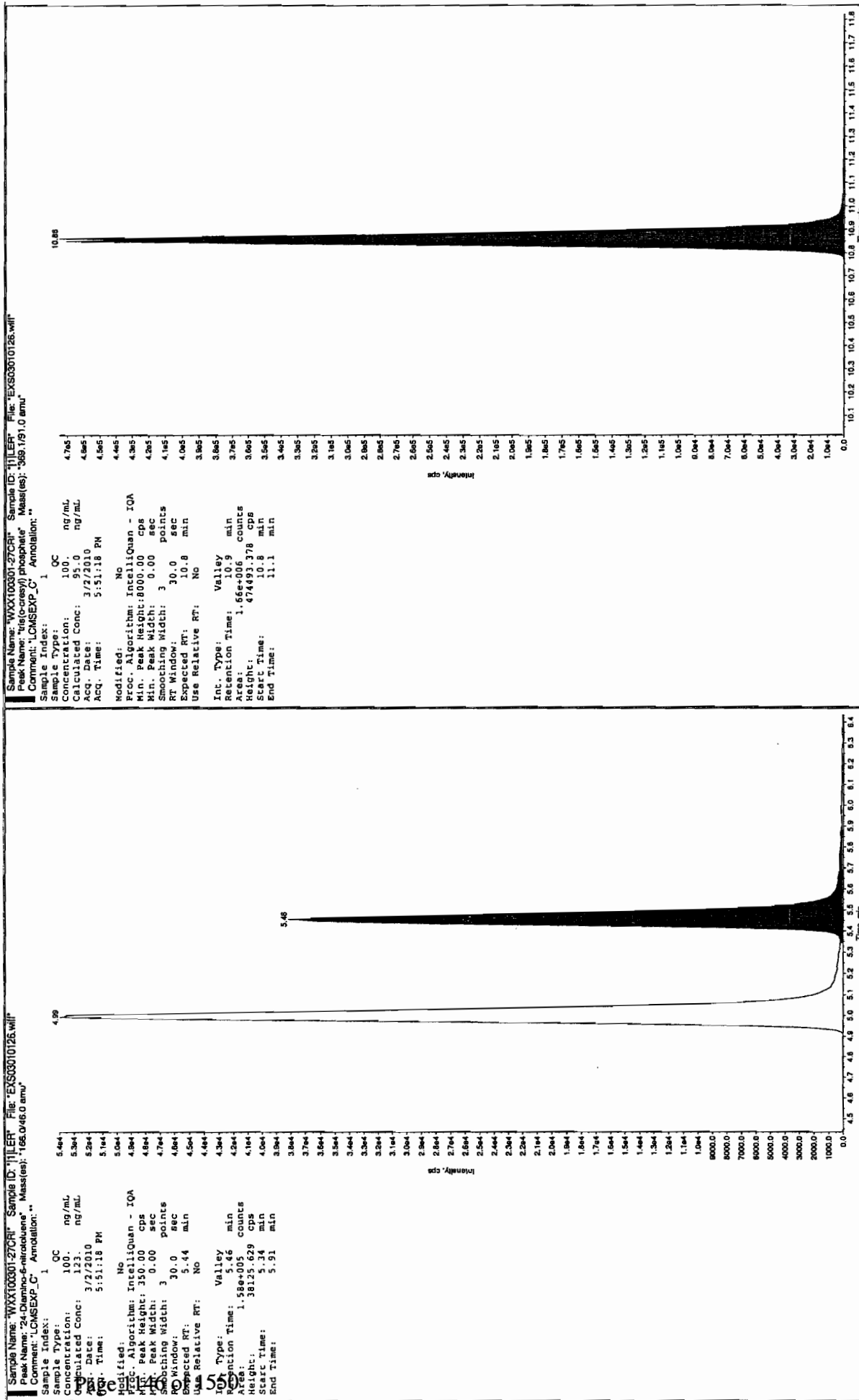
Int. Type: Valley
 Retention Time: 8.21 min
 Area: 7.79e+005 counts
 Height: 215354.279 cps
 Start Time: 8.13 min
 End Time: 8.31 min

thw 03/04/10

off for 3/3/10







7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010137.wiff

Analysis Date: 02-MAR-10 20:44

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	623	125	
2,6-Diamino-4-nitrotoluene	500	615	123	
3,4-Dinitrotoluene	250	235	94	
3,5-Dinitroaniline	500	488	98	
TATB	500	484	97	
tris(o-cresyl) phosphate	500	481	96	

Recovery Limits:

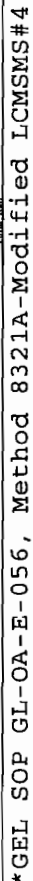
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

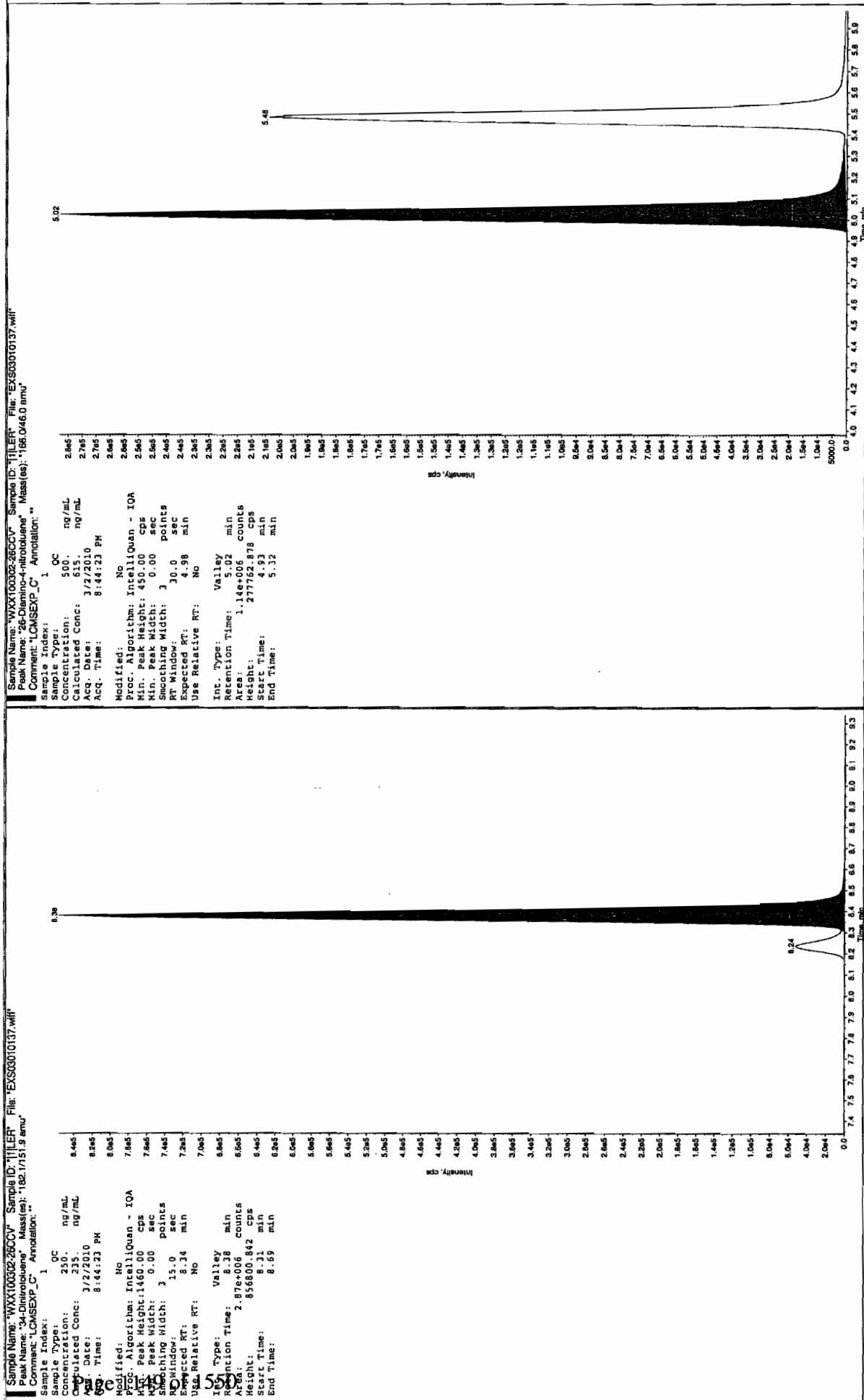
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCM SMS#4

Sample Name: "WXX100302-26CCV" Sample ID: "J1LER" File: "EXS0010137.wif"

Peak Name: "24-Diamino-6-nitrofolate" Mass(es): "369.191.0 amu"

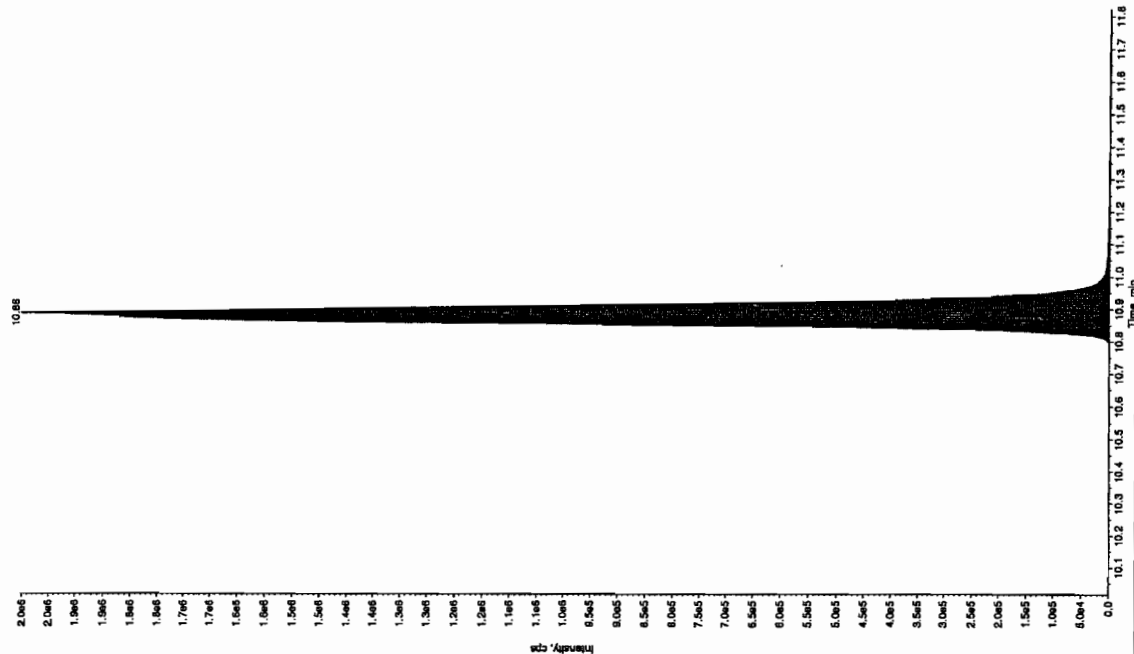
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: OC
Concentration: 500 ng/mL
Calculated Conc: 481 ng/mL
Acq. Date: 3/2/2010
Acq. Time: 8:44:23 PM

Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 8000.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 10.8 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 10.9 min
Height: 7.54e+006 counts
Start Time: 2002495.728 cps
End Time: 11.2 min



Sample Name: "WXX100302-26CCV" Sample ID: "J1LER" File: "EXS0010137.wif"

Peak Name: "24-Diamino-6-nitrofolate" Mass(es): "166.046.0 amu"

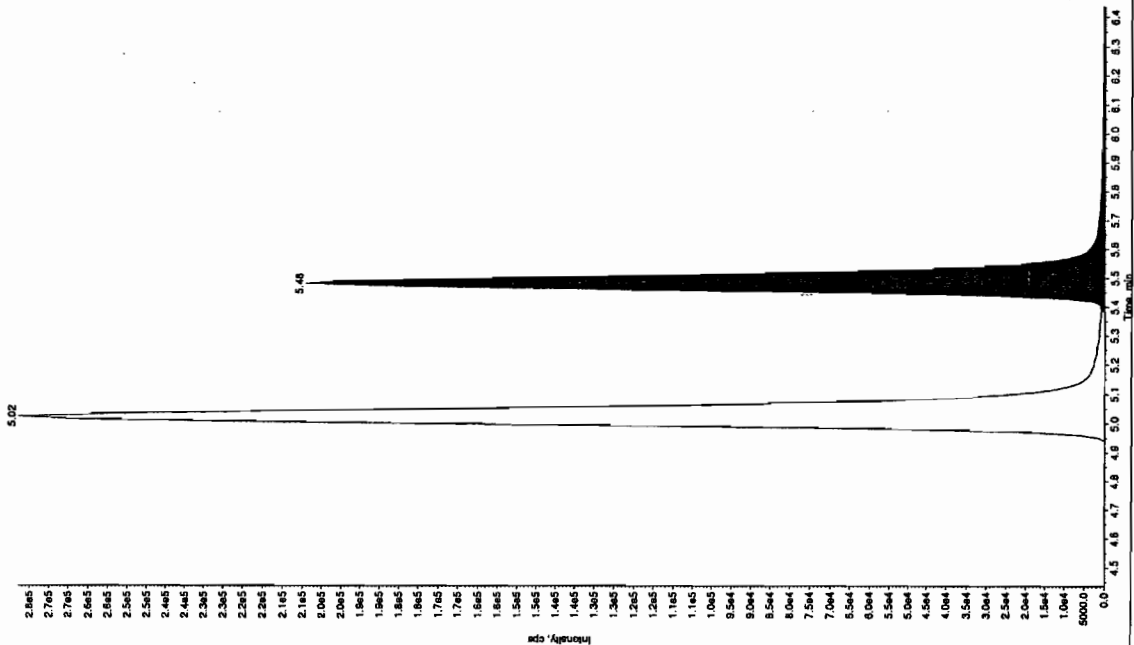
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: OC
Concentration: 500 ng/mL
Calculated Conc: 623 ng/mL
Acq. Date: 3/2/2010
Acq. Time: 8:44:23 PM

Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 350.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 5.44 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.48 min
Height: 8.25e+005 counts
Start Time: 203926.224 cps
End Time: 6.21 min



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010139.wiff

Analysis Date: 02-MAR-10 21:15

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	130	130	
2,6-Diamino-4-nitrotoluene	100	124	124	
3,4-Dinitrotoluene	50	51.6	103	
3,5-Dinitroaniline	100	93.5	94	
TATB	100	99.9	100	
tris(o-cresyl) phosphate	100	99	99	

Recovery Limits:

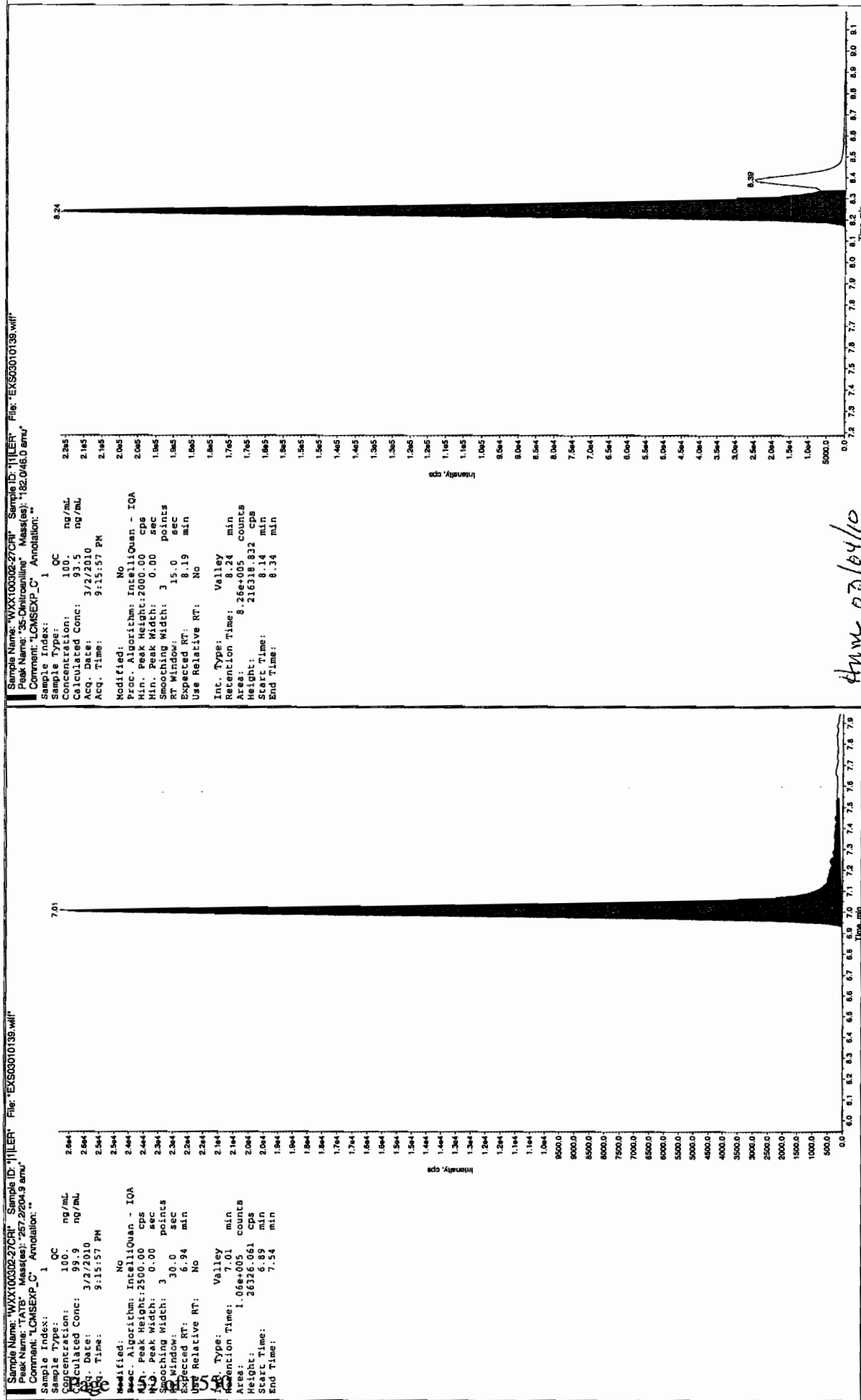
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

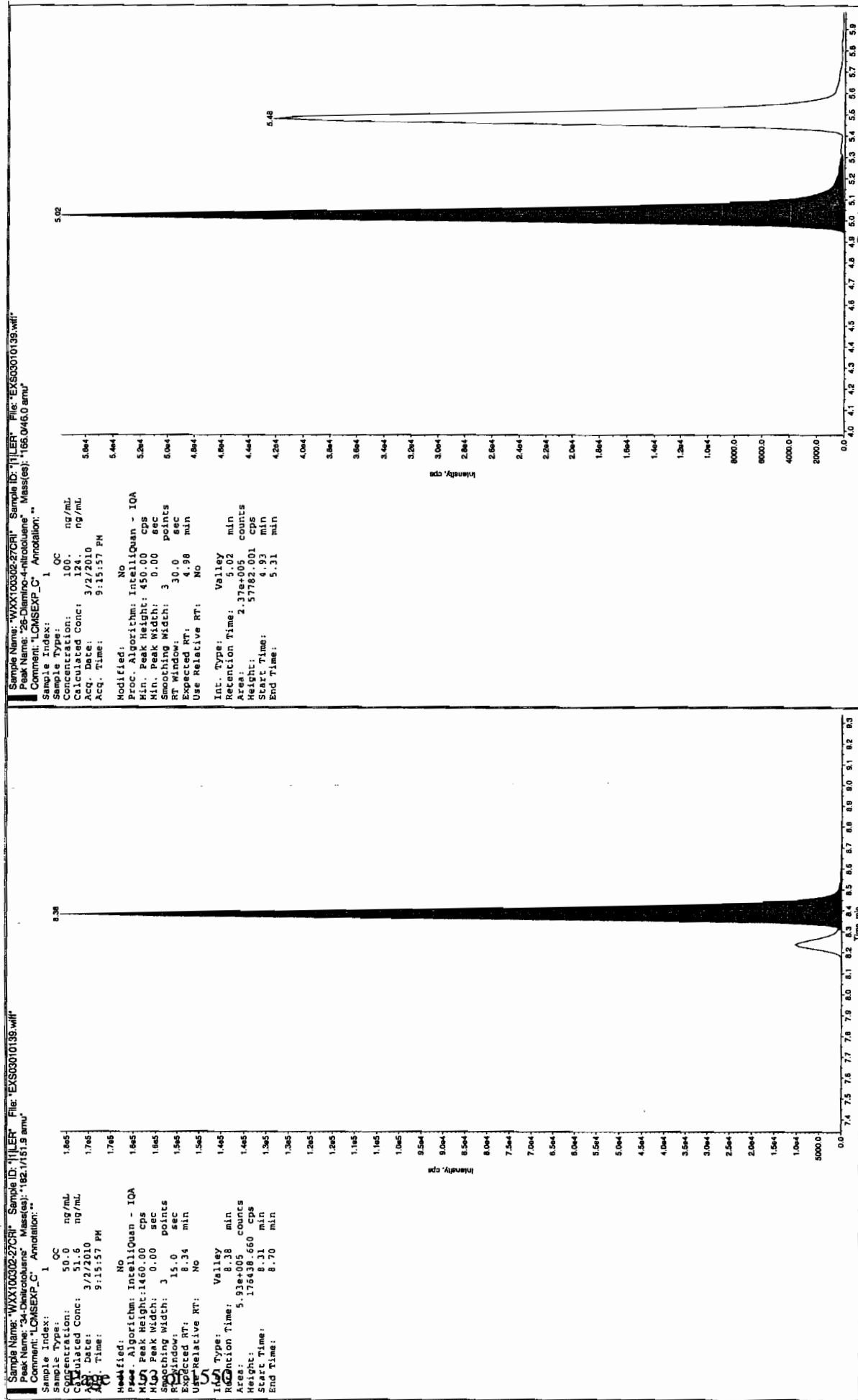
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

for 3/3/10

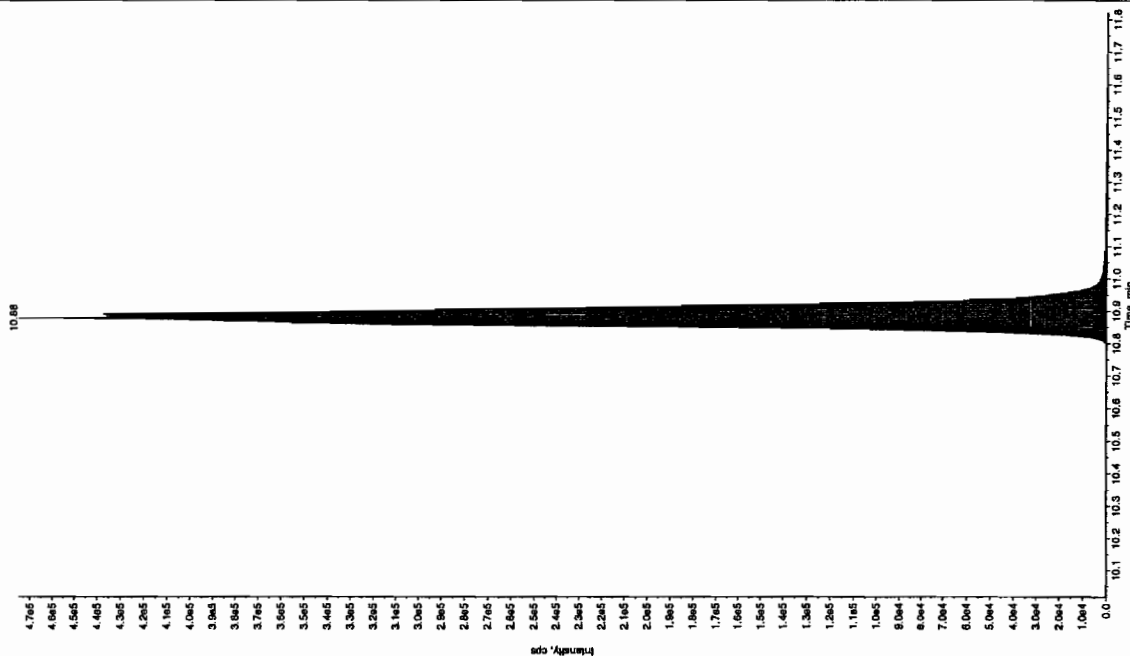


HW 03/04/10



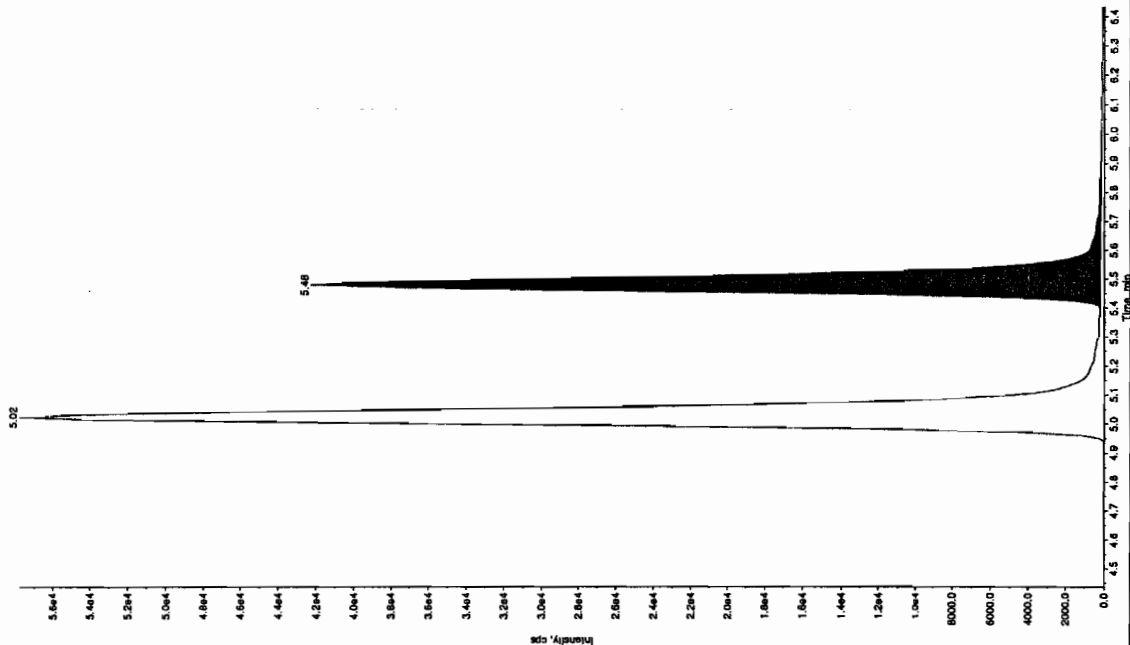
Sample Name: "WXX100302-2701" Sample ID: "11111" File: "EX503010139.wif"
 Peak Name: "166.046.0 amu" Mass(es): "166.046.0 amu"
 Comment: "LCMSXP_C" Annotation: ""

Sample Index: 1
 Sample Type: OC
 Concentration: 100 ng/mL
 Calculated Conc: 99.0 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 9:15:57 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.72e+006 counts
 Height: 474518.402 cps
 Start Time: 10.8 min
 End Time: 11.2 min



Sample Name: "WXX100302-2701" Sample ID: "11111" File: "EX503010139.wif"
 Peak Name: "166.046.0 amu" Mass(es): "166.046.0 amu"
 Comment: "LCMSXP_C" Annotation: ""

Sample Index: 1
 Sample Type: OC
 Concentration: 100 ng/mL
 Calculated Conc: 130. ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 9:15:57 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.44 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.48 min
 Area: 1.68e+005 counts
 Height: 42055.286 cps
 Start Time: 5.38 min
 End Time: 5.56 min



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010150.wiff

Analysis Date: 03-MAR-10 00:09

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	612	122	
2,6-Diamino-4-nitrotoluene	500	621	124	
3,4-Dinitrotoluene	250	228	91	
3,5-Dinitroaniline	500	484	97	
TATB	500	489	98	
tris(o-cresyl) phosphate	500	462	92	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

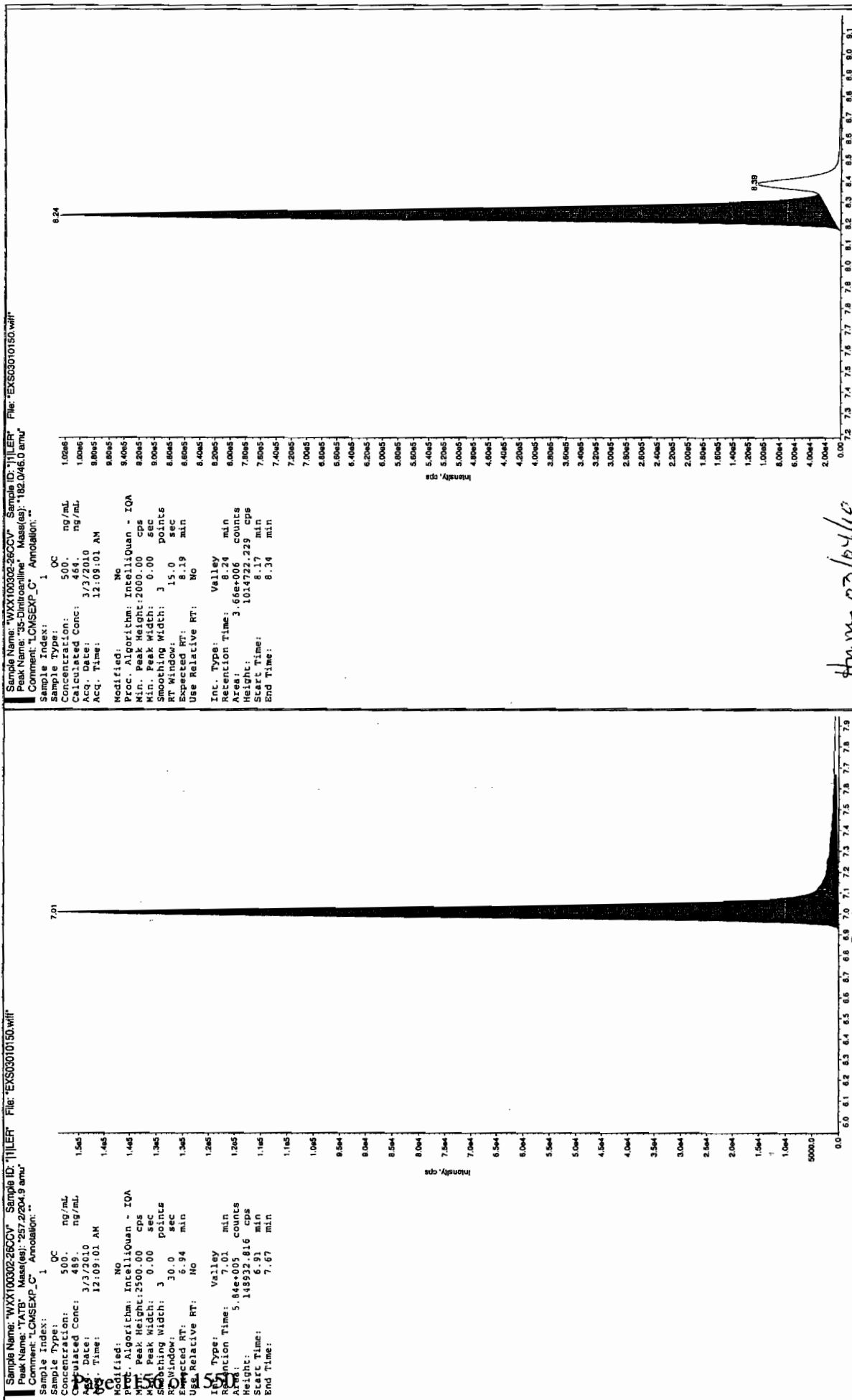
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

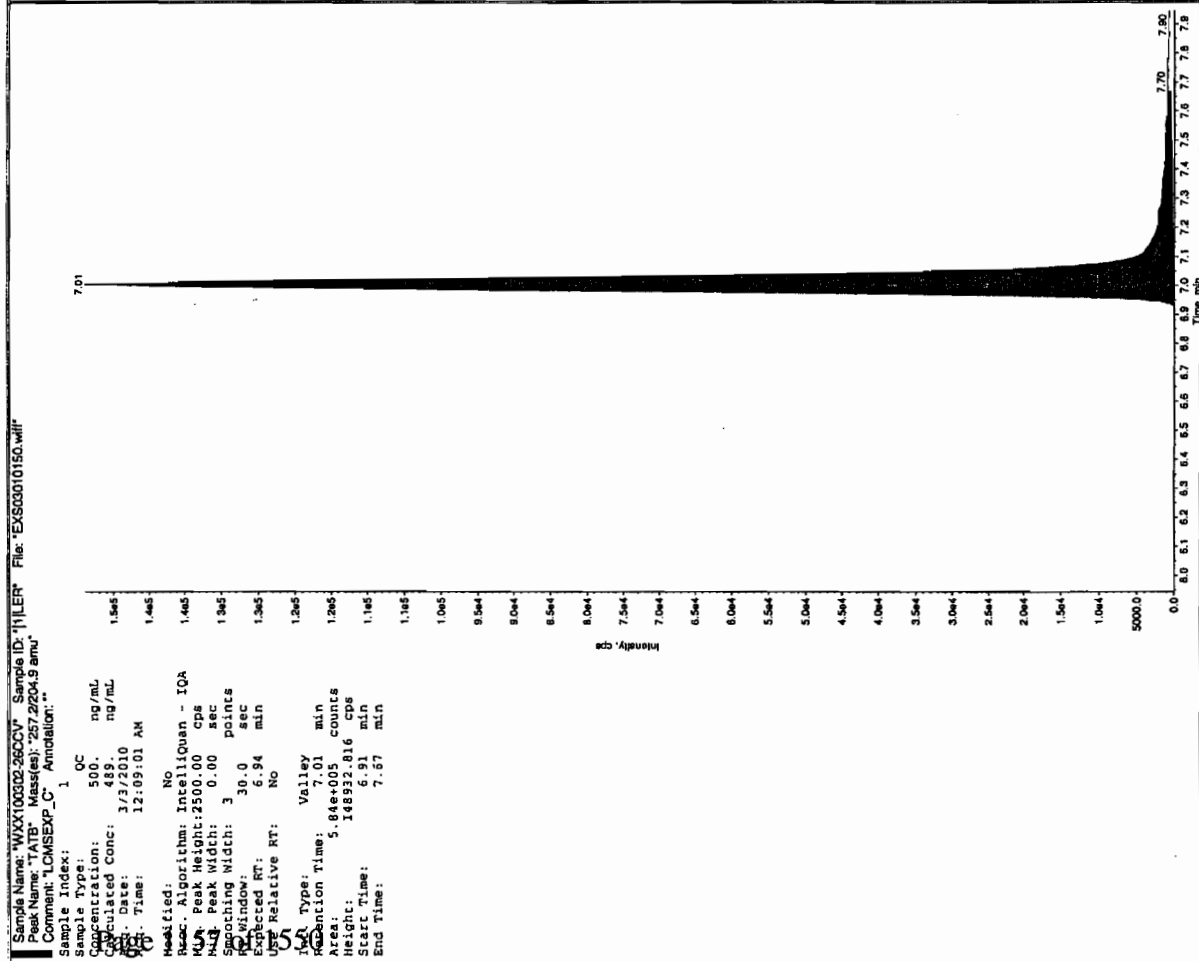
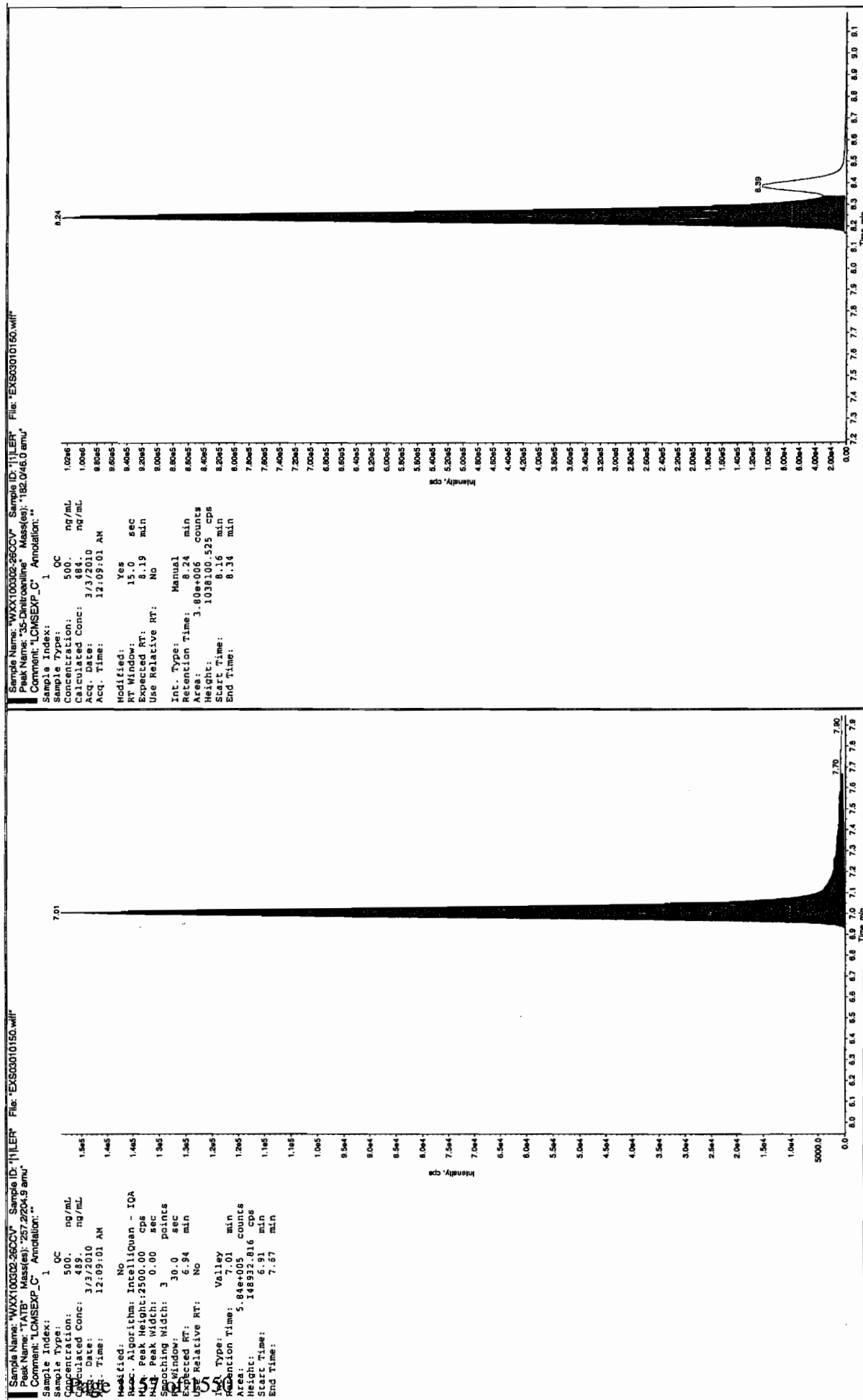
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 3/3/10



after 3/3/10



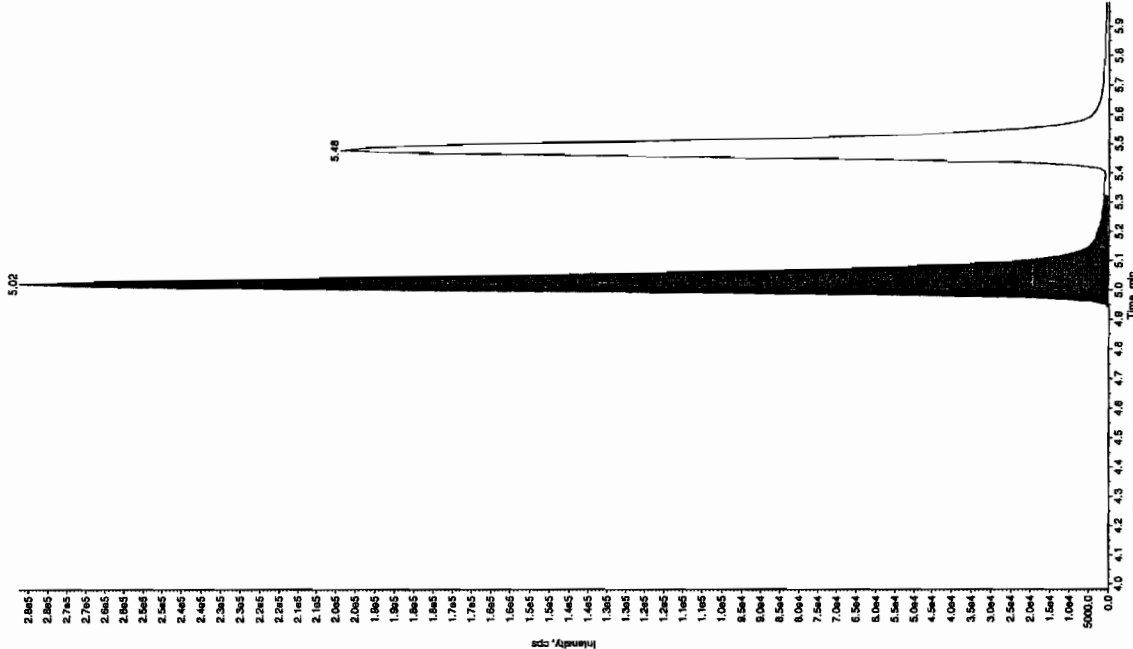
Sample Name: "WXX100302-28CCV" Sample ID: "11LER" File: "EXS03010150.wif"

Peak Name: "28-Dinitro-4-nitrofluorene" Mass(es): "156.046.0 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: OC
Concentration: 500. ng/mL
Calculated Conc: 621. ng/mL
Acq. Date: 3/3/2010
Acq. Time: 12:09:01 AM
Modified: No
Proc. Algorithm: IntelliQuan - IOA
Min. Peak Height: 450.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 4.98 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 5.02 min
Area: 1.16e+06 counts
Height: 28235659 cps
Start Time: 4.92 min
End Time: 5.32 min



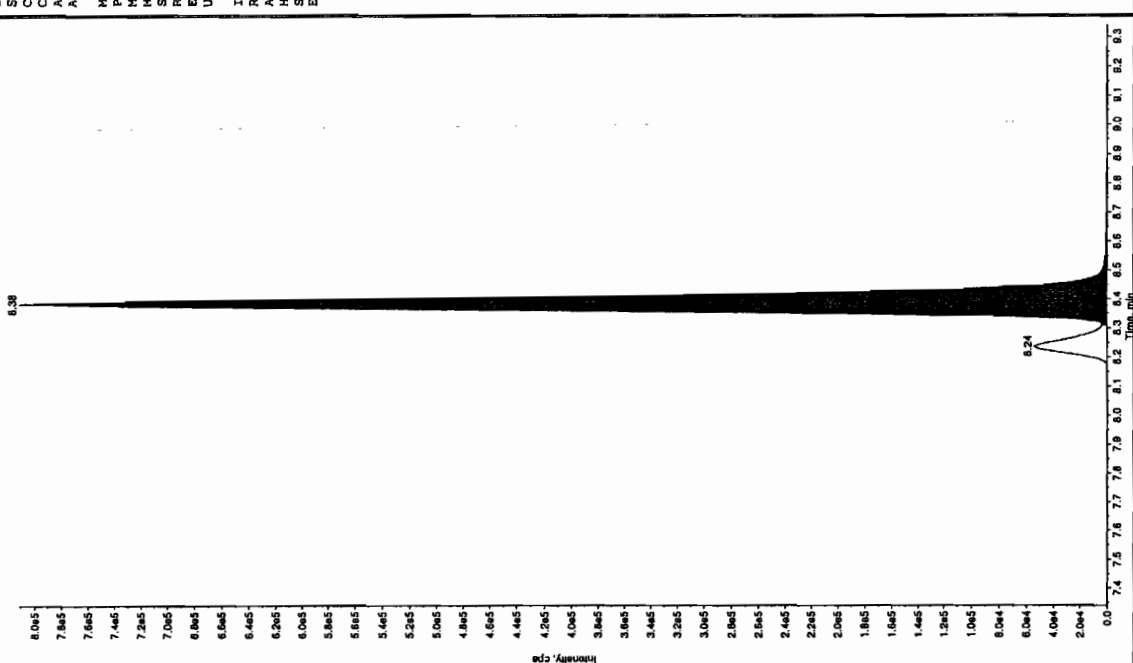
Sample Name: "WXX100302-28CCV" Sample ID: "11LER" File: "EXS03010150.wif"

Peak Name: "34-Dinitrofluorene" Mass(es): "182.1151.9 amu"

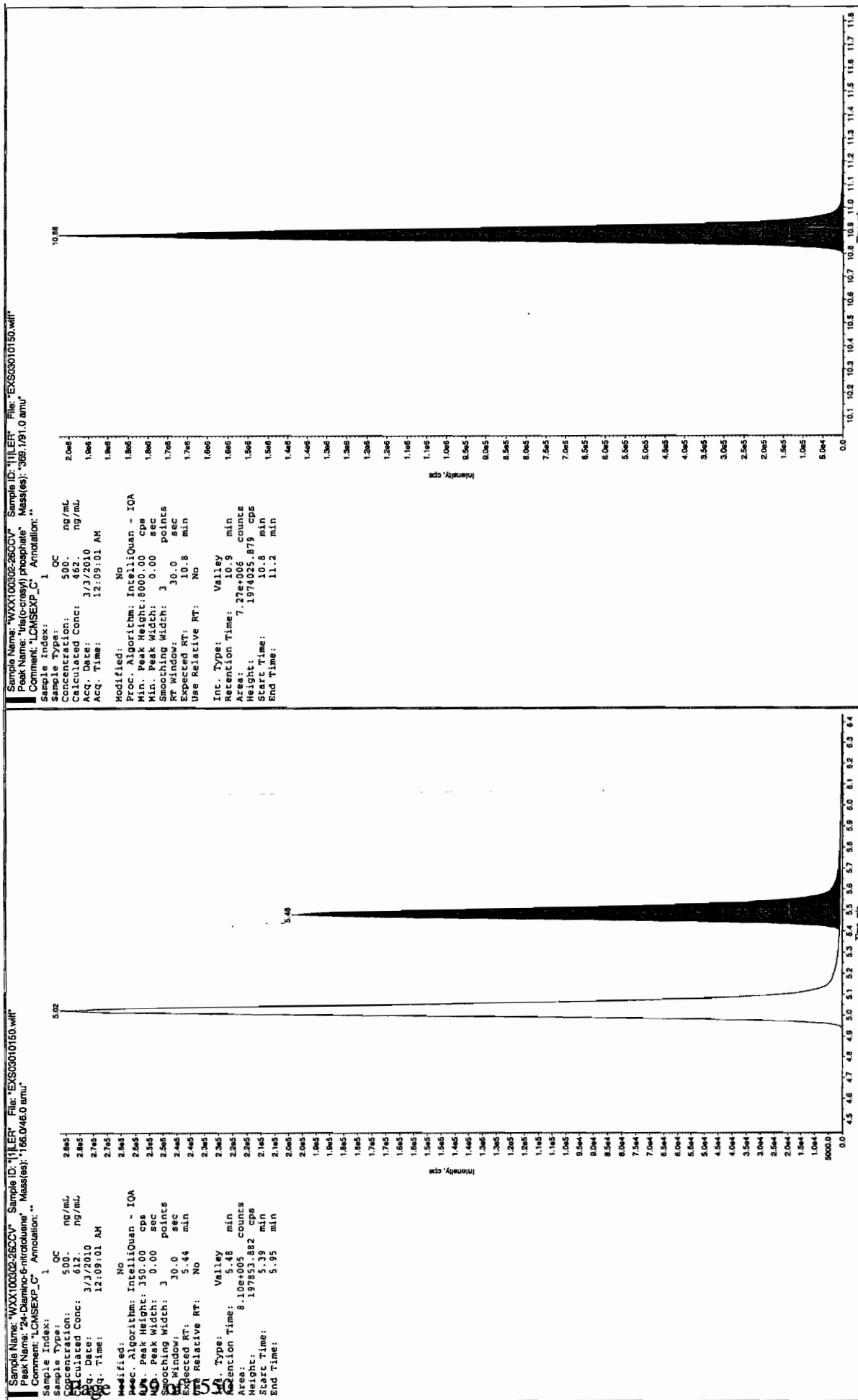
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: OC
Concentration: 250. ng/mL
Calculated Conc: 270. ng/mL
Acq. Date: 3/3/2010
Acq. Time: 12:09:01 AM
Modified: No
Proc. Algorithm: IntelliQuan - IOA
Min. Peak Height: 1460.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 15.0 sec
Expected RT: 8.34 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 8.38 min
Area: 2.78e+06 counts
Height: 810831647 cps
Start Time: 8.21 min
End Time: 8.58 min



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1620

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010152.wiff

Analysis Date: 03-MAR-10 00:40

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	133	133	
2,6-Diamino-4-nitrotoluene	100	126	126	
3,4-Dinitrotoluene	50	51.1	102	
3,5-Dinitroaniline	100	93.6	94	
TATB	100	100	100	
tris(o-cresyl) phosphate	100	97.7	98	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

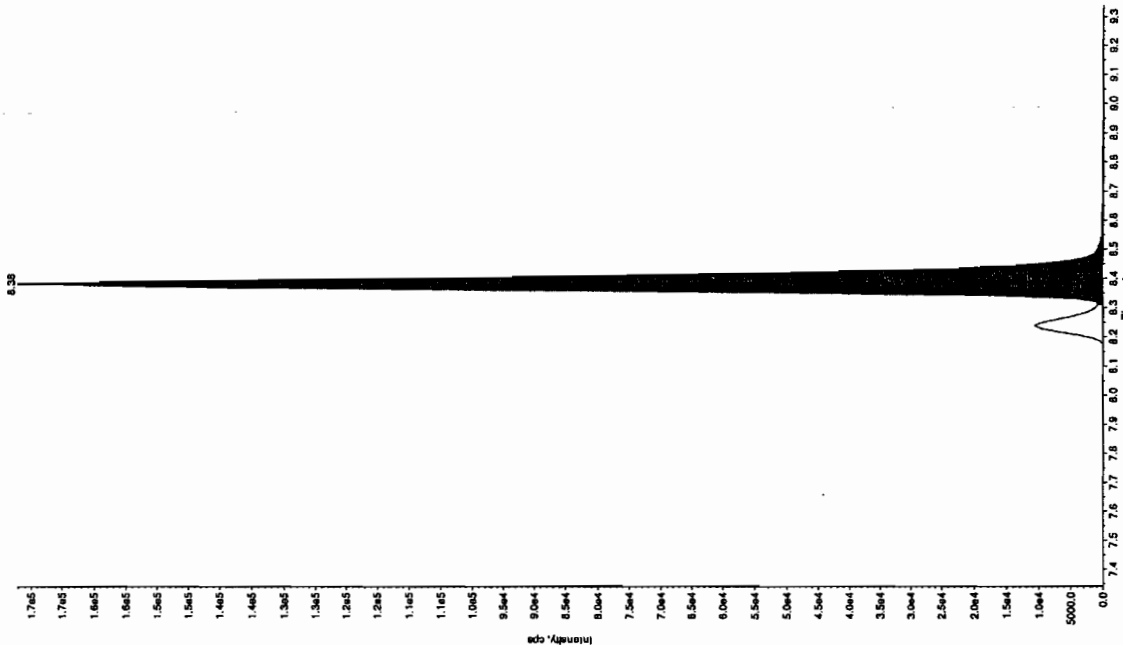
Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

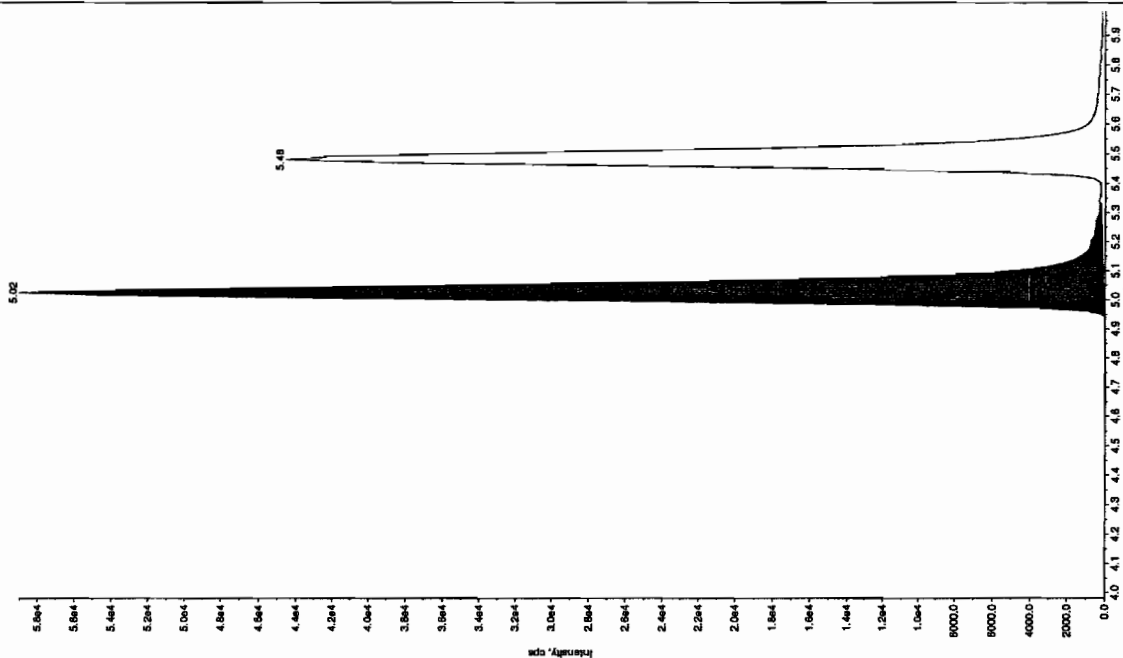
Sample Name: "WXX100302-27C01" Sample ID: "11LER" File: "EXS03010152.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

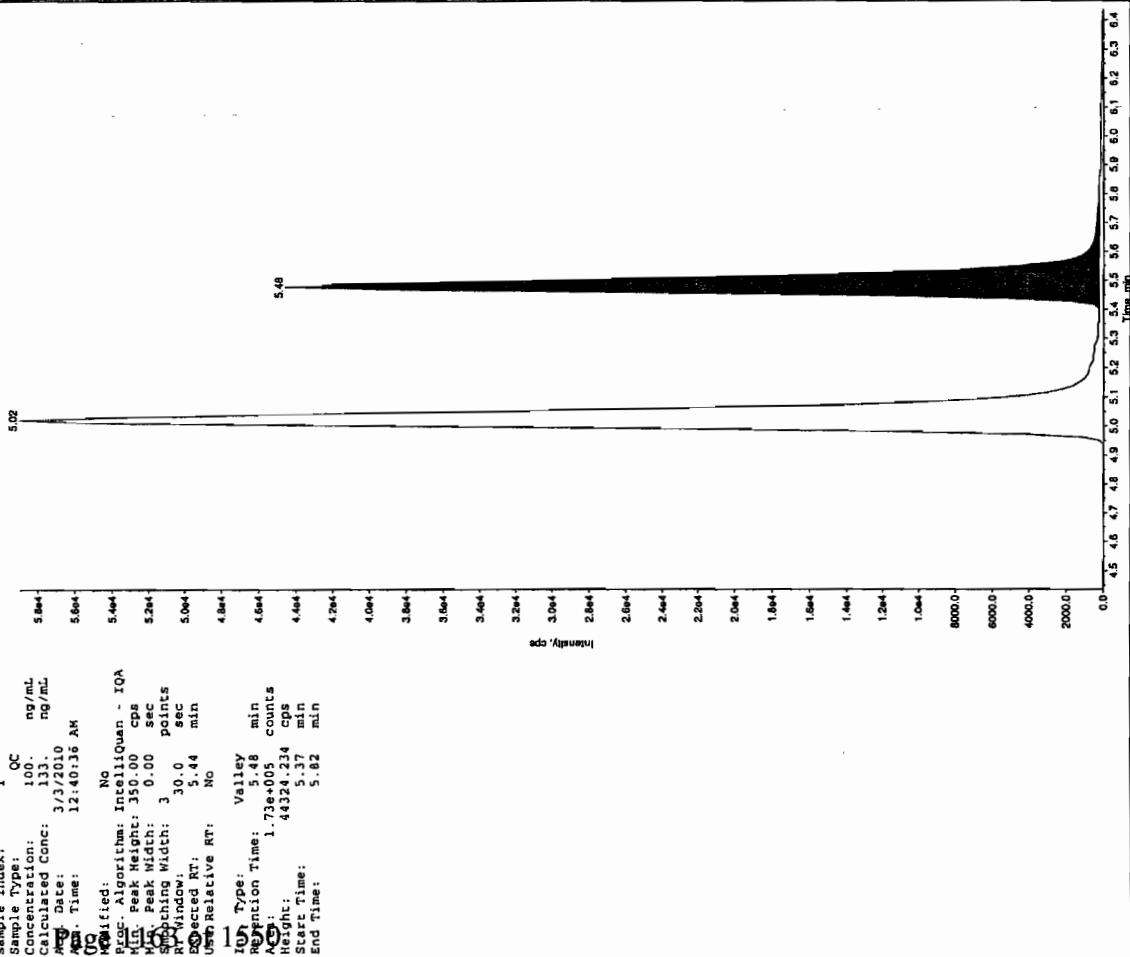
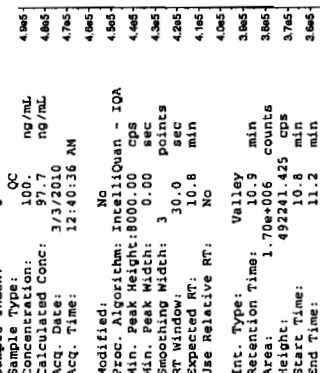
Sample Index: 1
 Sample Type: OC
 Concentration: 50.0 ng/mL
 Calculated Conc: 3/3/2010 ng/mL
 Acq. Date: 12:40:36 AM
 Acq. Time: 12:40:36 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.34 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.38 min
 Area: 5.87e+005 counts
 Height: 172108.093 cps
 Start Time: 8.31 min
 End Time: 8.67 min



Sample Name: "WXX100302-27C01" Sample ID: "11LER" File: "EXS03010152.wif"
 Peak Name: "26-Dinitro-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: OC
 Concentration: 100. ng/mL
 Calculated Conc: 3/3/2010 ng/mL
 Acq. Date: 12:40:36 AM
 Acq. Time: 12:40:36 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.98 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.02 min
 Area: 2.41e+005 counts
 Height: 58991.249 cps
 Start Time: 4.92 min
 End Time: 5.33 min





QUALITY CONTROL DATA

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 950086

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 1202035690

Sample Amount 2

Moisture:

Amount Units g

Date Received: 07-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323018a

Date Analyzed: 23-MAR-10 17:30

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

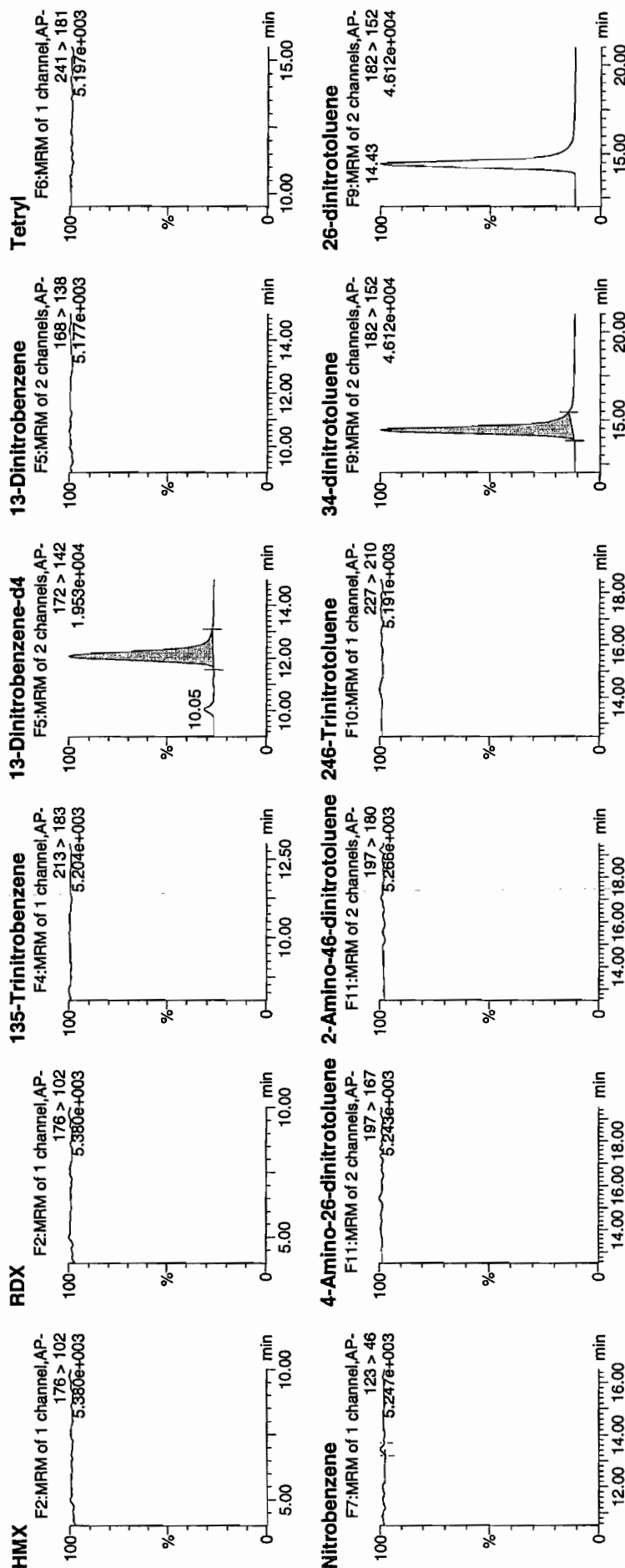
Name: C:\MASSLYN\NEW_EXP.PRO\Data\EXP0323018a

Date: 23-Mar-2010

Time: 17:30:13

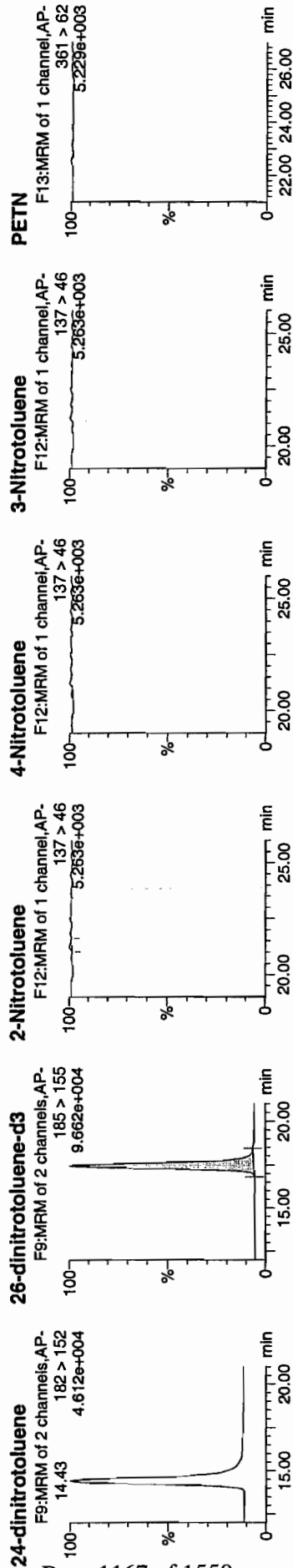
ID: 1202035

Vial: 2:1,A



03/24/10
Hm

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	%Rec	%Dev	S/N
1202035690	HMX	176 > 102			5750.093								
1202035690	RDX	176 > 102			5750.093								
1202035690	135-Trinitrobenzene	213 > 183			5750.093								
1202035690	13-Dinitrobenzene-d4	172 > 142	12.07	5750.093		5750.093	5750.093	bb	MM- 24-Mar-10	09:17:48	522.3300	104.5	308.2
1202035690	13-Dinitrobenzene	188 > 138			5750.093								
1202035690	Tetryl	241 > 181			5750.093								
1202035690	Nitrobenzene	123 > 46			5750.093								
1202035690	4-Amino-26-dinitrotoluene	197 > 167			35516.586								
1202035690	2-Amino-46-dinitrotoluene	197 > 180			35516.586								
1202035690	246-Trinitrotoluene	227 > 210			35516.586								
1202035690	34-dinitrotoluene	182 > 152	14.43	19293.844	35516.586	19293.844	271.617	bb	MM- 24-Mar-10	09:18:51	256.5130	102.6	974.1
1202035690	26-dinitrotoluene	182 > 152			35516.586								
1202035690	24-dinitrotoluene	182 > 152			35516.586								
1202035690	26-dinitrotoluene-d3	185 > 155	17.44	35516.586	35516.586	35516.586	35516.586	bb	MM- 24-Mar-10	09:18:51	515.7710	103.2	2094.8
1202035690	2-Nitrotoluene	137 > 46			35516.586								
1202035690	4-Nitrotoluene	137 > 46			35516.586								
1202035690	3-Nitrotoluene	137 > 46			35516.586								
1202035690	PETN	361 > 62			35516.586								

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 950086

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 1202035690

Sample Amount 2

Moisture:

Amount Units g

Date Received: 07-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010127.wiff

Date Analyzed: 02-MAR-10 18:07

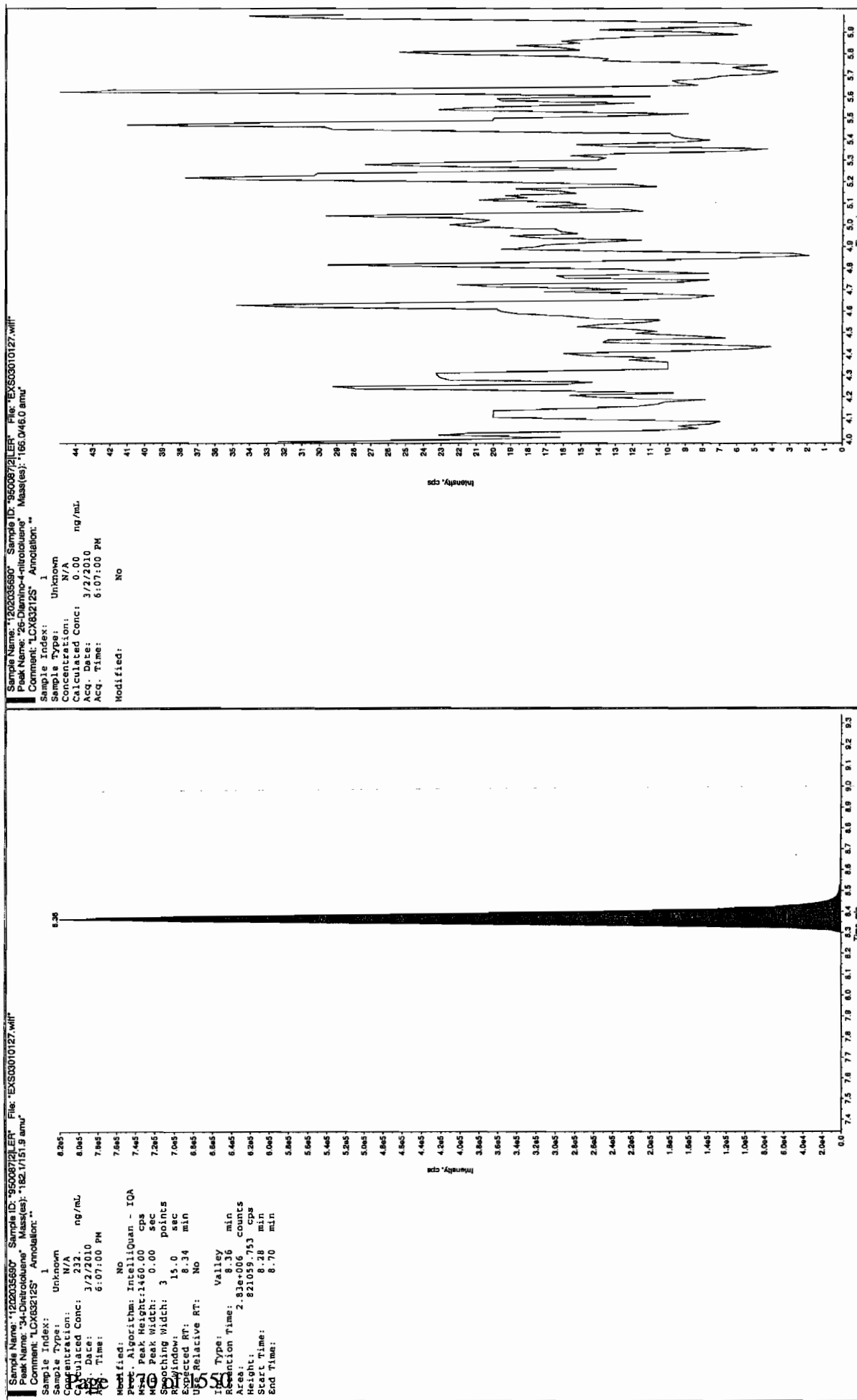
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

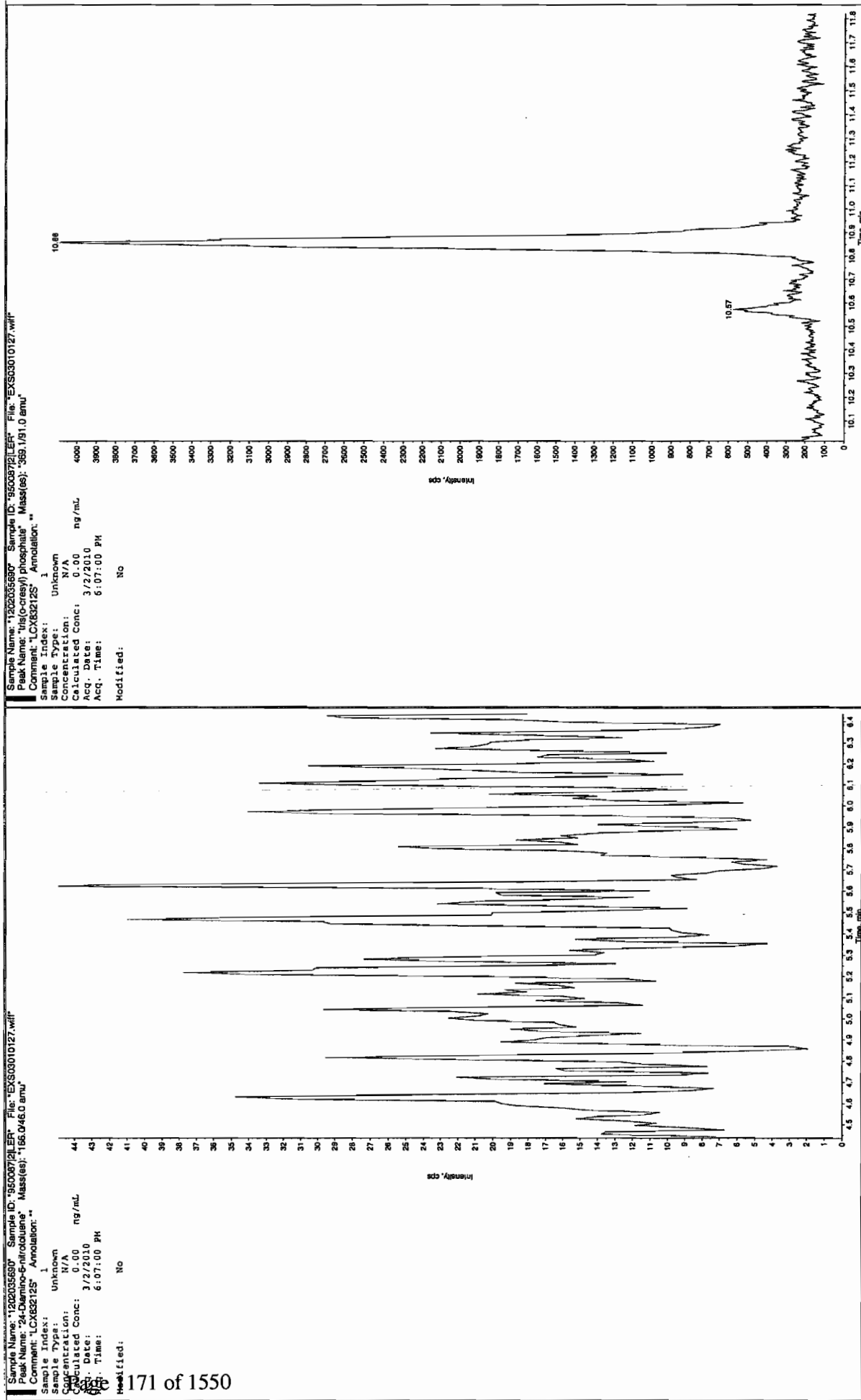
*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 950086

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 1202035691

Sample Amount 2

Moisture:

Amount Units g

Date Received: 07-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323019a

Date Analyzed: 23-MAR-10 17:59

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4540	
121-14-2	2,4-Dinitrotoluene	5080	
121-82-4	RDX	5410	
19406-51-0	4-Amino-2,6-dinitrotoluene	5260	
2691-41-0	HMX	4830	
35572-78-2	2-Amino-4,6-dinitrotoluene	5440	
479-45-8	Tetryl	2560	
606-20-2	2,6-Dinitrotoluene	5040	
78-11-5	PETN	5730	
88-72-2	o-Nitrotoluene	5210	
98-95-3	Nitrobenzene	4870	
99-08-1	m-Nitrotoluene	5170	
99-35-4	1,3,5-Trinitrobenzene	4280	
99-65-0	m-Dinitrobenzene	5150	
99-99-0	p-Nitrotoluene	5340	

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 37 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\data\EXP0323019a

Date: 23-Mar-2010

Time: 17:59:46

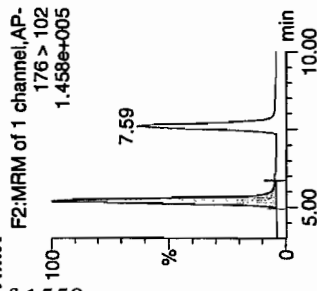
ID: 1202035691

Vial: 2:1,B

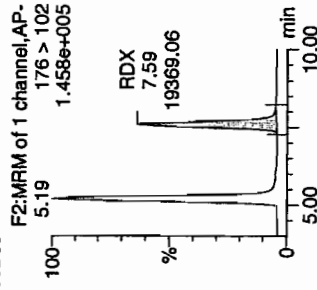
1.457
3/24/10

1.457/95082/2010/103/21

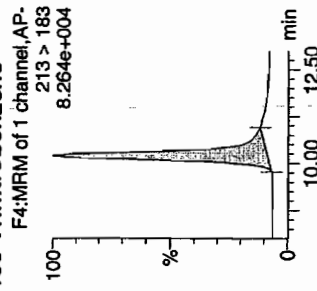
HMZ



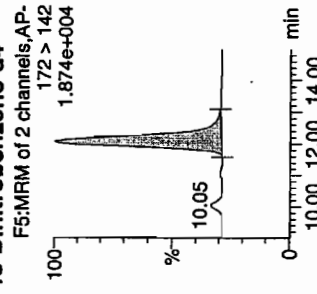
RDZ



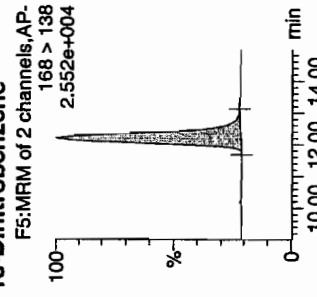
135-Trinitrobenzene



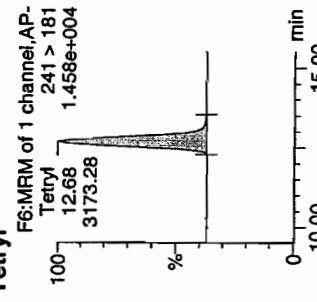
13-Dinitrobenzene-d4



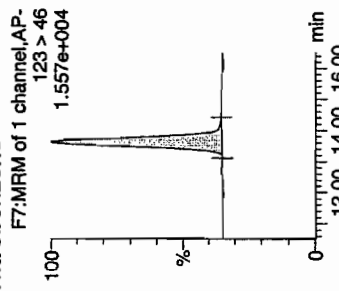
13-Dinitrobenzene



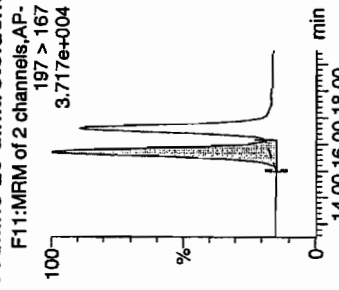
Tetryl



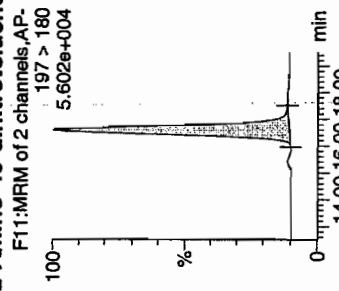
Nitrobenzene



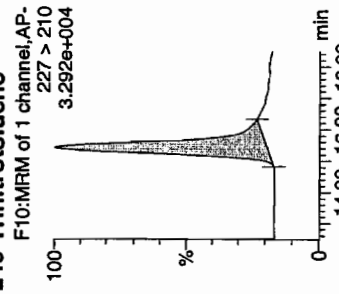
4-Amino-26-dinitrotoluene



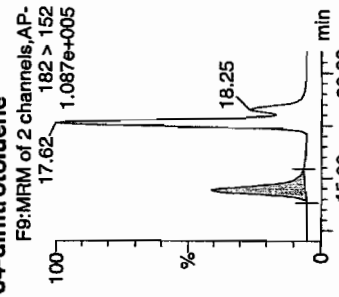
2-Amino-46-dinitrotoluene



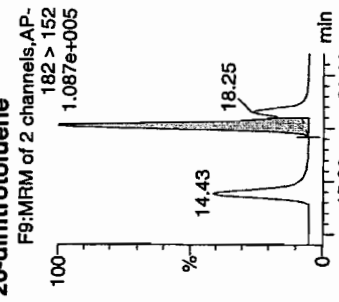
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



4mm
03/24/10

Dataset: C:\MASSLYNX\New_Exp_PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

24-dinitrotoluene

F9:MRM of 2 channels,AP-

182 > 152

1.087e+005

17.62

14.43

min

15.00

20.00

min

%

0

100

26-dinitrotoluene-d3

F9:MRM of 2 channels,AP-

185 > 155

8.857e+004

17.62

14.43

min

15.00

20.00

min

%

0

100

2-Nitrotoluene

F12:MRM of 1 channel,AP-

137 > 46

1.197e+004

24.09

min

20.00

25.00

min

%

0

100

4-Nitrotoluene

F12:MRM of 1 channel,AP-

137 > 46

1.197e+004

24.09

min

20.00

25.00

min

%

0

100

3-Nitrotoluene

F12:MRM of 1 channel,AP-

137 > 46

1.197e+004

22.45

min

20.00

25.00

min

%

0

100

PETN

F13:MRM of 1 channel,AP-

361 > 62

7.294e+004

24.42

min

22.00

26.00

min

%

0

100

34958.56

24.42

min

22.00

26.00

min

%

0

100

PETN

F13:MRM of 1 channel,AP-

361 > 62

7.294e+004

24.42

min

22.00

26.00

min

%

0

100

34958.56

24.42

min

22.00

26.00

min

%

0

100

34958.56

24.42

min

22.00

26.00

min

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34958.56

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34958.56

24.42

min

22.00

26.00

min

%

0

100

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 950086

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 1202035691

Sample Amount 2

Moisture:

Amount Units g

Date Received: 07-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010128.wiff

Date Analyzed: 02-MAR-10 18:22

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5020	
59229-75-3	2,6-Diamino-4-nitrotoluene	5690	
618-87-1	3,5-Dinitroaniline	4660	
6629-29-4	2,4-Diamino-6-nitrotoluene	5490	
78-30-8	tris(o-cresyl) phosphate	4780	

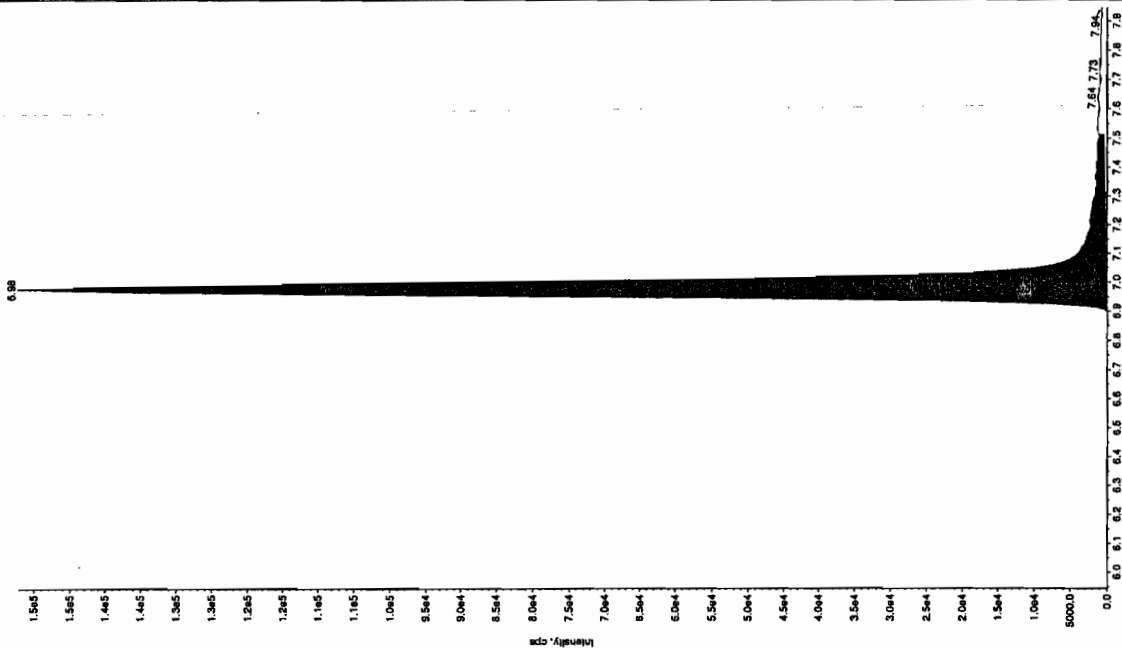
*Concentration =

Instrument		X	<u>Concentrated Extract Volume</u>	X	Dilution
Value			<u>Sample Amount</u>		Factor

Jan 3/2/10

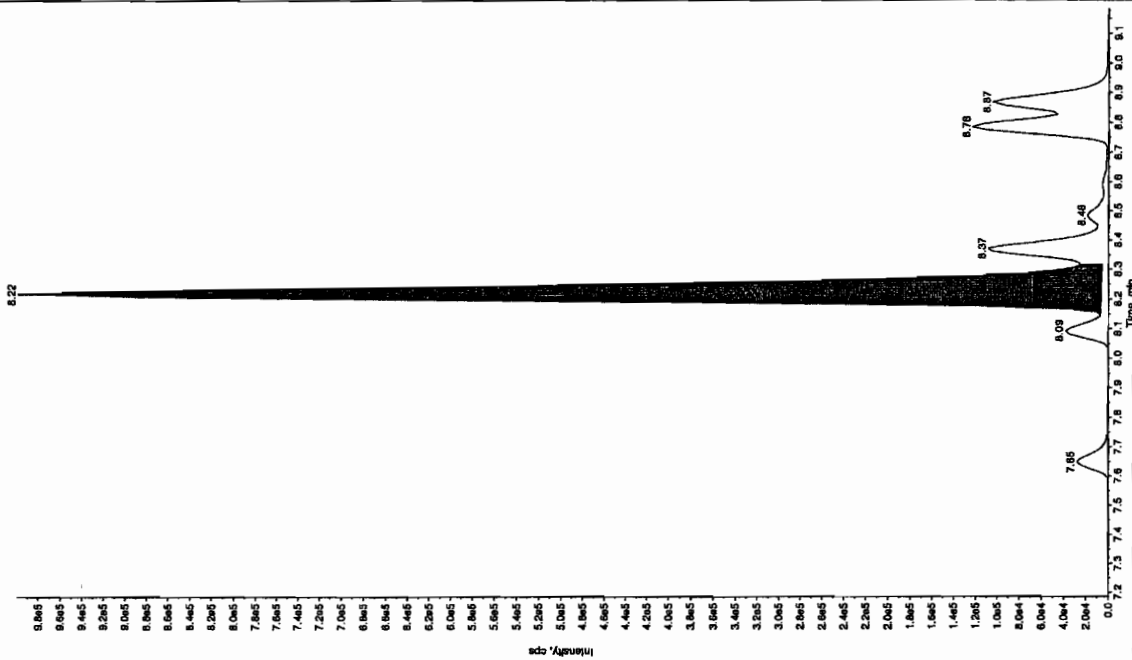
Sample Name: "1202035891" Sample ID: "95008721ER" File: "EX503010128.wif"
 Peak Name: "TATB" Mass(es): 257.2204.9 amu
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 102 ng/mL
 Calculated Conc: 3/2/2010
 Acq. Date: 6/22/10 PM
 Acq. Time: 6:22:50 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.94 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.98 min
 Area: 6.00e+003 cps
 Height: 131900 cps
 Start Time: 6.88 min
 End Time: 7.51 min

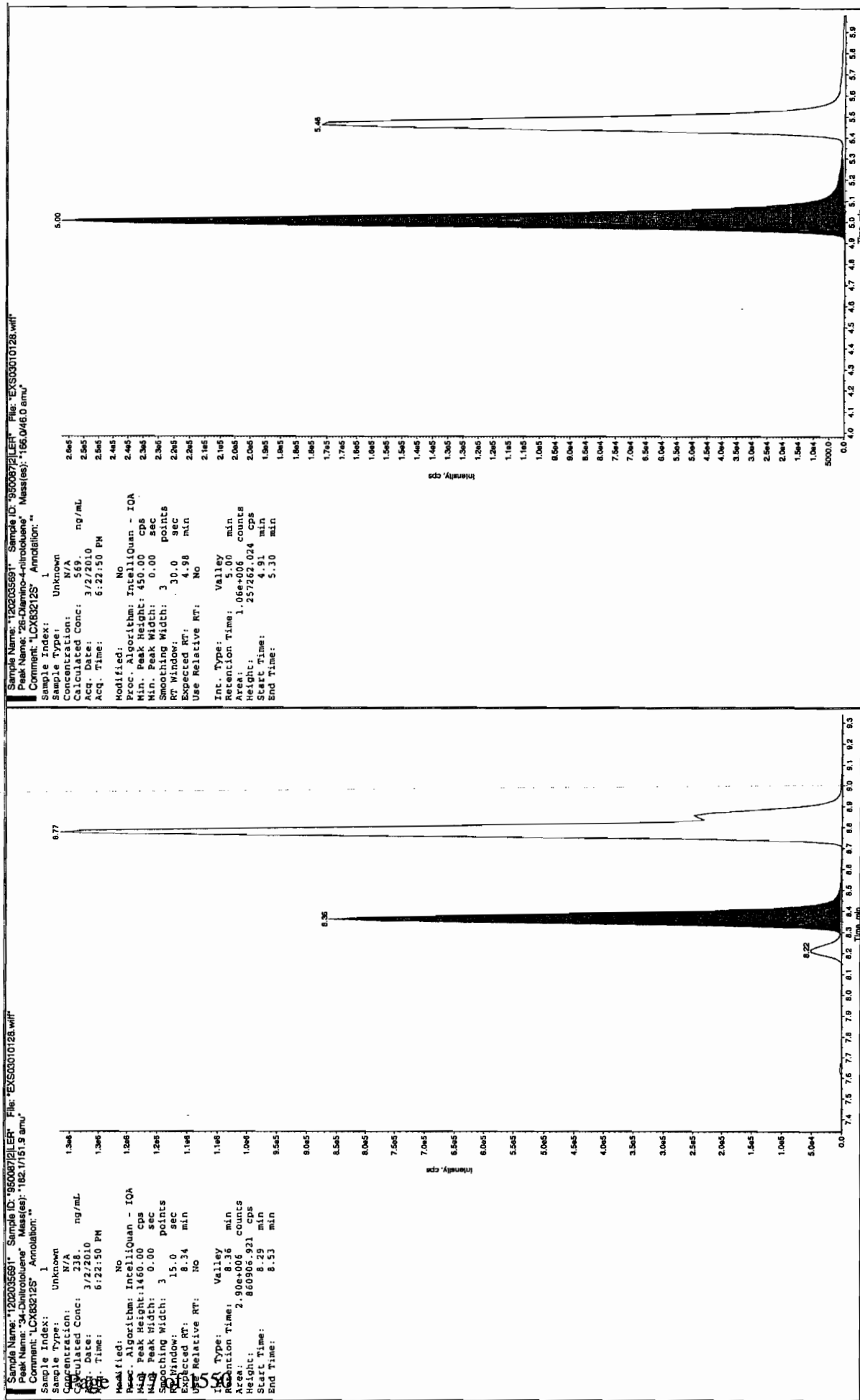


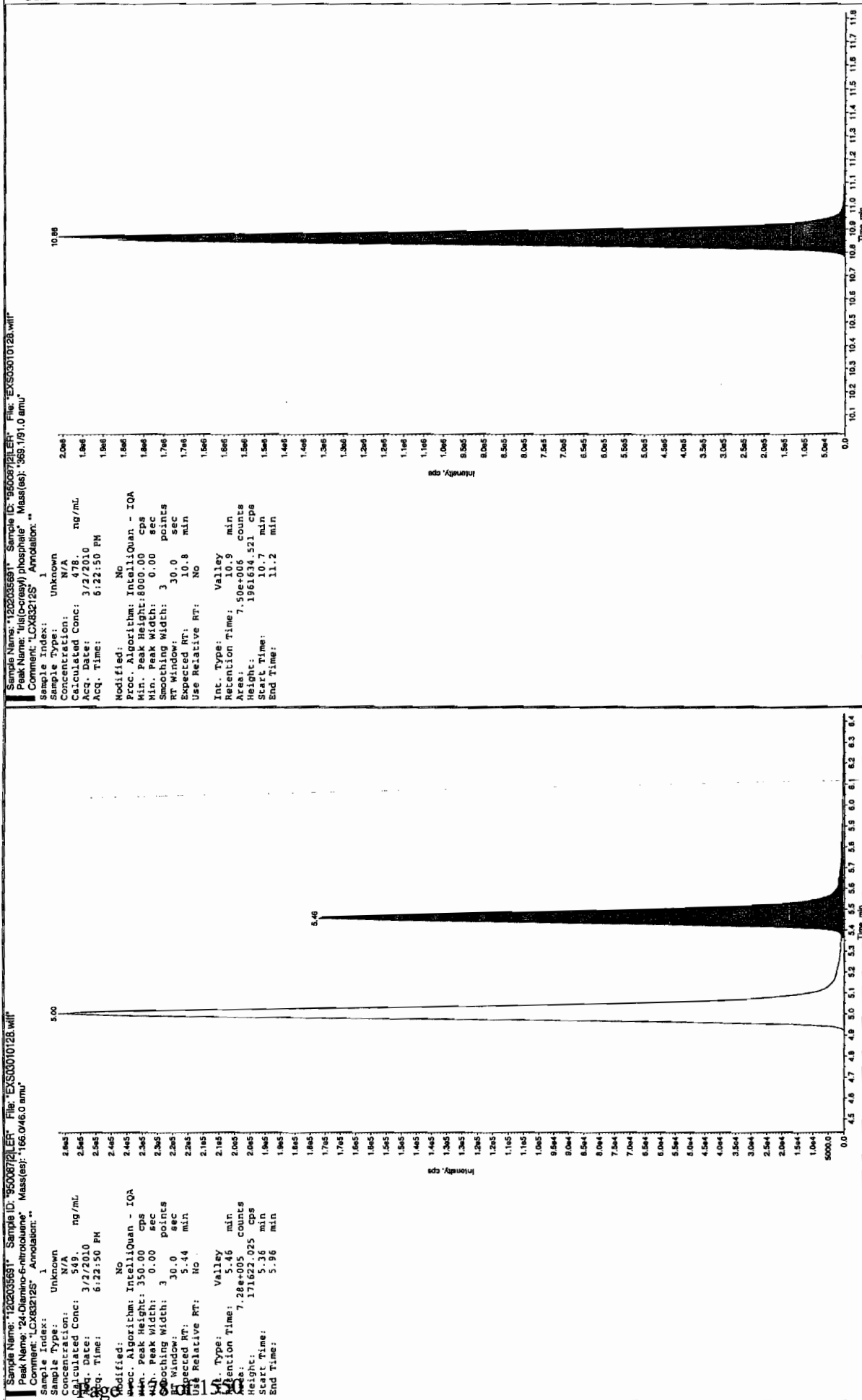
Sample Name: "1202035891" Sample ID: "95008721ER" File: "EX503010128.wif"
 Peak Name: "TATB" Mass(es): 182.046.0 amu
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 466 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 6:22:50 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.19 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.22 min
 Area: 3.67e+006 counts
 Height: 992777.100 cps
 Start Time: 8.14 min
 End Time: 8.32 min



Amc 02/04/10





1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8354(246434002MS)

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 1202035692

Sample Amount 2

Moisture: 22.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323021a

Date Analyzed: 23-MAR-10 18:58

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	5370	
121-14-2	2,4-Dinitrotoluene	4860	
121-82-4	RDX	4580	
19406-51-0	4-Amino-2,6-dinitrotoluene	5570	
2691-41-0	HMX	4390	
35572-78-2	2-Amino-4,6-dinitrotoluene	5100	
479-45-8	Tetryl	3770	
606-20-2	2,6-Dinitrotoluene	4630	
78-11-5	PETN	5060	
88-72-2	o-Nitrotoluene	4520	
98-95-3	Nitrobenzene	4620	
99-08-1	m-Nitrotoluene	4520	
99-35-4	1,3,5-Trinitrobenzene	4000	
99-65-0	m-Dinitrobenzene	4830	
99-99-0	p-Nitrotoluene	4630	

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323021a

Date: 23-Mar-2010

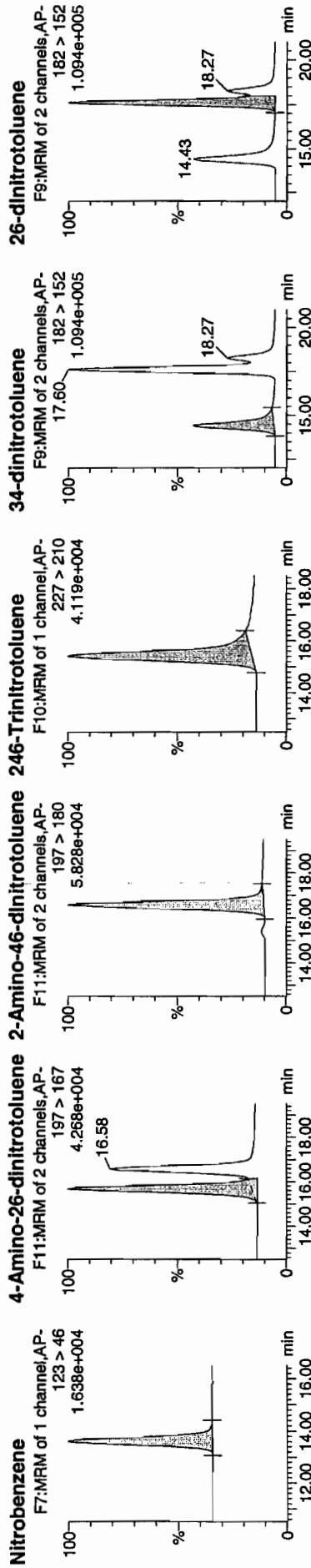
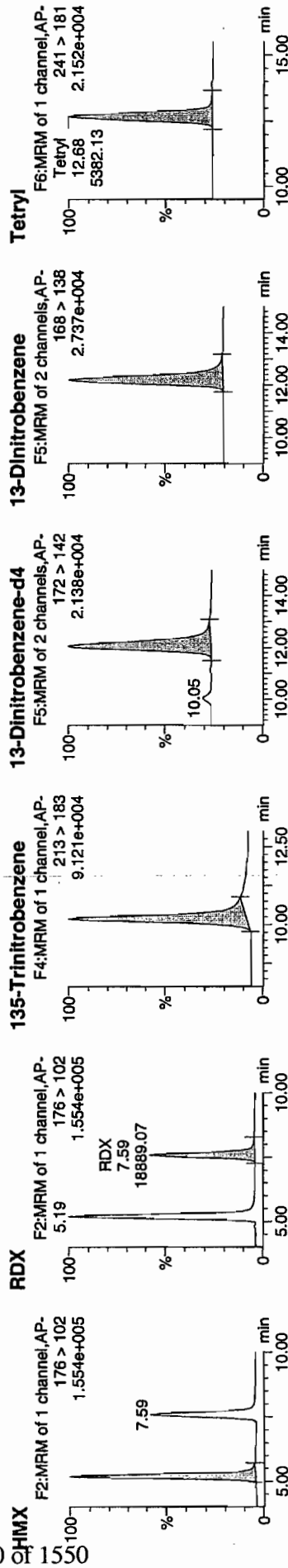
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Vial: 2:1,D

4477
3/24/10

246434032us / 2 /



4477
03/24/10

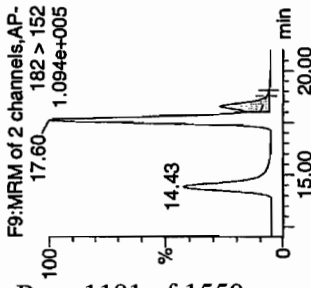
Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

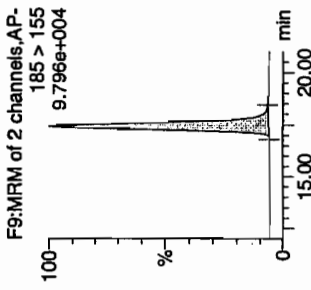
Printed: Wed Mar 24 09:32:17 2010, Page 42 of 99

Dataset: C:\MASSLYNX\New_Exp\PRO032310expA.qld, Time: Wed Mar 24 09:29:41 2010

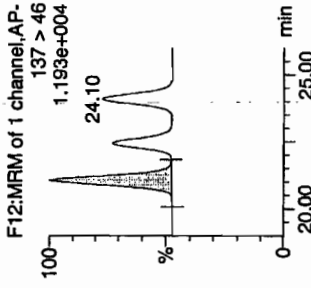
24-dinitrotoluene



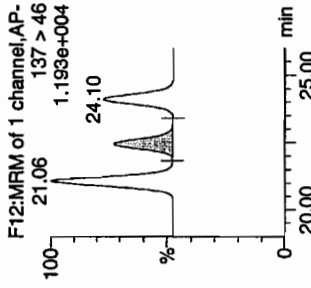
26-dinitrotoluene-d3



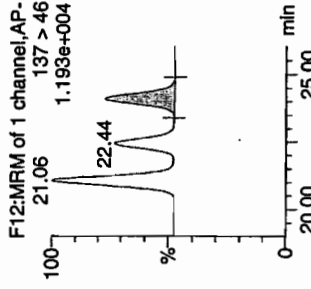
2-Nitrotoluene



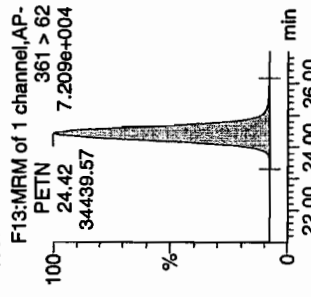
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abn Resp	Response	Flags	Mod Date	Mod Time	Conc (mg/ml)	% Rec	% Dev	S/N
1202035692	HMZ	176 > 102	5.19	30121.066	6226.520	30121.066	2418.772	bb	24-Mar-10	09:21:19	438.7313	87.7	-12.3	1280.0
1202035692	RDX	176 > 102	7.59	18889.070	6226.520	18889.070	1516.824	bb			458.0759	91.6	-8.4	718.0
1202035692	135-Trinitrobenzene	213 > 183	10.18	23533.723	6226.520	23533.723	1889.797	bb			399.8553	80.0	-20.0	1201.9
1202035692	13-Dinitrobenzene-d4	172 > 142	12.07	6226.520		6226.520	6226.520	bb			565.6079	113.1	13.1	552.1
1202035692	13-Dinitrobenzene	168 > 138	12.20	7992.163	6226.520	7992.163	641.784	bb			483.2910	96.7	-3.3	969.2
1202035692	Tetryl	241 > 181	12.68	5382.128	6226.520	5382.128	432.194	bb			376.8601	75.4	-24.6	758.7
1202035692	Nitrobenzene	123 > 46	13.63	3767.361	6226.520	3767.361	302.525	bb			461.7633	92.4	-7.6	498.8
1202035692	4-Amino-26-dinitrotoluene	197 > 167	15.68	14237.759	36138.207	14237.759	196.990	MM	24-Mar-10	09:21:19	557.4541	111.5	11.5	513.8
1202035692	2-Amino-46-dinitrotoluene	197 > 180	16.58	20170.494	36138.207	20170.494	279.074	bb			509.6457	101.9	1.9	1630.8
1202035692	246-Trinitrotoluene	227 > 210	15.41	15906.514	36138.207	15906.514	220.079	bb			536.6851	107.3	7.3	1362.7
1202035692	34-dinitrotoluene	182 > 152	14.43	19686.879	36138.207	19686.879	272.383	bb			257.2362	102.9	2.9	1086.3
1202035692	26-dinitrotoluene	182 > 152	17.60	38730.078	36138.207	38730.078	535.861	MM	24-Mar-10	09:24:41	463.1420	92.6	-7.4	2783.0
1202035692	24-dinitrotoluene	182 > 152	18.27	9747.452	36138.207	9747.452	134.864	MM	24-Mar-10	09:28:13	486.0031	97.2	-2.8	620.9
1202035692	26-dinitrotoluene-d3	185 > 155	17.44	36138.207		36138.207	36138.207	bb			524.7982	105.0	5.0	5819.9
1202035692	2-Nitrotoluene	137 > 46	21.06	2632.423	36138.207	2632.423	36.422	bb			451.6386	90.3	-9.7	371.6
1202035692	4-Nitrotoluene	137 > 46	22.44	1302.237	36138.207	1302.237	18.017	bb			462.6874	92.5	-7.5	177.3
1202035692	3-Nitrotoluene	137 > 46	24.10	1648.554	36138.207	1648.554	22.809	bb			452.3698	90.5	-9.5	210.6
1202035692	PETN	361 > 62	24.42	34439.566	36138.207	34439.566	476.498	bb			506.4604	101.3	1.3	7207.4

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8354(246434002MS)

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 1202035692

Sample Amount 2

Moisture: 22.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010130.wiff

Date Analyzed: 02-MAR-10 18:54

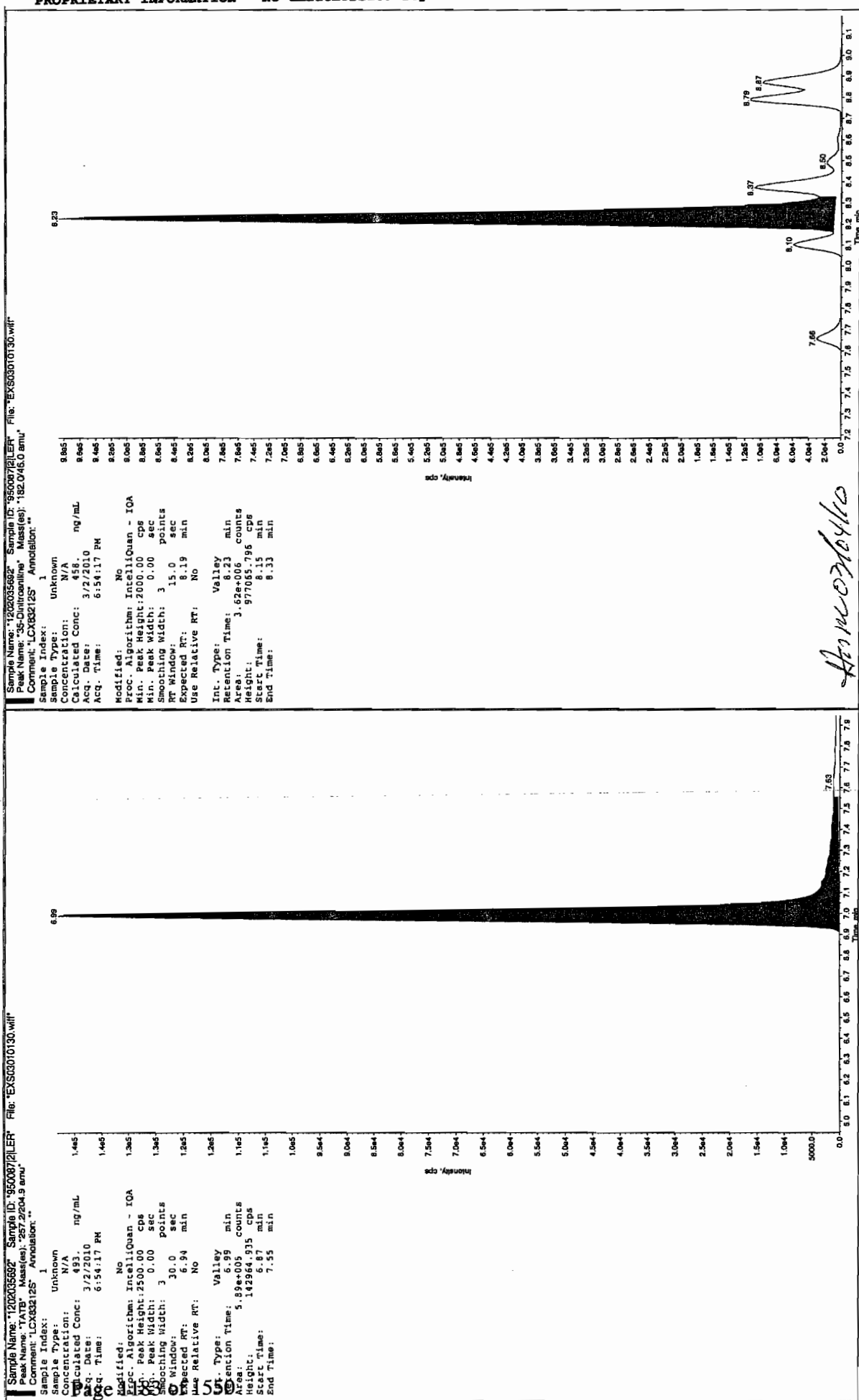
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	4930	
59229-75-3	2,6-Diamino-4-nitrotoluene	5660	
618-87-1	3,5-Dinitroaniline	4580	
6629-29-4	2,4-Diamino-6-nitrotoluene	5100	
78-30-8	tris(o-cresyl) phosphate	4500	

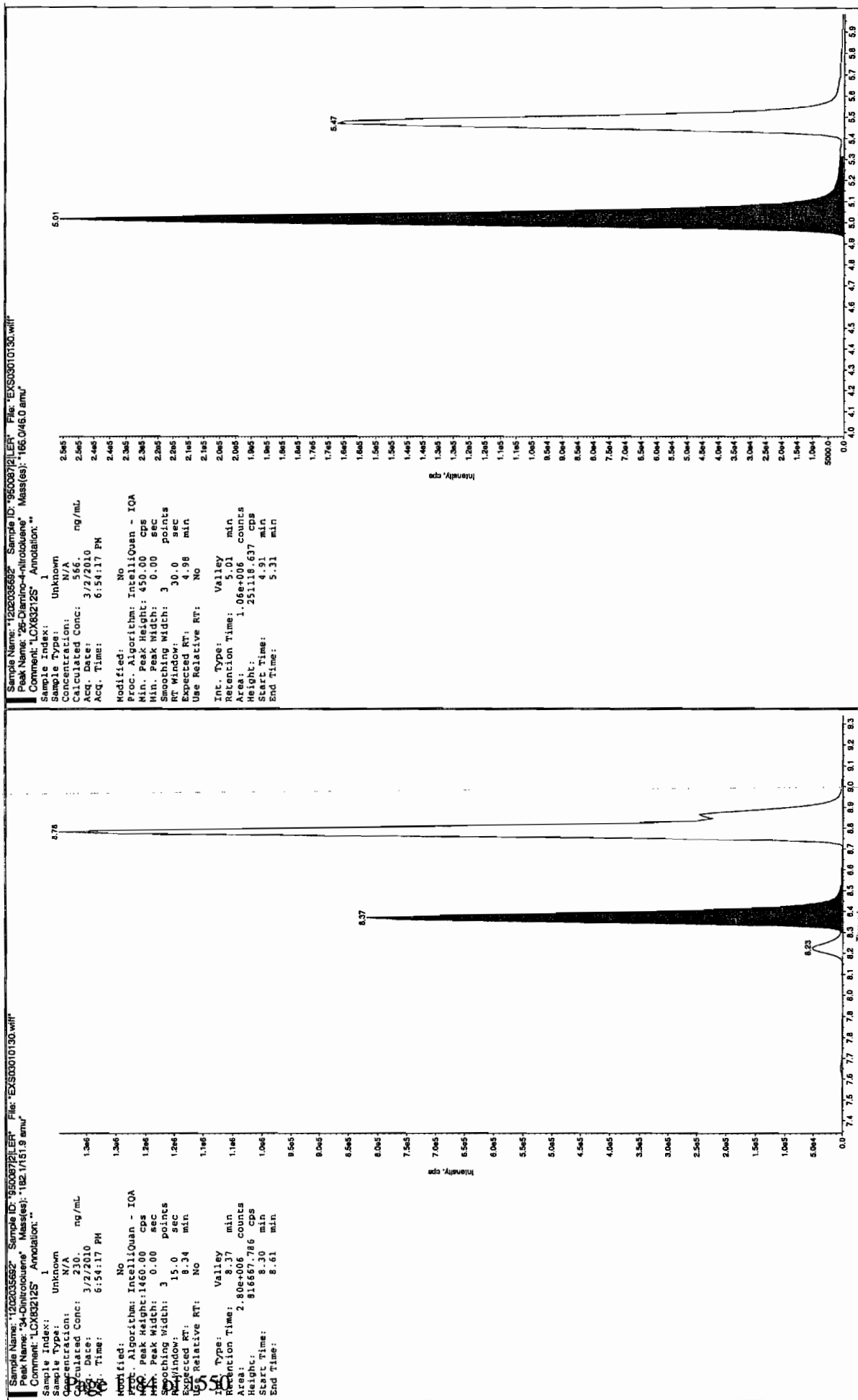
*Concentration =

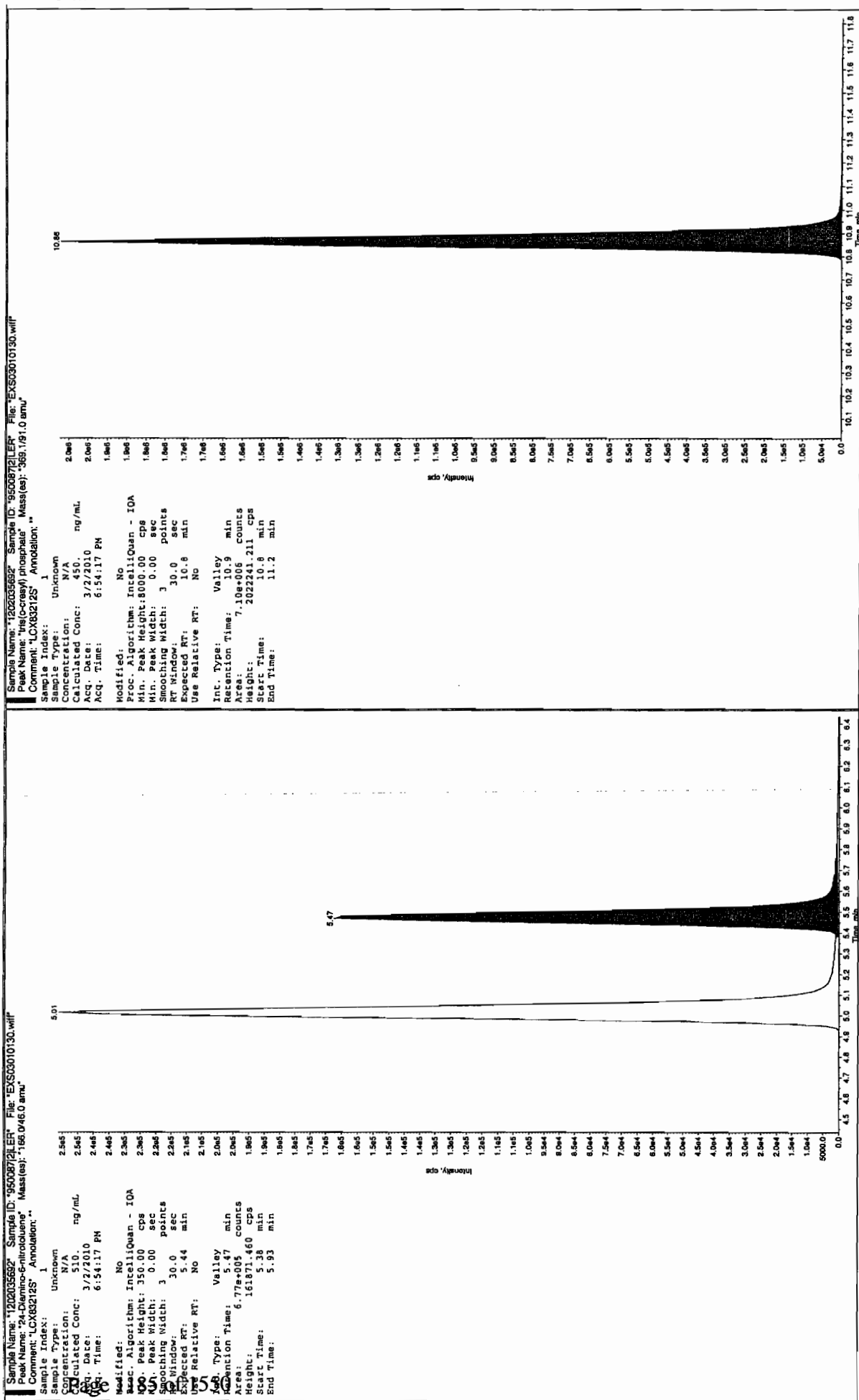
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Jan 3/2/10



Amw030410





1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8354(246434002MSD)

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 1202035693

Sample Amount 2

Moisture: 22.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323022a

Date Analyzed: 23-MAR-10 19:28

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4830	
121-14-2	2,4-Dinitrotoluene	5130	
121-82-4	RDX	4920	
19406-51-0	4-Amino-2,6-dinitrotoluene	5410	
2691-41-0	HMX	4750	
35572-78-2	2-Amino-4,6-dinitrotoluene	5420	
479-45-8	Tetryl	4050	
606-20-2	2,6-Dinitrotoluene	5020	
78-11-5	PETN	4800	
88-72-2	o-Nitrotoluene	4590	
98-95-3	Nitrobenzene	4560	
99-08-1	m-Nitrotoluene	4600	
99-35-4	1,3,5-Trinitrobenzene	4490	
99-65-0	m-Dinitrobenzene	5000	
99-99-0	p-Nitrotoluene	4820	

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 43 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323022a

Date: 23-Mar-2010

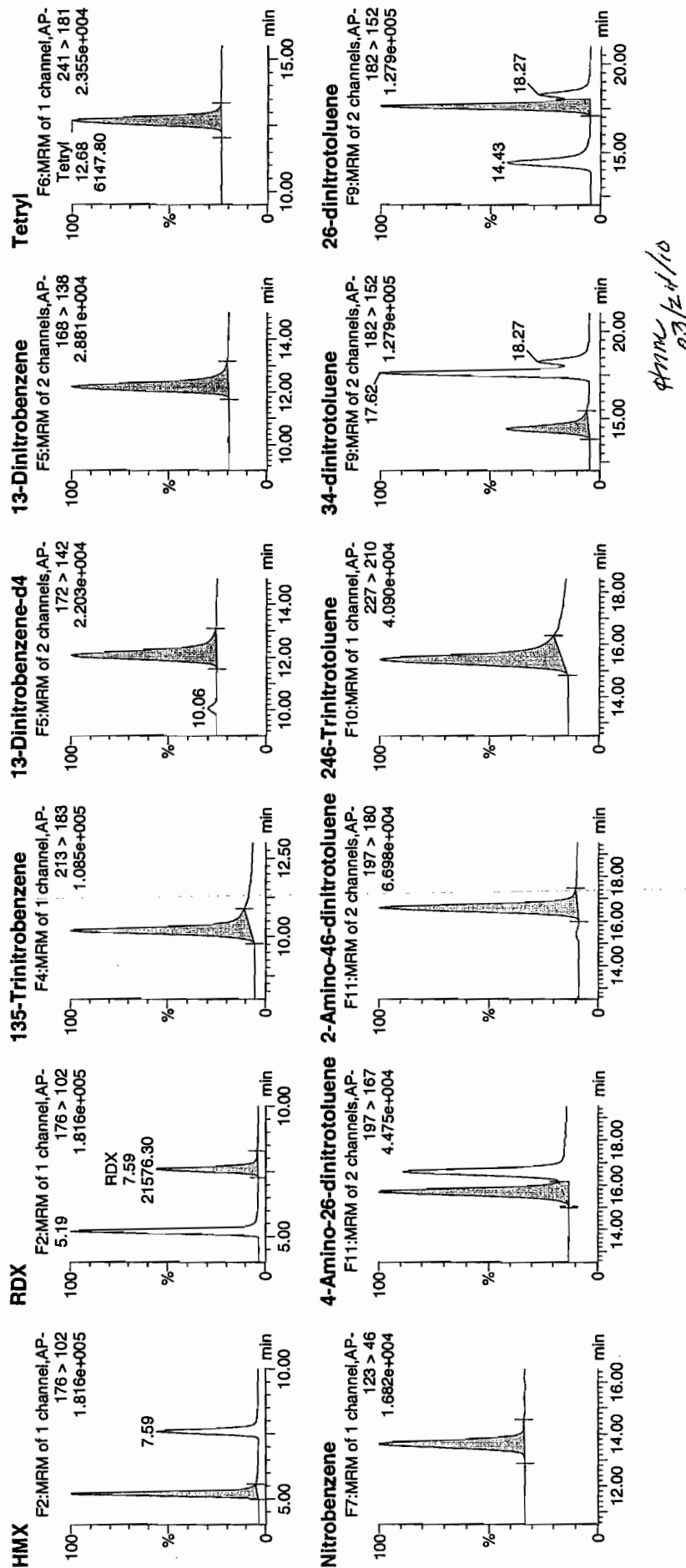
Time: 19:28:11

ID: 1202035693

Vial: 2:1,E

Lot# 7
3/24/10

246434002MSD / 21
Vial 1950087 / 8027



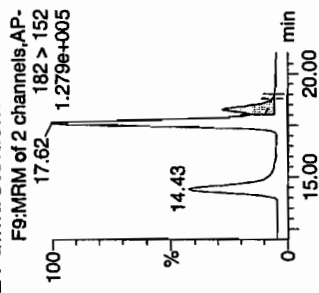
Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

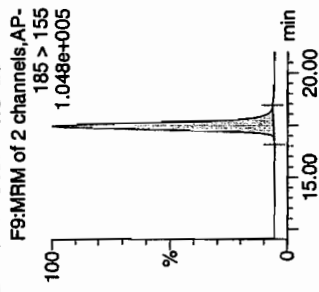
Printed: Wed Mar 24 09:32:17 2010, Page 44 of 99

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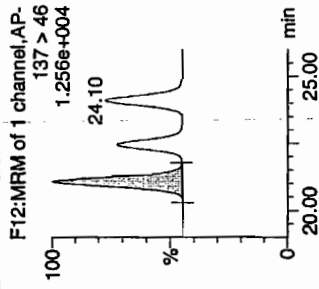
24-dinitrotoluene



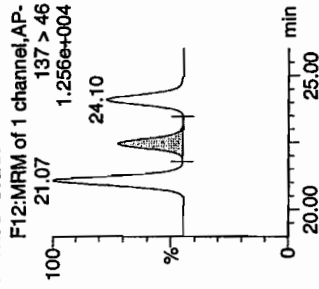
26-dinitrotoluene-d3



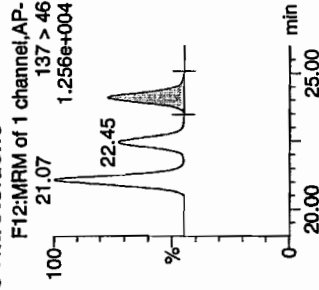
2-Nitrotoluene



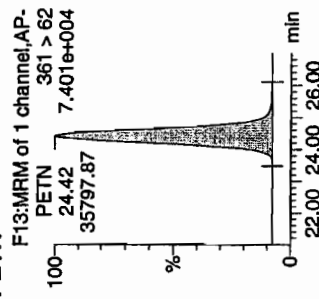
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	ISArea	Abs Resp	Response	Flags	Mod Date	Mod Time	%Rec	%Dev	S/N	
1202035693	HMX	176 > 102	5.19	34682.094	6619.136	34682.094	2619.835	bb			475.2013	95.0	-5.0	1068.1
1202035693	RDX	176 > 102	7.59	21576.301	6619.136	21576.301	1629.843	bb			492.2071	98.4	-1.6	579.6
1202035693	135-Trinitrobenzene	213 > 183	10.18	28113.635	6619.136	28113.635	2123.663	bb			449.3382	89.9	-10.1	2200.2
1202035693	13-Dinitrobenzene-d4	172 > 142	12.07	6619.136		6619.136	6619.136	bb			601.2726	120.3	20.3	291.9
1202035693	13-Dinitrobenzene	168 > 138	12.20	8789.971	6619.136	8789.971	663.982	bb			500.0068	100.0	0.0	871.4
1202035693	Tetryl	241 > 181	12.68	6147.800	6619.136	6147.800	464.396	bb			404.9394	81.0	-19.0	795.7
1202035693	Nitrobenzene	123 > 46	13.63	3956.247	6619.136	3956.247	298.849	bb			456.1521	91.2	-8.8	185.4
1202035693	4-Amino-26-dinitrotoluene	197 > 167	15.68	15118.712	39536.930	15118.712	191.197	MM	24-Mar-10	09:21:31	541.0606	108.2	8.2	627.9
1202035693	2-Amino-46-dinitrotoluene	197 > 180	16.58	23468.021	39536.930	23468.021	296.786	bb			541.9908	108.4	8.4	1479.6
1202035693	246-Trinitrotoluene	227 > 210	15.41	15677.033	39536.930	15677.033	198.258	bb			483.4728	96.7	-3.3	609.9
1202035693	34-dinitrotoluene	182 > 152	14.43	23376.285	39536.930	23376.285	295.626	bb			279.1865	111.7	11.7	502.2
1202035693	26-dinitrotoluene	182 > 152	17.62	45896.871	39536.930	45896.871	580.430	MM	24-Mar-10	09:24:50	501.6635	100.3	0.3	1275.0
1202035693	24-dinitrotoluene	182 > 152	18.27	11263.906	39536.930	11263.906	142.448	MM	24-Mar-10	09:28:24	513.3346	102.7	2.7	300.5
1202035693	26-dinitrotoluene-d3	185 > 155	17.44	39536.930		39536.930	39536.930	bb			574.1544	114.8	14.8	3049.1
1202035693	2-Nitrotoluene	137 > 46	21.07	2929.476	39536.930	2929.476	37.047	bb			459.3979	91.9	-8.1	449.9
1202035693	4-Nitrotoluene	137 > 46	22.45	1484.920	39536.930	1484.920	18.779	bb			482.2413	96.4	-3.6	222.4
1202035693	3-Nitrotoluene	137 > 46	24.10	1832.436	39536.930	1832.436	23.174	bb			459.6030	91.9	-8.1	261.3
1202035693	PETN	361 > 62	24.42	35797.867	39536.930	35797.867	452.714	bb			480.2893	96.1	-3.9	7325.5

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8354(246434002MSD)

Lab Code: GEL

GEL Job No (SDG) 10-1620

Matrix: SOIL

GEL Sample ID: 1202035693

Sample Amount 2

Moisture: 22.0

Amount Units g

Date Received: 06-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950086

Concentrated Extract Volume (mL) 10

Date Extracted: 16-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010131.wiff

Date Analyzed: 02-MAR-10 19:10

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5070	
59229-75-3	2,6-Diamino-4-nitrotoluene	5630	
618-87-1	3,5-Dinitroaniline	4630	
6629-29-4	2,4-Diamino-6-nitrotoluene	5210	
78-30-8	tris(o-cresyl) phosphate	4610	

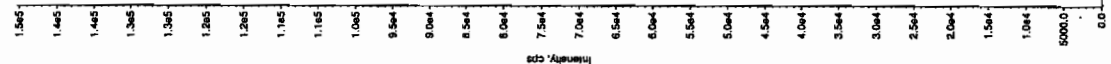
*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

3/310

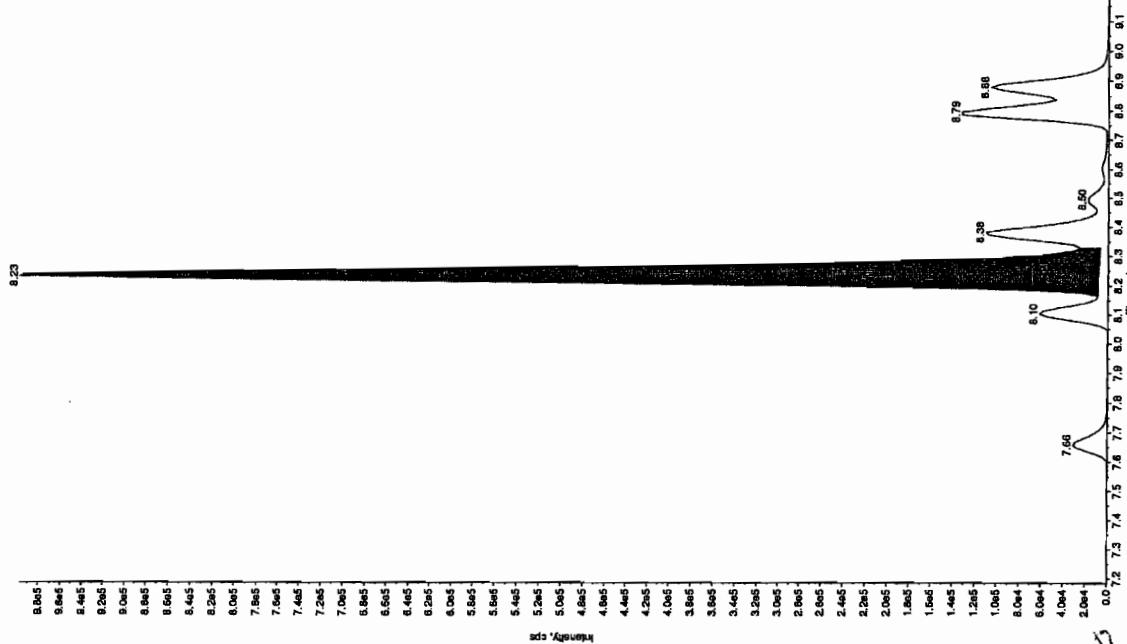
Sample Name: "120203563" Sample ID: "95008721ER" File: "EX503010131.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCX832125" Annotation: ""

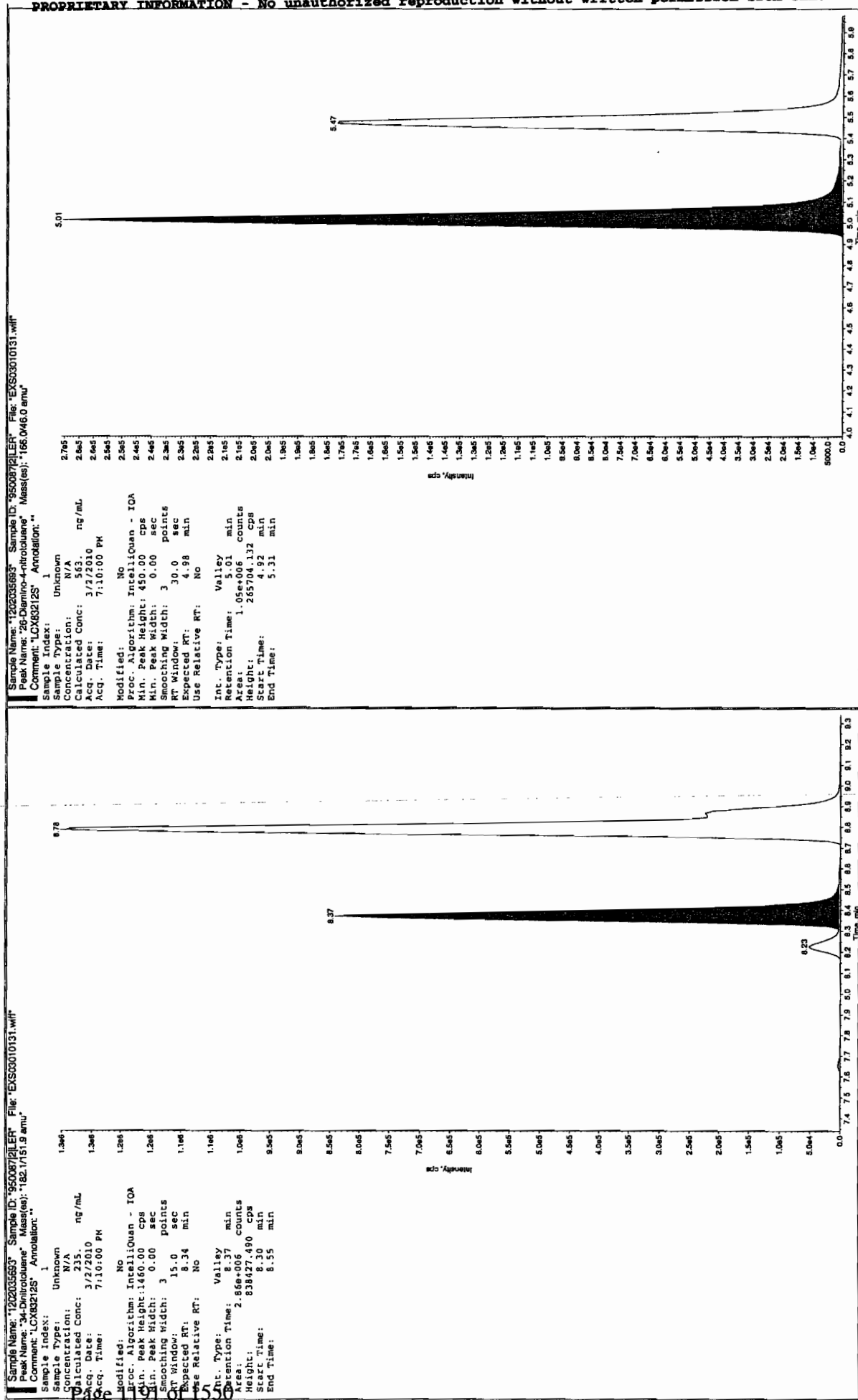
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3/27/2010
 Acq. Date: 7:10:00 PM
 Acq. Time: 7:10:00 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.94 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 7.00 min
 Area: 6.07e+005 counts
 Height: 145410.797 cps
 Start Time: 6.87 min
 End Time: 7.83 min



Sample Name: "120203563" Sample ID: "95008721ER" File: "EX503010131.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCX832125" Annotation: ""

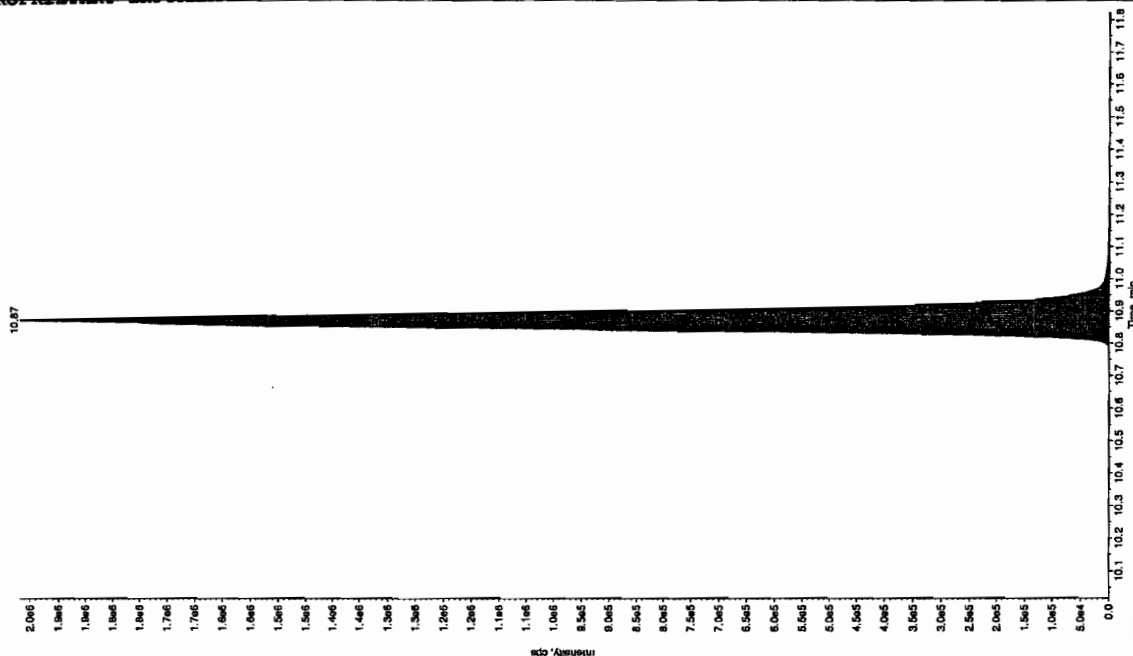
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3/27/2010
 Acq. Date: 7:10:00 PM
 Acq. Time: 7:10:00 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.19 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.23 min
 Area: 3.45e+006 counts
 Height: 988353.699 cps
 Start Time: 8.16 min
 End Time: 8.33 min





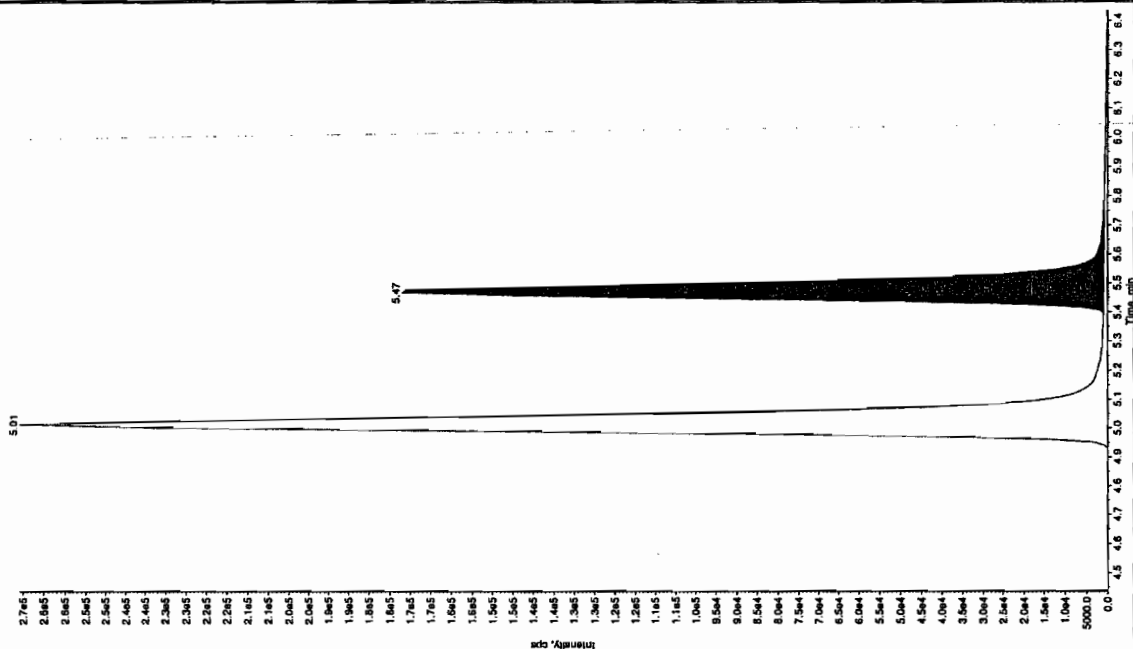
Sample Name: "120203563" Sample ID: "5500721ER" File: "EX50010131.wif"
 Peak Name: "Vis(O-crasy) phosphate" Mass(es): "369/191.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 461.
 Acq. Date: 3/2/2010
 Acq. Time: 7:10:00 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 7.25e+006 counts
 Height: 1967907.227 cps
 Start Time: 10.8 min
 End Time: 11.2 min



Sample Name: "120203563" Sample ID: "95008721ER" File: "EX50010131.wif"
 Peak Name: "24-Dimino-6-nitrobenzene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 521.
 Acq. Date: 3/2/2010
 Acq. Time: 7:10:00 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 5.44 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.47 min
 Area: 6.91e+005 counts
 Height: 171109.604 cps
 Start Time: 5.38 min
 End Time: 5.83 min



MISCELLANEOUS DATA

Prep Logbook Nitroaromatics and Nitramines by High Performance Liquid Chromatography (HPLC)

Batch ID: 950086 Verified by: _____
 Analyst: Sirena White
 Method: SW846 8330 PREP
 Lab SOP: GL-OA-E-033 REV# 17
 Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202035690 MB	16-FEB-2010 15:00:00	2	10	5
1202035691 LCS	16-FEB-2010 15:00:00	2	10	5
246434002	16-FEB-2010 15:00:00	2	10	5
1202035692 MS (246434002)	16-FEB-2010 15:00:00	2	10	5
1202035693 MSD (246434002)	16-FEB-2010 15:00:00	2	10	5
246434003	16-FEB-2010 15:00:00	2	10	5
246434004	16-FEB-2010 15:00:00	2	10	5
246434005	16-FEB-2010 15:00:00	2	10	5
246434006	16-FEB-2010 15:00:00	2	10	5
246434007	16-FEB-2010 15:00:00	2	10	5
246434008	16-FEB-2010 15:00:00	2	10	5
246434009	16-FEB-2010 15:00:00	2	10	5
246434010	16-FEB-2010 15:00:00	2	10	5
246434011	16-FEB-2010 15:00:00	2	10	5
246434012	16-FEB-2010 15:00:00	2	10	5
246434013	16-FEB-2010 15:00:00	2	10	5
246434014	16-FEB-2010 15:00:00	2	10	5
246434015	16-FEB-2010 15:00:00	2	10	5
246442002	16-FEB-2010 15:00:00	2	10	5
246442003	16-FEB-2010 15:00:00	2	10	5
246442004	16-FEB-2010 15:00:00	2	10	5
246442005	16-FEB-2010 15:00:00	2	10	5
246442006	16-FEB-2010 15:00:00	2	10	5

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202035691	8321 Explosives LCS	IXX100208-03	.1	mL	Final Solvent: ACN
LCS	1202035691	8321 LANL Explosives Mix 10mg/L	UXX100210-02.1	1	mL	
MS	1202035692	8321 Explosives LCS	IXX100208-03	.1	mL	
MS	1202035692	8321 LANL Explosives Mix 10mg/L	UXX100210-02.1	1	mL	
MSD	1202035693	8321 Explosives LCS	IXX100208-03	.1	mL	
MSD	1202035693	8321 LANL Explosives Mix 10mg/L	UXX100210-02.1	1	mL	
SURR	All	3,4-Dinitrotoluene (8330 Surrogate) 100ppm	EXP100215-02	.05	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS #1

Date: 03/23/10
 Extr. Injection Volume: 50µL
 Sequence Number: 032310expA
 Initial Calibration Date: 03/23/10
 Method: SW846 8321A-Modified
 Int. Std.: UXX100309-01.2
 Mobile Phase Lot#: 1289327, 1281642
 Standard-Samp Reagent Lot#: 1283379, 1284736
 Reviewed BY: *41 ML*
 Date: *03/24/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100323-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
EXP0323001a	XIBLK01	MAP	3/23/10 9:08			1		USE	B
EXP0323002a	XIBLK01	MAP	3/23/10 9:38			1		USE	B
EXP0323003a	WXXICAL-01	MAP	3/23/10 10:08			1		USE	I
EXP0323004a	WXXICAL-02	MAP	3/23/10 10:37			1		USE	I
EXP0323005a	WXXICAL-03	MAP	3/23/10 11:07			1		USE	I
EXP0323006a	WXXICAL-04	MAP	3/23/10 11:36			1		USE	I
EXP0323007a	WXXICAL-05	MAP	3/23/10 12:05			1		USE	I
EXP0323008a	WXXICAL-06	MAP	3/23/10 12:35			1		USE	I
EXP0323009a	XIBLK02	MAP	3/23/10 13:04			1		USE	B
EXP0323010a	WXXICV	MAP	3/23/10 13:34			1		USE	C
EXP0323011a	XIBLK03	MAP	3/23/10 14:03			1		USE	B
EXP0323012a	WXXCRI	MAP	3/23/10 14:33			1		USE	C
EXP0323013a	247562004	MAP	3/23/10 15:02	956045	10-1950	2	LANL	USE	S
EXP0323014a	247565007	MAP	3/23/10 15:32	956053	10-1956	2	LANL	USE	S
EXP0323015a	247565008	MAP	3/23/10 16:01	956053	10-1956	2	LANL	USE	S
EXP0323016a	247565009	MAP	3/23/10 16:31	956053	10-1956	2	LANL	USE	S
EXP0323017a	247565010	MAP	3/23/10 17:00	956053	10-1956	2	LANL	USE	S
EXP0323018a	1202035690	MAP	3/23/10 17:30	950087	Various	2	LANL	USE	S
EXP0323019a	1202035691	MAP	3/23/10 17:59	950087	Various	2	LANL	USE	S
EXP0323020a	246434002	MAP	3/23/10 18:29	950087	10-1620	2	LANL	USE	S
EXP0323021a	1202035692	MAP	3/23/10 18:58	950087	10-1620	2	LANL	USE	S
EXP0323022a	1202035693	MAP	3/23/10 19:28	950087	10-1620	2	LANL	USE	S
EXP0323023a	WXXCCV	MAP	3/23/10 19:57			1		USE	C
EXP0323024a	XIBLK04	MAP	3/23/10 20:27			1		USE	B
EXP0323025a	WXXCRI	MAP	3/23/10 20:56			1		USE	C
EXP0323026a	246434003	MAP	3/23/10 21:26	950087	10-1620	2	LANL	USE	S
EXP0323027a	246434004	MAP	3/23/10 21:55	950087	10-1620	2	LANL	USE	S
EXP0323028a	246434005	MAP	3/23/10 22:25	950087	10-1620	2	LANL	USE	S
EXP0323029a	246434006	MAP	3/23/10 22:54	950087	10-1620	2	LANL	USE	S

EXP0323030a	246434007	MAP	3/23/10 23:24	950087	10-1620	2	LANL	USE	S
EXP0323031a	246434008	MAP	3/23/10 23:53	950087	10-1620	2	LANL	USE	S
EXP0323032a	246434009	MAP	3/24/10 0:23	950087	10-1620	2	LANL	USE	S
EXP0323033a	246434010	MAP	3/24/10 0:52	950087	10-1620	2	LANL	USE	S
EXP0323034a	246434011	MAP	3/24/10 1:22	950087	10-1620	2	LANL	USE	S
EXP0323035a	246434012	MAP	3/24/10 1:51	950087	10-1620	2	LANL	USE	S
EXP0323036a	WXXCCV	MAP	3/24/10 2:21			1		USE	C
EXP0323037a	XIBLK05	MAP	3/24/10 2:50			1		USE	B
EXP0323038a	WXXCRI	MAP	3/24/10 3:20			1		USE	C
EXP0323039a	246434013	MAP	3/24/10 3:49	950087	10-1620	2	LANL	USE	S
EXP0323040a	246434014	MAP	3/24/10 4:19	950087	10-1620	2	LANL	USE	S
EXP0323041a	246434015	MAP	3/24/10 4:48	950087	10-1620	2	LANL	USE	S
EXP0323042a	246442002	MAP	3/24/10 5:18	950087	10-1623	2	LANL	USE	S
EXP0323043a	246442003	MAP	3/24/10 5:47	950087	10-1623	2	LANL	USE	S
EXP0323044a	246442004	MAP	3/24/10 6:17	950087	10-1623	2	LANL	USE	S
EXP0323045a	246442005	MAP	3/24/10 6:46	950087	10-1623	2	LANL	USE	S
EXP0323046a	246442006	MAP	3/24/10 7:15	950087	10-1623	2	LANL	USE	S
EXP0323047a	WXXCCV	MAP	3/24/10 7:45			1		USE	C
EXP0323048a	XIBLK06	MAP	3/24/10 8:15			1		USE	B
EXP0323049a	WXXCRI	MAP	3/24/10 8:44			1		USE	C

GEL ORGANIC RUN LOG INSTRUMENT ID: LCMSMS4

Date: 03/01/10
 Extr. Injection Volume: 10uL
 Sequence Number: 030110exs
 Initial Calibration Date: 030110
 Method: 8321A-Modified
 Int. Std.: N/A
 Mobile Phase Lot#: 1268566, 1268568
 Standard-Samp Reagent Lot#: 1274562, 1261217
 Reviewed By: *Amie*
 Date: *2/26/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100301-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS03010001.wiff	XIBLK01	LER	3/1/2010 9:03			1		USE	B
EXS03010002.wiff	XIBLK01	LER	3/1/2010 9:19			1		USE	B
EXS03010003.wiff	WXXICAL-19	LER	3/1/2010 9:34			1		USE	I
EXS03010004.wiff	WXXICAL-20	LER	3/1/2010 9:50			1		USE	I
EXS03010005.wiff	WXXICAL-21	LER	3/1/2010 10:06			1		USE	I
EXS03010006.wiff	WXXICAL-22	LER	3/1/2010 10:21			1		USE	I
EXS03010007.wiff	WXXICAL-23	LER	3/1/2010 10:37			1		USE	I
EXS03010008.wiff	WXXICAL-24	LER	3/1/2010 10:53			1		USE	I
EXS03010009.wiff	WXXICAL-25	LER	3/1/2010 11:09			1		USE	I
EXS03010010.wiff	XIBLK02	LER	3/1/2010 11:24			1		USE	B
EXS03010011.wiff	WXXICV	LER	3/1/2010 11:40			1		USE	C
EXS03010012.wiff	XIBLK03	LER	3/1/2010 11:56			1		USE	B
EXS03010013.wiff	WXXCRI	LER	3/1/2010 12:11			1		USE	C
EXS03010014.wiff	246744003	LER	3/1/2010 12:27	952051	10-1736	2	LANL	USE	S
EXS03010015.wiff	246744004	LER	3/1/2010 12:43	952051	10-1736	2	LANL	USE	S
EXS03010016.wiff	246752002	LER	3/1/2010 12:59	952051	10-1745	2	LANL	USE	S
EXS03010017.wiff	246752003	LER	3/1/2010 13:14	952051	10-1745	2	LANL	USE	S
EXS03010018.wiff	246760001	LER	3/1/2010 13:30	952051	10-1739	2	LANL	USE	S
EXS03010019.wiff	246760002	LER	3/1/2010 13:46	952051	10-1739	2	LANL	USE	S
EXS03010020.wiff	246760003	LER	3/1/2010 14:01	952051	10-1739	2	LANL	USE	S
EXS03010021.wiff	246760004	LER	3/1/2010 14:17	952051	10-1739	2	LANL	USE	S
EXS03010022.wiff	246760005	LER	3/1/2010 14:33	952051	10-1739	2	LANL	USE	S
EXS03010023.wiff	246760006	LER	3/1/2010 14:49	952051	10-1739	2	LANL	USE	S
EXS03010024.wiff	WXXCCV	LER	3/1/2010 15:04			1		USE	C
EXS03010025.wiff	XIBLK04	LER	3/1/2010 15:20			1		USE	B
EXS03010026.wiff	WXXCRI	LER	3/1/2010 15:36			1		USE	C
EXS03010027.wiff	246760007	LER	3/1/2010 15:52	952051	10-1739	2	LANL	USE	S
EXS03010028.wiff	246760008	LER	3/1/2010 16:07	952051	10-1739	2	LANL	USE	S
EXS03010029.wiff	246760009	LER	3/1/2010 16:23	952051	10-1739	2	LANL	USE	S
EXS03010030.wiff	246760010	LER	3/1/2010 16:39	952051	10-1739	2	LANL	USE	S

[illegible]

EXS03010068.wiff	246856005	LER	3/2/2010 2:37	952690	10-1755	2	LANL	USE	S
EXS03010069.wiff	246856006	LER	3/2/2010 2:53	952690	10-1755	2	LANL	USE	S
EXS03010070.wiff	246856007	LER	3/2/2010 3:09	952690	10-1755	2	LANL	USE	S
EXS03010071.wiff	246856008	LER	3/2/2010 3:24	952690	10-1755	2	LANL	USE	S
EXS03010072.wiff	246856009	LER	3/2/2010 3:40	952690	10-1755	2	LANL	USE	S
EXS03010073.wiff	246856010	LER	3/2/2010 3:56	952690	10-1755	2	LANL	USE	S
EXS03010074.wiff	WXXCCV	LER	3/2/2010 4:11			1		USE	C
EXS03010075.wiff	XIBLK09	LER	3/2/2010 4:27			1		USE	B
EXS03010076.wiff	WXXCRI	LER	3/2/2010 4:43			1		USE	C
EXS03010077.wiff	1202035678	LER	3/2/2010 4:59	950081	VARIOUS	2	LANL	USE	S
EXS03010078.wiff	1202035679	LER	3/2/2010 5:15	950081	VARIOUS	2	LANL	USE	S
EXS03010079.wiff	246318001	LER	3/2/2010 5:30	950081	10-1564	2	LANL	USE	S
EXS03010080.wiff	246318002	LER	3/2/2010 5:46	950081	10-1564	2	LANL	USE	S
EXS03010081.wiff	246318003	LER	3/2/2010 6:02	950081	10-1564	2	LANL	USE	S
EXS03010082.wiff	246318004	LER	3/2/2010 6:17	950081	10-1564	2	LANL	USE	S
EXS03010083.wiff	246318005	LER	3/2/2010 6:33	950081	10-1564	2	LANL	USE	S
EXS03010084.wiff	246318006	LER	3/2/2010 6:49	950081	10-1564	2	LANL	USE	S
EXS03010085.wiff	246318007	LER	3/2/2010 7:05	950081	10-1564	2	LANL	USE	S
EXS03010086.wiff	246318008	LER	3/2/2010 7:20	950081	10-1564	2	LANL	USE	S
EXS03010087.wiff	WXXCCV	LER	3/2/2010 7:36			1		USE	C
EXS03010088.wiff	XIBLK10	LER	3/2/2010 7:52			1		USE	B
EXS03010089.wiff	WXXCRI	LER	3/2/2010 8:08			1		USE	C
EXS03010090.wiff	246318009	LER	3/2/2010 8:23	950081	10-1564	2	LANL	USE	S
EXS03010091.wiff	246330002	LER	3/2/2010 8:39	950081	10-1567	2	LANL	USE	S
EXS03010092.wiff	1202035680	LER	3/2/2010 8:55	950081	10-1567	2	LANL	USE	S
EXS03010093.wiff	1202035681	LER	3/2/2010 9:11	950081	10-1567	2	LANL	USE	S
EXS03010094.wiff	246330003	LER	3/2/2010 9:26	950081	10-1567	2	LANL	USE	S
EXS03010095.wiff	246330004	LER	3/2/2010 9:42	950081	10-1567	2	LANL	USE	S
EXS03010096.wiff	246330005	LER	3/2/2010 9:58	950081	10-1567	2	LANL	USE	S
EXS03010097.wiff	246330006	LER	3/2/2010 10:14	950081	10-1567	2	LANL	USE	S
EXS03010098.wiff	246330007	LER	3/2/2010 10:29	950081	10-1567	2	LANL	USE	S
EXS03010099.wiff	246330008	LER	3/2/2010 10:45	950081	10-1567	2	LANL	USE	S
EXS03010100.wiff	WXXCCV	LER	3/2/2010 11:01			1		USE	C
EXS03010101.wiff	XIBLK11	LER	3/2/2010 11:17			1		USE	B
EXS03010102.wiff	WXXCRI	LER	3/2/2010 11:32			1		USE	C
EXS03010103.wiff	246330009	LER	3/2/2010 11:48	950081	10-1567	2	LANL	USE	S
EXS03010104.wiff	246330010	LER	3/2/2010 12:04	950081	10-1567	2	LANL	USE	S

EXS03010105.wiff	XIBLK12	LER	3/2/2010 12:20	956029	VARIOUS	1	LANL	USE	B
EXS03010106.wiff	1202049788	LER	3/2/2010 12:36	956029	VARIOUS	2	LANL	USE	S
EXS03010107.wiff	1202049789	LER	3/2/2010 12:51	956029	VARIOUS	2	LANL	USE	S
EXS03010108.wiff	247429004	LER	3/2/2010 13:07	956029	10-1926	2	LANL	USE	S
EXS03010109.wiff	1202049790	LER	3/2/2010 13:23	956029	10-1926	2	LANL	USE	S
EXS03010110.wiff	1202049791	LER	3/2/2010 13:39	956029	10-1926	2	LANL	USE	S
EXS03010111.wiff	WXXCCV	LER	3/2/2010 13:54			1		USE	C
EXS03010112.wiff	XIBLK13	LER	3/2/2010 14:10			1		USE	B
EXS03010113.wiff	WXXCRI	LER	3/2/2010 14:26			1		USE	C
EXS03010114.wiff	247432006	LER	3/2/2010 14:42	956029	10-1928	2	LANL	USE	S
EXS03010115.wiff	1202049868	LER	3/2/2010 14:57	956029	10-1928	2	LANL	USE	S
EXS03010116.wiff	1202049869	LER	3/2/2010 15:13	956029	10-1928	2	LANL	USE	S
EXS03010117.wiff	247437006	LER	3/2/2010 15:29	956029	10-1931	2	LANL	USE	S
EXS03010118.wiff	246318002	LER	3/2/2010 15:45	950081	10-1564	2	LANL	USE	S
EXS03010119.wiff	246318004	LER	3/2/2010 16:01	950081	10-1564	2	LANL	USE	S
EXS03010120.wiff	246318006	LER	3/2/2010 16:16	950081	10-1564	2	LANL	USE	S
EXS03010121.wiff	246318001	LER	3/2/2010 16:32	950081	10-1564	10	LANL	USE	S
EXS03010122.wiff	246318003	LER	3/2/2010 16:48	950081	10-1564	10	LANL	USE	S
EXS03010123.wiff	246318005	LER	3/2/2010 17:03	950081	10-1564	10	LANL	USE	S
EXS03010124.wiff	WXXCCV	LER	3/2/2010 17:19			1		USE	C
EXS03010125.wiff	XIBLK14	LER	3/2/2010 17:35			1		USE	B
EXS03010126.wiff	WXXCRI	LER	3/2/2010 17:51			1		USE	C
EXS03010127.wiff	1202035690	LER	3/2/2010 18:07	950087	VARIOUS	2	LANL	USE	S
EXS03010128.wiff	1202035691	LER	3/2/2010 18:22	950087	VARIOUS	2	LANL	USE	S
EXS03010129.wiff	246434002	LER	3/2/2010 18:38	950087	10-1620	2	LANL	USE	S
EXS03010130.wiff	1202035692	LER	3/2/2010 18:54	950087	10-1620	2	LANL	USE	S
EXS03010131.wiff	1202035693	LER	3/2/2010 19:10	950087	10-1620	2	LANL	USE	S
EXS03010132.wiff	246434003	LER	3/2/2010 19:25	950087	10-1620	2	LANL	USE	S
EXS03010133.wiff	246434004	LER	3/2/2010 19:41	950087	10-1620	2	LANL	USE	S
EXS03010134.wiff	246434005	LER	3/2/2010 19:57	950087	10-1620	2	LANL	USE	S
EXS03010135.wiff	246434006	LER	3/2/2010 20:12	950087	10-1620	2	LANL	USE	S
EXS03010136.wiff	246434007	LER	3/2/2010 20:28	950087	10-1620	2	LANL	USE	S
EXS03010137.wiff	WXXCCV	LER	3/2/2010 20:44			1		USE	C
EXS03010138.wiff	XIBLK15	LER	3/2/2010 21:00			1		USE	B
EXS03010139.wiff	WXXCRI	LER	3/2/2010 21:15			1		USE	C
EXS03010140.wiff	246434008	LER	3/2/2010 21:31	950087	10-1620	2	LANL	USE	S
EXS03010141.wiff	246434009	LER	3/2/2010 21:47	950087	10-1620	2	LANL	USE	S

EXS03010142.wiff	246434010	LER	3/2/2010 22:03	950087	10-1620	2	LANL	USE	S
EXS03010143.wiff	246434011	LER	3/2/2010 22:18	950087	10-1620	2	LANL	USE	S
EXS03010144.wiff	246434012	LER	3/2/2010 22:34	950087	10-1620	2	LANL	USE	S
EXS03010145.wiff	246434013	LER	3/2/2010 22:50	950087	10-1620	2	LANL	USE	S
EXS03010146.wiff	246434014	LER	3/2/2010 23:06	950087	10-1620	2	LANL	USE	S
EXS03010147.wiff	246434015	LER	3/2/2010 23:21	950087	10-1620	2	LANL	USE	S
EXS03010148.wiff	246442002	LER	3/2/2010 23:37	950087	10-1623	2	LANL	USE	S
EXS03010149.wiff	246442003	LER	3/2/2010 23:53	950087	10-1623	2	LANL	USE	S
EXS03010150.wiff	WXXCCV	LER	3/3/2010 0:09			1		USE	C
EXS03010151.wiff	XIBLK16	LER	3/3/2010 0:24			1		USE	B
EXS03010152.wiff	WXXCRI	LER	3/3/2010 0:40			1		USE	C
EXS03010153.wiff	246442004	LER	3/3/2010 0:56	950087	10-1623	2	LANL	DUSE-RA	S
EXS03010154.wiff	246442005	LER	3/3/2010 1:12	950087	10-1623	2	LANL	DUSE-RA	S
EXS03010155.wiff	246442006	LER	3/3/2010 1:27	950087	10-1623	2	LANL	DUSE-RA	S
EXS03010156.wiff	XIBLK17	LER	3/3/2010 1:43			1		DUSE-RA	B
EXS03010157.wiff	1202035603	LER	3/3/2010 1:59	950039	VARIOUS	2	LANL	DUSE-RA	S
EXS03010158.wiff	1202035604	LER	3/3/2010 2:15	950039	VARIOUS	2	LANL	DUSE-RA	S
EXS03010159.wiff	246289008	LER	3/3/2010 2:31	950039	10-1590	2	LANL	DUSE-RA	S
EXS03010160.wiff	1202035607	LER	3/3/2010 2:46	950039	10-1590	2	LANL	DUSE-RA	S
EXS03010161.wiff	1202035608	LER	3/3/2010 3:02	950039	10-1590	2	LANL	DUSE-RA	S
EXS03010162.wiff	246301006	LER	3/3/2010 3:18	950039	10-1596	2	LANL	DUSE-RA	S
EXS03010163.wiff	WXXCCV	LER	3/3/2010 3:34			1		DUSE-RA	C
EXS03010164.wiff	XIBLK18	LER	3/3/2010 3:49			1		DUSE-RA	B
EXS03010165.wiff	WXXCRI	LER	3/3/2010 4:05			1		DUSE-RA	C
EXS03010166.wiff	246301011	LER	3/3/2010 4:21	950039	10-1596	2	LANL	DUSE-RA	S
EXS03010167.wiff	246345006	LER	3/3/2010 4:37	950039	10-1614	2	LANL	DUSE-RA	S
EXS03010168.wiff	246473005	LER	3/3/2010 4:52	950039	10-1643	2	LANL	DUSE-RA	S
EXS03010169.wiff	246475004	LER	3/3/2010 5:08	950039	10-1645	2	LANL	DUSE-RA	S
EXS03010170.wiff	246479004	LER	3/3/2010 5:24	950039	10-1654	2	LANL	DUSE-RA	S
EXS03010171.wiff	1202035605	LER	3/3/2010 5:40	950039	10-1654	2	LANL	DUSE-RA	S
EXS03010172.wiff	1202035606	LER	3/3/2010 5:55	950039	10-1654	2	LANL	DUSE-RA	S
EXS03010173.wiff	WXXCCV	LER	3/3/2010 6:11			1		DUSE-RA	C
EXS03010174.wiff	XIBLK19	LER	3/3/2010 6:27			1		DUSE-RA	B
EXS03010175.wiff	WXXCRI	LER	3/3/2010 6:43			1		DUSE-RA	C

GC SEMIVOLATILE PCB ANALYSIS

**PCB Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1620**

Method/Analysis Information

Procedure: Analysis of Polychlorinated Biphenyls by ECD
Analytical Method: SW846 8082
Prep Method: SW846 3550B
Analytical Batch Number: 952059, 953772, 954435
Prep Batch Number: 952047, 953770, 954434

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8082:

Sample ID	Client ID
246434011	RE15-10-8336
246434013	RE15-10-8337
246434014	RE15-10-8375
246434015	RE15-10-8374
1202040495	Method Blank (MB) (Batch 952059)
1202040496	Laboratory Control Sample (LCS) (Batch 952059)
246434012	RE15-10-8339
1202044726	Method Blank (MB) (Batch 953772)
1202044727	Laboratory Control Sample (LCS) (Batch 953772)
1202044728	Laboratory Control Sample Duplicate (LCSD) (Batch 953772)
246434010	RE15-10-8338
1202045980	Method Blank (MB) (Batch 954435)
1202045981	Laboratory Control Sample (LCS) (Batch 954435)
1202045982	246434010(RE15-10-8338) Matrix Spike (MS) (Batch 954435)
1202045983	246434010(RE15-10-8338) Matrix Spike Duplicate (MSD) (Batch 954435)

The samples in this SDG were analyzed on a "dry weight" basis.

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-040 REV# 15.

Raw data reports are processed and reviewed by the analyst using the Target software package. False positives have been removed from the Target quantitation reports per standard operating procedures (SOP) section 23.0.

Calibration Information

Please note that the 'Cal Date' indicated on each quantitation report reflects the date and time of the most recent calibrated analyte(s) in the Target processing method. Since the laboratory may calibrate with multiple solutions on different days using the same processing method, the Target software will update the 'Cal Date' to the last calibration file, date and time. The correct dates and times for all calibration files are located on the Calibration History report in the Standard Data section in the data package.

Due to software limitations, the Calibration Summary Form 6 may not indicate all the calibration files comprising the initial calibration. A complete list of the initial calibration data files are shown in the Calibration History report located in the Standard Data section of the data package.

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

The linear equation used in Target and indicated on the initial calibration summary form is not a conventional linear equation (slope intercept formula) and does not match the equation found in SW-846 method 8000B. The x and y axes are inversed in Target, so that the instrument response is treated as the independent variable (x) and the concentration ratio is treated as the dependent variable (y). The equation used in Target to calculate sample results is adjusted to account for the linear equation inversion and reciprocal slope. The adjusted calculation has been independently verified to produce valid results.

Continuing Calibration Verification (CCV) Requirements

All calibration verification standards(CVS, ICV, or CCV) requirements have not been met for this SDG.

Aroclor-1016 failed acceptance criteria with a negative bias on one analytical column in the standards bracketing the samples in this SDG. There were no PCB patterns detected on either of the columns.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Laboratory Control Sample Duplicate (LCSD) Recovery

The LCSD spike recoveries met the acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement

The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation

Sample 246434010(RE15-10-8338) was selected for the matrix spike and matrix spike duplicate analysis in batches 952059 and 954435. The parent sample was re-extracted; therefore not reported from batch 952059. The MS and MSD results will be reported from batch 954435.

The matrix spike and matrix spike duplicate analysis was not performed for batch 953772. The LCS and LCSD analysis was performed to measure the precision and accuracy for this batch.

Matrix Spike (MS) Recovery Statement

The MS recoveries for this SDG were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries for this SDG were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD(s) between the MS and MSD met the acceptance limits.

Technical Information

Holding Time Specifications

GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection of sample receipt. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP. All sample extracts were cleaned using alumina. Additionally, copper was added to all sample extracts to remove sulfur.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Sample 246434010 (RE15-10-8338) was re-extracted twice due to the results not matching the first extraction. The third extraction will be reported.

Miscellaneous Information

Electronic Package Comment

The following package was generated using an electronic data processing program referred to as "virtual packaging". In an effort to increase quality and efficiency, the laboratory is developing systems to eventually generate all data packages electronically. The following change from "traditional" packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative of each electronic package will indicate the analyst, reviewer, and report specialist names associated with the generation of the data and package. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Data Exception (DER) Documentation

Data exception reports (DERs) are for documentation of any procedural anomalies that may deviate from referenced SOP or contractual document. A DER was not required for this SDG.

Manual Integrations

Certain standards and samples may have required manual integration to correctly position the baseline as set in the calibration standard injections. If manual integration was performed, copies of all manual integration peak profiles are included in the raw data section of this PCB fraction.

Additional Comments

The additional comments field is used to address special issues associated with each analysis, clarify method/contractual issues pertaining to the analysis, and to list any report documents generated as a result of sample analysis or review. The following additional comments were required:

The higher results from either column have been chosen and reported in the data package for the client samples, MB and LCS. The data reported for the LCSD is from the same analytical column as the LCS. The data reported for the MS and MSD are from the same analytical column as the parent sample.

The data reported on the form I and III may differ slightly from the data reported on the form X. This is due to software limitations in rounding differences between the forms.

Aroclors quantitated on the raw data report by the Target data system do not necessarily represent positive Aroclor identification. In order for positive identification to be made, the Aroclor must match in pattern and retention time; as well as quantitate relatively close between the primary and confirmation columns, as specified in SW846 method 8000. When these conditions are not met, the Aroclor is reported as a non-detect on the data report. These situations will be noted on the raw data as DMP, representing does not match pattern, or DNC does not confirm.

Due to software limitation, the Form VIIs will display the results either in the % difference or % drift depending on the type of the calibration curve. If the curve of all analytes is generated using an average response factor (RF), the Form VII will display results using the %difference calculation (RF). If the curve of one or more analytes is generated using a linear curve, the Form VII will display results using the % drift calculation (by concentration) for all analytes.

System Configuration

The Semi-Volatiles-PCB analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
ECD1A.I_1	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP I	30m x 0.25mm, 0.25um (Rtx-CLPesticide)
ECD1A.I_2	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP II	30m x 0.25mm, 0.20um (Rtx-CLPesticideII)


Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer: 

Date: 03-05-10

Roadmap for LANL 10-1620 PCB

This roadmap was analyzed by yip00818 on 02-19-2010, 15:58.

This roadmap was reviewed by jim01140 on 02-22-2010, 07:49.

This roadmap was packaged by yml on 03-04-2010, 19:57.

This roadmap was validated by jcb on 03-05-2010, 09:23.

Front Sample Column

exclude	manual	datafile	smgid	sampletype	injdte	injtme	sublist	clientid	dilution	prepbatchid	comment
<input checked="" type="checkbox"/>	N	/chem/ecdlia.021510.b035f3501.d	246434010	sample	15-FEB-2010	13:16	10-1620.sub	RE15-10-8338	1.00000	952059	DUSE SURROGATE LOW
<input checked="" type="checkbox"/>	N	/chem/ecdlia.021510.b038f3801.d	246434010	sample	15-FEB-2010	13:47	10-1620.sub	RE15-10-8338	1.00000	952059	DUSE CONFIRMS FILE 35 WAS NOT A BAD INJECTION
<input checked="" type="checkbox"/>	N	/chem/ecdlia.021710.b015f1501.d	246434010	sample	17-FEB-2010	09:10	10-1620.sub	RE15-10-8338	1.00000	953772	DUSE RE RESULT DID NOT MATCH WIOTH ORIGINAL
<input type="checkbox"/>	N	/chem/ecdlia.021910.b020f2001.d	246434010	sample	19-FEB-2010	10:55	10-1620.sub	RE15-10-8338	1.00000	954435	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdlia.021510.b039f3901.d	246434011	sample	15-FEB-2010	13:58	10-1620.sub	RE15-10-8336	1.00000	952059	UPLOAD BOTH COLUMNS, USE HIGHER
<input checked="" type="checkbox"/>	N	/chem/ecdlia.021510.b040f4001.d	246434012	sample	15-FEB-2010	14:08	10-1620.sub	RE15-10-8339	1.00000	952059	DUSE RE 4CMX LOW
<input type="checkbox"/>	N	/chem/ecdlia.021710.b016f1601.d	246434012	sample	17-FEB-2010	09:22	10-1620.sub	RE15-10-8339	1.00000	953772	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdlia.021510.b043f4301.d	246434013	sample	15-FEB-2010	14:42	10-1620.sub	RE15-10-8337	1.00000	952059	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdlia.021510.b044f4401.d	246434014	sample	15-FEB-2010	14:53	10-1620.sub	RE15-10-8375	1.00000	952059	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdlia.021510.b045f4501.d	246434015	sample	15-FEB-2010	15:05	10-1620.sub	RE15-10-8374	1.00000	952059	UPLOAD BOTH COLUMNS, USE HIGHER

Back Sample Column

exclude	manual	datafile	smgid	sampletype	injdte	injtme	sublist	clientid	dilution	prepbatchid	comment
<input checked="" type="checkbox"/>	N	/chem/ecdlia.021510.b035f3501.d	246434010	sample	15-FEB-2010	13:16	10-1620.sub	RE15-10-8338	1.00000	952059	DUSE SURROGATE LOW
<input checked="" type="checkbox"/>	N	/chem/ecdlia.021510.b038f3801.d	246434010	sample	15-FEB-2010	13:47	10-1620.sub	RE15-10-8338	1.00000	952059	DUSE CONFIRMS FILE 35 WAS NOT A BAD INJECTION
<input checked="" type="checkbox"/>	N	/chem/ecdlia.021710.b015f1501.d	246434010	sample	17-FEB-2010	09:10	10-1620.sub	RE15-10-8338	1.00000	953772	DUSE RE RESULT DID NOT MATCH WIOTH ORIGINAL
<input type="checkbox"/>	N	/chem/ecdlia.021910.b020f2001.d	246434010	sample	19-FEB-2010	10:55	10-1620.sub	RE15-10-8338	1.00000	954435	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdlia.021510.b039f3901.d	246434011	sample	15-FEB-2010	13:58	10-1620.sub	RE15-10-8336	1.00000	952059	UPLOAD BOTH COLUMNS, USE HIGHER
<input checked="" type="checkbox"/>	N	/chem/ecdlia.021510.b040f4001.d	246434012	sample	15-FEB-2010	14:08	10-1620.sub	RE15-10-8339	1.00000	952059	DUSE RE 4CMX LOW
<input type="checkbox"/>	N	/chem/ecdlia.021710.b016f1601.d	246434012	sample	17-FEB-2010	09:22	10-1620.sub	RE15-10-8339	1.00000	953772	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdlia.021510.b043f4301.d	246434013	sample	15-FEB-2010	14:42	10-1620.sub	RE15-10-8337	1.00000	952059	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdlia.021510.b044f4401.d	246434014	sample	15-FEB-2010	14:53	10-1620.sub	RE15-10-8375	1.00000	952059	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdlia.021510.b045f4501.d	246434015	sample	15-FEB-2010	15:05	10-1620.sub	RE15-10-8374	1.00000	952059	UPLOAD BOTH COLUMNS, USE HIGHER

Front QC Sample Column

exclude	manual	datafile	smgid	sampletype	injdte	injtme	sublist	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecdlia.021510.b020f2001-3.d	1202040495	mb	15-FEB-2010	10:34	10-1620.sub	PBLK01	1.00000	952059	
<input type="checkbox"/>	N	/chem/ecdlia.021710.b012f1201.d	1202044726	mb	17-FEB-2010	08:32	10-1620.sub	PBLK02	1.00000	953772	UPLOAD BOTH COLUMNS, USE HIGHER

<input type="checkbox"/>	N	/chem/ecd1a.i/021910.b/018f1801.d	1202045980	mb	19-FEB-2010	10:34	10-1620.sub	PBLK03	1.00000	954435	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/021510.b/021f2101-3.d	1202040496	lcs	15-FEB-2010	10:44	10-1620.sub	PBLK01LCS	1.00000	952059	
<input type="checkbox"/>	N	/chem/ecd1a.i/021710.b/013f1301.d	1202044727	lcs	17-FEB-2010	08:45	10-1620.sub	PBLK02LCS	1.00000	953772	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/021910.b/019f1901.d	1202045981	lcs	19-FEB-2010	10:45	10-1620.sub	PBLK03LCS	1.00000	954435	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/021710.b/014f1401.d	1202044728	lcsd	17-FEB-2010	08:57	10-1620.sub	PBLK02LCSD	1.00000	953772	UPLOAD BOTH COLUMNS, USE HIGHER
<input checked="" type="checkbox"/>	N	/chem/ecd1a.i/021510.b/036f3601.d	1202040497	ms	15-FEB-2010	13:26	10-1620.sub	RE15-10-8338MS	1.00000	952059	DUSE SURROGATE PASSED
<input type="checkbox"/>	N	/chem/ecd1a.i/021910.b/021f2101.d	1202045982	ms	19-FEB-2010	11:08	10-1620.sub	RE15-10-8338MS	1.00000	954435	UPLOAD BOTH COLUMNS, USE HIGHER
<input checked="" type="checkbox"/>	N	/chem/ecd1a.i/021510.b/037f3701.d	1202040498	msd	15-FEB-2010	13:37	10-1620.sub	RE15-10-8338MSD	1.00000	952059	DUSE SURROGATE PASSED
<input type="checkbox"/>	N	/chem/ecd1a.i/021910.b/022f2201.d	1202045983	msd	19-FEB-2010	11:20	10-1620.sub	RE15-10-8338MSD	1.00000	954435	UPLOAD BOTH COLUMNS, USE HIGHER

Back QC Sample Column

exclude	manual	datafile	smptid	sampletype	injdate	injtime	sublist	chemid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/021510.b/020b2001-3.d	1202040495	mb	15-FEB-2010	10:34	10-1620.sub	PBLK01	1.00000	952059	
<input type="checkbox"/>	N	/chem/ecd1a.i/021710.b/012b1201.d	1202044726	mb	17-FEB-2010	08:32	10-1620.sub	PBLK02	1.00000	953772	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/021910.b/018b1801.d	1202045980	mb	19-FEB-2010	10:34	10-1620.sub	PBLK03	1.00000	954435	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/021510.b/021b2101-3.d	1202040496	lcs	15-FEB-2010	10:44	10-1620.sub	PBLK01LCS	1.00000	952059	
<input type="checkbox"/>	N	/chem/ecd1a.i/021710.b/013b1301.d	1202044727	lcs	17-FEB-2010	08:45	10-1620.sub	PBLK02LCS	1.00000	953772	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/021910.b/019b1901.d	1202045981	lcs	19-FEB-2010	10:45	10-1620.sub	PBLK03LCS	1.00000	954435	UPLOAD BOTH COLUMNS, USE HIGHER

<input type="checkbox"/>	N	/chem/ecd1a.i/021710.b/014b1401.d	1202044728	lcsd	17-FEB-2010	08:57	10-1620.sub	PBLK02LCSD	1.00000	953772	UPLOAD BOTH COLUMNS, USE HIGHER
<input checked="" type="checkbox"/>	N	/chem/ecd1a.i/021510.b/036b3601.d	1202040497	ms	15-FEB-2010	13:26	10-1620.sub	RE15-10-8338MS	1.00000	952059	DUSE SURROGATE PASSED
<input type="checkbox"/>	N	/chem/ecd1a.i/021910.b/021b2101.d	1202045982	ms	19-FEB-2010	11:08	10-1620.sub	RE15-10-8338MS	1.00000	954435	UPLOAD BOTH COLUMNS, USE HIGHER
<input checked="" type="checkbox"/>	N	/chem/ecd1a.i/021510.b/037b3701.d	1202040498	msd	15-FEB-2010	13:37	10-1620.sub	RE15-10-8338MSD	1.00000	952059	DUSE SURROGATE PASSED
<input type="checkbox"/>	N	/chem/ecd1a.i/021910.b/022b2201.d	1202045983	msd	19-FEB-2010	11:20	10-1620.sub	RE15-10-8338MSD	1.00000	954435	UPLOAD BOTH COLUMNS, USE HIGHER

SAMPLE DATA SUMMARY

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1620
Lab Sample ID: 246434011

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8082
Inst: ECDIA.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 17.6
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8336
Batch ID: 952059
Run Date: 02/15/2010 13:58
Prep Date: 02/12/2010 12:41
Data File: 039f3901.d
039b3901.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.04	ug/kg	1.35	4.04	1
11104-28-2	Aroclor-1221	U	4.04	ug/kg	1.35	4.04	1
11141-16-5	Aroclor-1232	U	4.04	ug/kg	1.35	4.04	1
53469-21-9	Aroclor-1242	U	4.04	ug/kg	1.35	4.04	1
12672-29-6	Aroclor-1248	U	4.04	ug/kg	1.35	4.04	1
11097-69-1	Aroclor-1254	U	4.04	ug/kg	1.35	4.04	1
11096-82-5	Aroclor-1260	U	4.04	ug/kg	1.35	4.04	1

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1620
Lab Sample ID: 246434013

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15

Matrix: R
%Moisture: 11.4
Project: LANL01004
SOP Ref: GL-OA-E-040

Client ID: RE15-10-8337

Client: LANL010

Dilution: 1

Batch ID: 952059

Method: SW846 8082

Inj. Vol: 1 uL

Run Date: 02/15/2010 14:42

Inst: ECD1A.I

Final Volume: 1 mL

Prep Date: 02/12/2010 12:41

Analyst: YS1

Level: LOW

Data File: 043f4301.d

Column: 1 CLP1

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.76	ug/kg	1.25	3.76	1
11104-28-2	Aroclor-1221	U	3.76	ug/kg	1.25	3.76	1
11141-16-5	Aroclor-1232	U	3.76	ug/kg	1.25	3.76	1
53469-21-9	Aroclor-1242	U	3.76	ug/kg	1.25	3.76	1
12672-29-6	Aroclor-1248	U	3.76	ug/kg	1.25	3.76	1
11097-69-1	Aroclor-1254	U	3.76	ug/kg	1.25	3.76	1
11096-82-5	Aroclor-1260	U	3.76	ug/kg	1.25	3.76	1

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1620
Lab Sample ID: 246434010

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.07 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 22.4
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.28	ug/kg	1.43	4.28	1
11104-28-2	Aroclor-1221	U	4.28	ug/kg	1.43	4.28	1
11141-16-5	Aroclor-1232	U	4.28	ug/kg	1.43	4.28	1
53469-21-9	Aroclor-1242	U	4.28	ug/kg	1.43	4.28	1
12672-29-6	Aroclor-1248	U	4.28	ug/kg	1.43	4.28	1
11097-69-1	Aroclor-1254	U	4.28	ug/kg	1.43	4.28	1
11096-82-5	Aroclor-1260	U	4.28	ug/kg	1.43	4.28	1

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1620
Lab Sample ID: 246434012

Date Collected: 02/02/2010 12:00

Matrix: R

Date Received: 02/06/2010 09:15

%Moisture: 6

Client: LANL010

Project: LANL01004

Client ID: RE15-10-8339

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 953772

Inst: ECD1A.J

Dilution: 1

Run Date: 02/17/2010 09:22

Analyst: YS1

Inj. Vol: 1 uL

Prep Date: 02/16/2010 20:08

Aliquot: 30.05 g

Final Volume: 1 mL

Data File: 016f1601.d

Column: 1 CLP1

Level: LOW

016b1601.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.54	ug/kg	1.18	3.54	1
11104-28-2	Aroclor-1221	U	3.54	ug/kg	1.18	3.54	1
11141-16-5	Aroclor-1232	U	3.54	ug/kg	1.18	3.54	1
53469-21-9	Aroclor-1242	U	3.54	ug/kg	1.18	3.54	1
12672-29-6	Aroclor-1248	U	3.54	ug/kg	1.18	3.54	1
11097-69-1	Aroclor-1254	U	3.54	ug/kg	1.18	3.54	1
11096-82-5	Aroclor-1260	U	3.54	ug/kg	1.18	3.54	1

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1620
Lab Sample ID: 246434015

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 6.3
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8374
Batch ID: 952059
Run Date: 02/15/2010 15:05
Prep Date: 02/12/2010 12:41
Data File: 045f4501.d
045b4501.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.56	ug/kg	1.18	3.56	1
11104-28-2	Aroclor-1221	U	3.56	ug/kg	1.18	3.56	1
11141-16-5	Aroclor-1232	U	3.56	ug/kg	1.18	3.56	1
53469-21-9	Aroclor-1242	U	3.56	ug/kg	1.18	3.56	1
12672-29-6	Aroclor-1248	U	3.56	ug/kg	1.18	3.56	1
11097-69-1	Aroclor-1254	U	3.56	ug/kg	1.18	3.56	1
11096-82-5	Aroclor-1260	U	3.56	ug/kg	1.18	3.56	1

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1620
Lab Sample ID: 246434014

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.01 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 19.7
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8375
Batch ID: 952059
Run Date: 02/15/2010 14:53
Prep Date: 02/12/2010 12:41
Data File: 044f4401.d
044b4401.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.15	ug/kg	1.38	4.15	1
11104-28-2	Aroclor-1221	U	4.15	ug/kg	1.38	4.15	1
11141-16-5	Aroclor-1232	U	4.15	ug/kg	1.38	4.15	1
53469-21-9	Aroclor-1242	U	4.15	ug/kg	1.38	4.15	1
12672-29-6	Aroclor-1248	U	4.15	ug/kg	1.38	4.15	1
11097-69-1	Aroclor-1254	U	4.15	ug/kg	1.38	4.15	1
11096-82-5	Aroclor-1260	U	4.15	ug/kg	1.38	4.15	1

QUALITY CONTROL SUMMARY

PCB
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-1620

Matrix Type: SOLID

CAP Column (1) : CLP1

CAP Column (2) : CLP2

Sample ID	Client ID	4CMX 1 %REC #	4CMX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #
1202040495	MB for batch 952047	66	64	66	68
1202040496	LCS for batch 952047	67	64	67	69
246434011	RE15-10-8336	48	46	54	53
246434013	RE15-10-8337	50	49	56	55
246434014	RE15-10-8375	45	44	49	51
246434015	RE15-10-8374	52	51	56	58
1202044726	MB for batch 953770	57	56	52	58
1202044727	LCS for batch 953770	59	58	50	60
1202044728	LCSD for batch 953770	58	57	53	61
246434012	RE15-10-8339	58	58	61	61
1202045980	MB for batch 954434	53	59	66	68
1202045981	LCS for batch 954434	58	63	68	70
246434010	RE15-10-8338	44	48	54	55
1202045982	RE15-10-8338MS	46	50	55	56
1202045983	RE15-10-8338MSD	43	47	54	54

Surrogate**Acceptance Limits**

4CMX = 4cmx

(32%-120%)

DCB = Decachlorobiphenyl

(30%-116%)

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

PCB

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**Quality Control Summary
Spike Recovery Report**

SDG Number: 10-1620

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 952047

Matrix: SOIL

Lab Sample ID:1202040496

Instrument: ECD1A.I

Analysis Date: 02/15/2010 10:44

Dilution: 1

Analyst: YS1

Prep Batch ID: 952047

Inj. Vol: 1 uL

Batch ID: 952059

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	LCS Aroclor-1016	33.3	0.0	23.1	69	39-102
11096-82-5	LCS Aroclor-1260	33.3	0.0	26.7	80	45-118

PCB

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**Quality Control Summary
Spike Recovery Report****SDG Number: 10-1620****Sample Type: Laboratory Control Sample****Client ID: LCS for batch 953770****Matrix: SOIL****Lab Sample ID:1202044727****Instrument: ECD1A.I****Analysis Date: 02/17/2010 08:45****Dilution: 1****Analyst: YS1****Prep Batch ID: 953770****Inj. Vol: 1 uL****Batch ID: 953772**

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	LCS Aroclor-1016	33.3	0.0	19.8	59	39-102
11096-82-5	LCS Aroclor-1260	33.3	0.0	23.0	69	45-118

PCB

Page 2 of 2

**Quality Control Summary
Spike Recovery Report**

SDG Number: 10-1620

Sample Type: Laboratory Control Sample Duplicate

Client ID: LCSD for batch 953770

Matrix: SOIL

Lab Sample ID:1202044728

Instrument: ECD1A.I

Analysis Date: 02/17/2010 08:57

Dilution: 1

Analyst: YS1

Prep Batch ID 953770

Inj. Vol: 1 uL

Batch ID: 953772

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
12674-11-2	LCSD Aroclor-1016	33.3	0.0	20.0	60	39-102	1	0-21
11096-82-5	LCSD Aroclor-1260	33.3	0.0	23.3	70	45-118	1	0-22

PCB

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**Quality Control Summary
Spike Recovery Report****SDG Number: 10-1620****Sample Type: Laboratory Control Sample****Client ID: LCS for batch 954434****Matrix: SOIL****Lab Sample ID:1202045981****Instrument: ECD1A.I****Analysis Date: 02/19/2010 10:45****Dilution: 1****Analyst: YS1****Prep Batch ID 954434****Inj. Vol: 1 uL****Batch ID: 954435**

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	LCS Aroclor-1016	33.3	0.0	20.8	62	39-102
11096-82-5	LCS Aroclor-1260	33.3	0.0	24.2	73	45-118

PCB

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**Quality Control Summary
Spike Recovery Report****SDG Number: 10-1620****Sample Type: Matrix Spike****Client ID: RE15-10-8338MS****Matrix: R****Lab Sample ID:1202045982****%Moisture: 22.4****Instrument: ECD1A.I****Analysis Date: 02/19/2010 11:08****Dilution: 1****Analyst: YS1****Prep Batch ID: 954434****Inj. Vol: 1 uL****Batch ID: 954435**

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	MS Aroclor-1016	42.9	0.00 U	20.5	48	23-119
11096-82-5	MS Aroclor-1260	42.9	0.00 U	25.0	58	28-124

PCB

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1620

Sample Type: Matrix Spike Duplicate

Client ID: RE15-10-8338MSD

Matrix: R

Lab Sample ID:1202045983

%Moisture: 22.4

Instrument: ECD1A.I

Analysis Date: 02/19/2010 11:20

Dilution: 1

Analyst: YSI

Prep Batch ID: 954434

Inj. Vol: 1 uL

Batch ID: 954435

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
12674-11-2	MSD Aroclor-1016	42.9	0.00 U	20.0	47	23-119	2	0-28
11096-82-5	MSD Aroclor-1260	42.9	0.00 U	23.7	55	28-124	5	0-30

Method Blank Summary

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SDG Number:	10-1620	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 952047	Instrument ID:	ECD1A.I_2	Data File:	020b2001-1.d
Lab Sample ID:	1202040495		ECD1A.I_1		020f2001-1.d
Column:	CLP2	Prep Date:	02/12/2010 12:41	Analyzed:	02/15/10 10:34
	CLP1	Level:	LOW		

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01 LCS for batch 952047	1202040496	021f2101-1.d 021b2101-1.d	02/15/10	1044
02 RE15-10-8336	246434011	039f3901.d 039b3901.d	02/15/10	1358
03 RE15-10-8337	246434013	043f4301.d 043b4301.d	02/15/10	1442
04 RE15-10-8375	246434014	044f4401.d 044b4401.d	02/15/10	1453
05 RE15-10-8374	246434015	045f4501.d 045b4501.d	02/15/10	1505

Method Blank Summary

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SDG Number:	10-1620	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 953770	Instrument ID:	ECD1A.J_2	Data File:	012b1201.d
Lab Sample ID:	1202044726		ECD1A.J_1		012f1201.d
Column:	CLP2	Prep Date:	02/16/2010 20:08	Analyzed:	02/17/10 08:32
	CLP1	Level:	LOW		

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01 LCS for batch 953770	1202044727	013f1301.d 013b1301.d	02/17/10	0845
02 LCSD for batch 953770	1202044728	014f1401.d 014b1401.d	02/17/10	0857
03 RE15-10-8339	246434012	016f1601.d 016b1601.d	02/17/10	0922

Method Blank Summary

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SDG Number:	10-1620	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 954434	Instrument ID:	ECD1AJ_2	Data File:	018b1801-1.d
Lab Sample ID:	1202045980		ECD1AJ_1		018f1801-1.d
Column:	CLP2	Prep Date:	02/18/2010 13:13	Analyzed:	02/19/10 10:34
	CLP1	Level:	LOW		

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01 LCS for batch 954434	1202045981	019f1901-1.d 019b1901-1.d	02/19/10	1045
02 RE15-10-8338	246434010	020f2001.d 020b2001.d	02/19/10	1055
03 RE15-10-8338MS	1202045982	021f2101.d 021b2101.d	02/19/10	1108
04 RE15-10-8338MSD	1202045983	022f2201.d 022b2201.d	02/19/10	1120

SAMPLE DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1620
Lab Sample ID: 246434011

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 17.6
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8336
Batch ID: 952059
Run Date: 02/15/2010 13:58
Prep Date: 02/12/2010 12:41
Data File: 039f3901.d
039b3901.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.04	ug/kg	1.35	4.04	1
11104-28-2	Aroclor-1221	U	4.04	ug/kg	1.35	4.04	1
11141-16-5	Aroclor-1232	U	4.04	ug/kg	1.35	4.04	1
53469-21-9	Aroclor-1242	U	4.04	ug/kg	1.35	4.04	1
12672-29-6	Aroclor-1248	U	4.04	ug/kg	1.35	4.04	1
11097-69-1	Aroclor-1254	U	4.04	ug/kg	1.35	4.04	1
11096-82-5	Aroclor-1260	U	4.04	ug/kg	1.35	4.04	1

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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021510.b/039f3901.d
Lab Smp Id: 246434011 Client Smp ID: RE15-10-8336
Inj Date : 15-FEB-2010 13:58
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |246434011|1|
Misc Info : |ECD82P_1S|952059|SVA|LANL|SOIL|RE15-10-8336|||
Comment :
Method : /chem/ecdl1a.i/021510.b/ECD1-F-8082-021110.m
Meth Date : 16-Feb-2010 06:56 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d
Als bottle: 39
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1620.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	17.55970	% Moisture

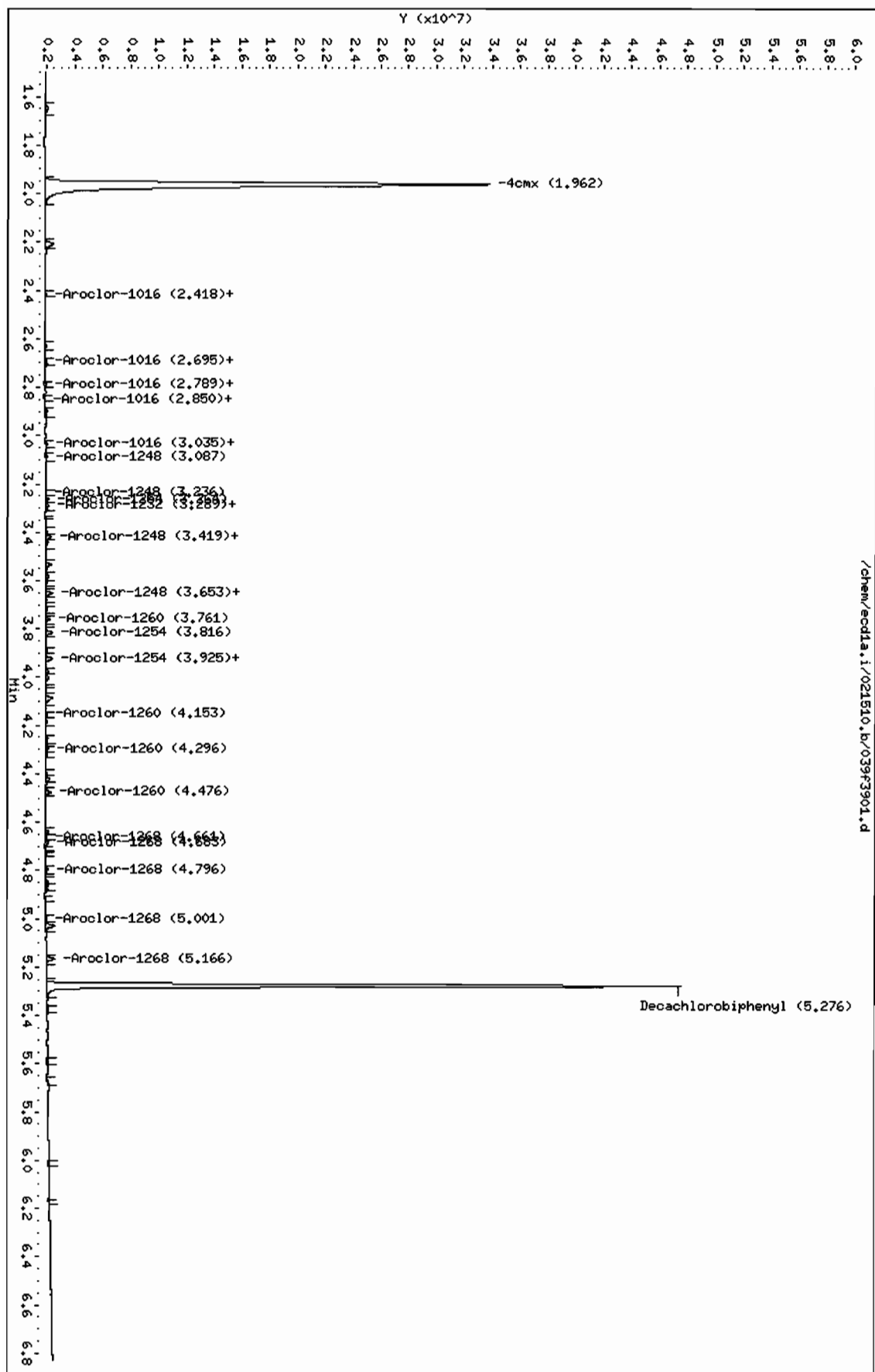
Cpnd Variable Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
\$ 11 4cmx						CAS #: 877-09-8	
1.962	1.963	-0.001	41542281	95.0254	3.8	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl						CAS #: 2051-24-3	
5.276	5.276	0.000	35733292	107.130	4.3	80.00- 120.00	100.00

Data File: /chem/ecdl1a.i/021510.b/039f3901.d
Date : 15-FEB-2010 13:58
Client ID: RE15-10-8336
Sample Info: 124643401111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl1a.i
Operator: YSL
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021510.b/039b3901.d
Lab Smp Id: 246434011 Client Smp ID: RE15-10-8336
Inj Date : 15-FEB-2010 13:58
Operator : YS1 Inst ID: ecdla.i
Smp Info : |246434011|1|
Misc Info : |ECD82P_1S|952059|SVA|LANL|SOIL|RE15-10-8336|||
Comment :
Method : /chem/ecdla.i/021510.b/ECD1-B-8082-021110.m
Meth Date : 16-Feb-2010 06:55 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
Als bottle: 39
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1620.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	17.55970	% Moisture

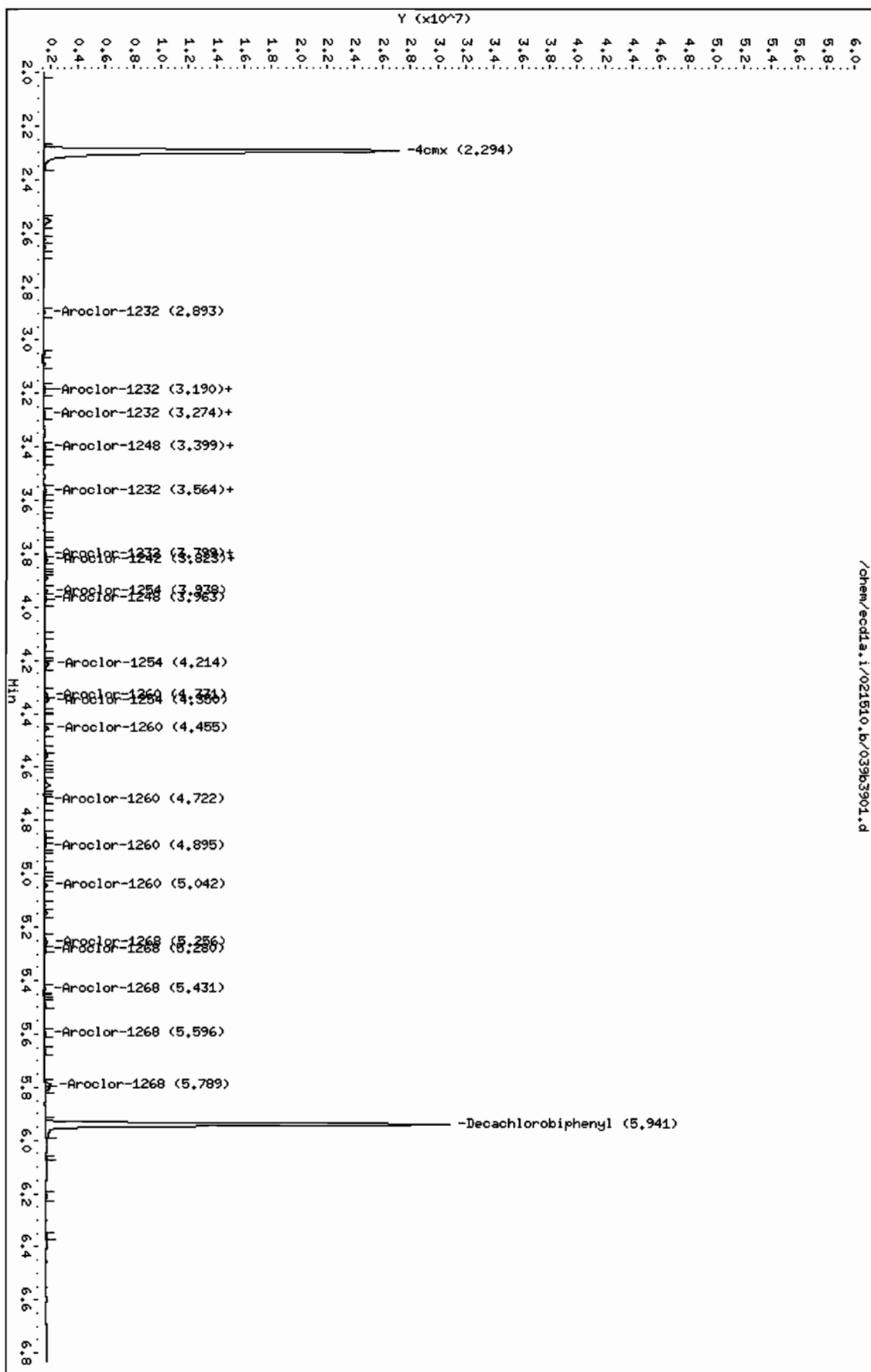
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
=====							
\$ 11 4cmx					CAS #: 877-09-8		
2.294	2.294	0.000	26600957	92.7148	3.7 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.941	5.942	-0.001	22627288	105.197	4.2 80.00- 120.00	100.00	

Data File: /chem/ecda.i/021510.b/039b3901.d
 Date: 15-FEB-2010 13:58
 Client ID: RE15-10-8336
 Sample Info: 124643401111
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecda.i
 Operator: YSI
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

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SDG Number: 10-1620
Lab Sample ID: 246434013

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

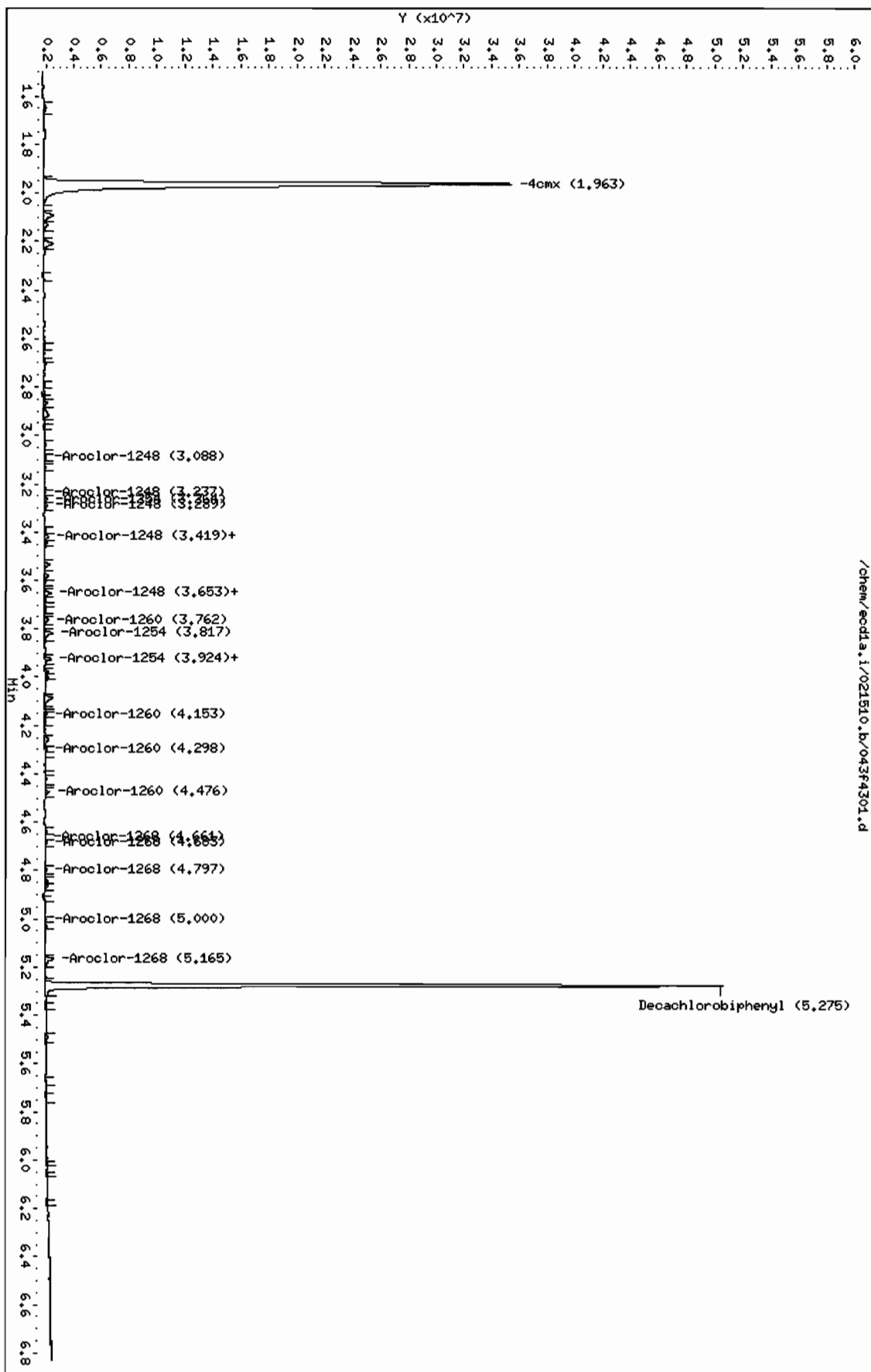
Matrix: R
%Moisture: 11.4
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8337
Batch ID: 952059
Run Date: 02/15/2010 14:42
Prep Date: 02/12/2010 12:41
Data File: 043f4301.d
043b4301.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.76	ug/kg	1.25	3.76	1
11104-28-2	Aroclor-1221	U	3.76	ug/kg	1.25	3.76	1
11141-16-5	Aroclor-1232	U	3.76	ug/kg	1.25	3.76	1
53469-21-9	Aroclor-1242	U	3.76	ug/kg	1.25	3.76	1
12672-29-6	Aroclor-1248	U	3.76	ug/kg	1.25	3.76	1
11097-69-1	Aroclor-1254	U	3.76	ug/kg	1.25	3.76	1
11096-82-5	Aroclor-1260	U	3.76	ug/kg	1.25	3.76	1

Data File: /chem/ecdl1a.i/021510.b/043f4301.d
 Date : 15-FEB-2010 14:42
 Client ID: REL5-10-8337
 Sample Info: 124643401311
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecdl1a.i
 Operator: YSI
 Column diameter: 0.25



Data File: /chem/ecd1a.i/021510.b/043b4301.d
Report Date: 16-Feb-2010 07:07

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd1a.i/021510.b/043b4301.d
Lab Smp Id: 246434013 Client Smp ID: RE15-10-8337
Inj Date : 15-FEB-2010 14:42
Operator : YSl Inst ID: ecd1a.i
Smp Info : |246434013|1|
Misc Info : |ECD82P_1S|952059|SVA|LANL|SOIL|RE15-10-8337|||
Comment :
Method : /chem/ecd1a.i/021510.b/ECD1-B-8082-021110.m
Meth Date : 16-Feb-2010 07:07 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
Als bottle: 43
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1620.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	888800.00000	% Moisture

Cpnd Variable Local Compound Variable

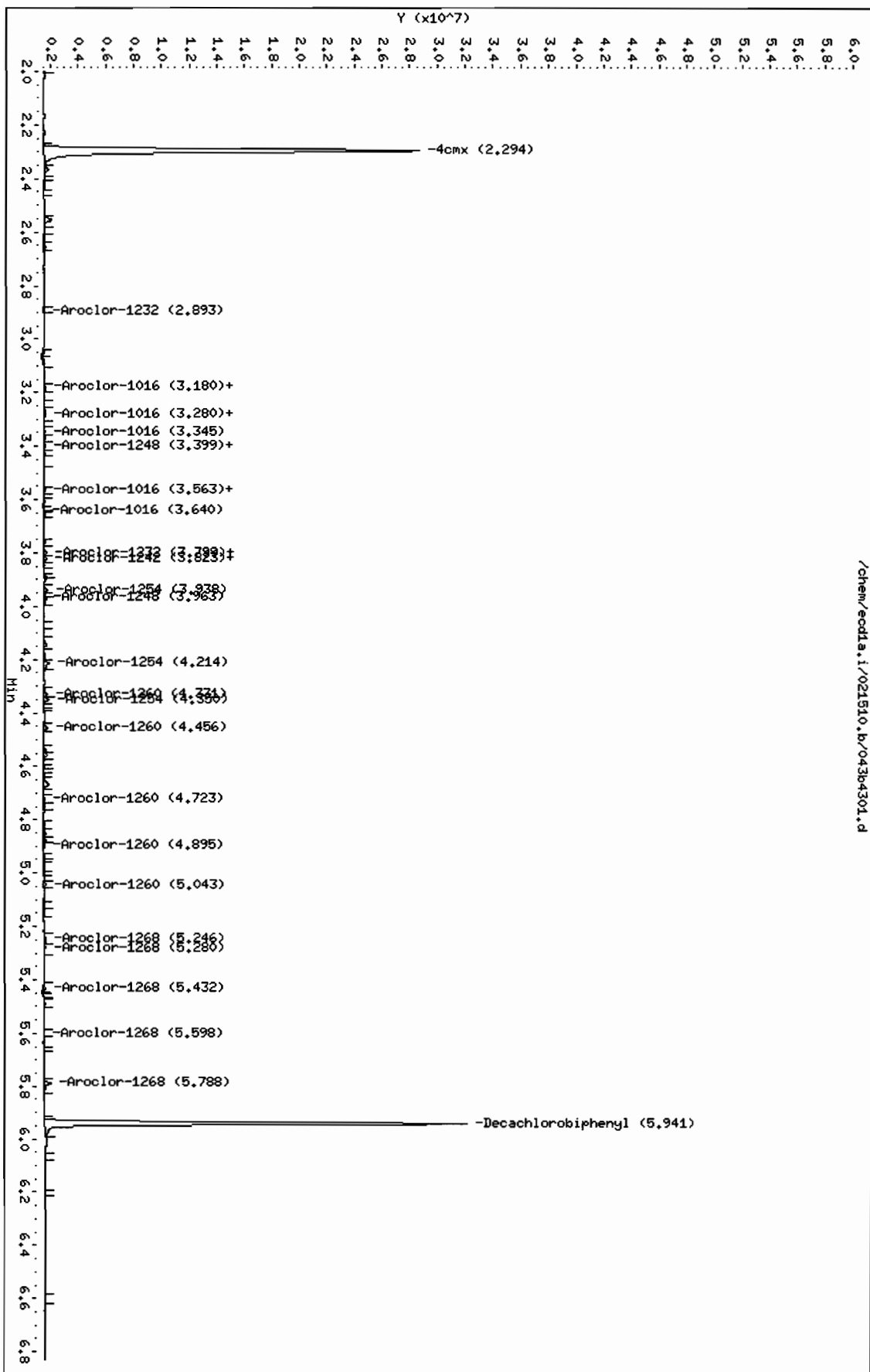
CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	

\$ 11 4cmx					CAS #: 877-09-8		
2.294	2.294	0.000	27903424	97.2544	97.2 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.941	5.942	-0.001	23594856	109.695	110 80.00- 120.00	100.00	

Data File: /chem/ecdl1.i/021510.b/043b4301.d
Date : 15-FEB-2010 14:42
Client ID: REL5-10-8337
Sample Info: 124643401311
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdl1.i
Operator: YSL
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

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SDG Number: 10-1620
Lab Sample ID: 246434010

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL.010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.07 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 22.4
Project: LANL.01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8338
Batch ID: 954435
Run Date: 02/19/2010 10:55
Prep Date: 02/18/2010 13:13
Data File: 020f2001.d
020b2001.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.28	ug/kg	1.43	4.28	1
11104-28-2	Aroclor-1221	U	4.28	ug/kg	1.43	4.28	1
11141-16-5	Aroclor-1232	U	4.28	ug/kg	1.43	4.28	1
53469-21-9	Aroclor-1242	U	4.28	ug/kg	1.43	4.28	1
12672-29-6	Aroclor-1248	U	4.28	ug/kg	1.43	4.28	1
11097-69-1	Aroclor-1254	U	4.28	ug/kg	1.43	4.28	1
11096-82-5	Aroclor-1260	U	4.28	ug/kg	1.43	4.28	1

Report Date: 19-Feb-2010 11:40

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021910.b/020f2001.d

Lab Smp Id: 246434010

Client Smp ID: RE15-10-8338

Inj Date : 19-FEB-2010 10:55

Operator : YS1

Inst ID: ecdla.i

Smp Info : |246434010|1|

Misc Info : |ECD82P_1S|954435|SVA|LANL|SOIL|RE15-10-8338|||

Comment :

Method : /chem/ecdla.i/021910.b/ECD1-F-8082-021110.m

Meth Date : 19-Feb-2010 11:39 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 20

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1620.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpclp1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.07000	Weight of sample extracted (g)
M	22.37800	% Moisture

Cpnd Variable

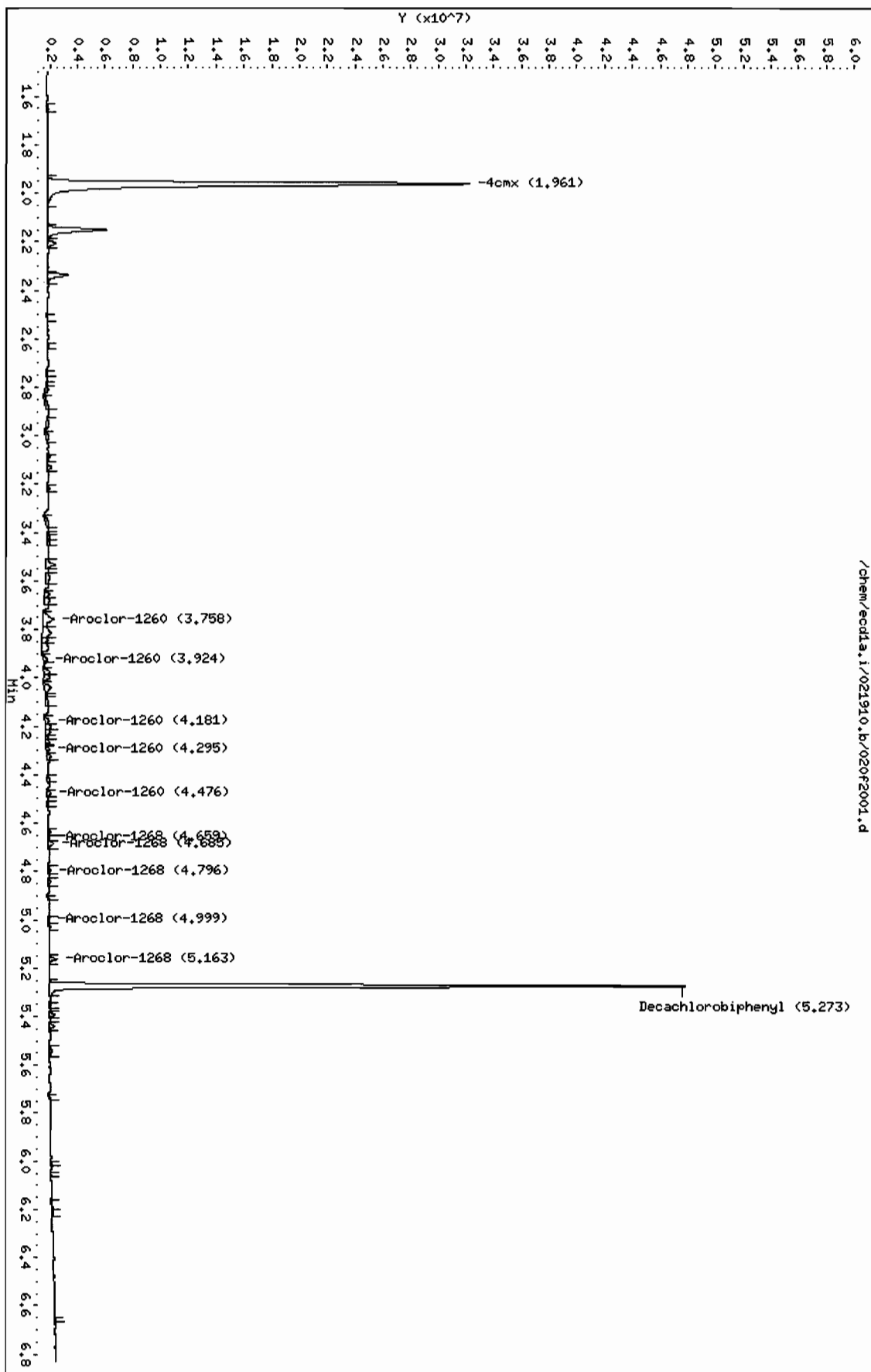
Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx				CAS #: 877-09-8			
1.961	1.960	0.001	38236160 87.4628	3.7	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.273	5.275	-0.002	35815168 107.376	4.6	80.00- 120.00	100.00	

Data File: /chem/ecda.i/021910.b/020f2001.d
Date : 19-FEB-2010 10:55
Client ID: RE15-10-8338
Sample Info: 124643401011
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecda.i
Operator: YS1
Column diameter: 0.25



Data File: /chem/ecd1a.i/021910.b/020b2001.d
Report Date: 19-Feb-2010 11:54

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd1a.i/021910.b/020b2001.d
Lab Smp Id: 246434010 Client Smp ID: RE15-10-8338
Inj Date : 19-FEB-2010 10:55
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |246434010|1|
Misc Info : |ECD82P_1S|954435|SVA|LANL|SOIL|RE15-10-8338|||
Comment :
Method : /chem/ecd1a.i/021910.b/ECD1-B-8082-021110.m
Meth Date : 19-Feb-2010 11:39 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1620.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.07000	Weight of sample extracted (g)
M	22.37800	% Moisture

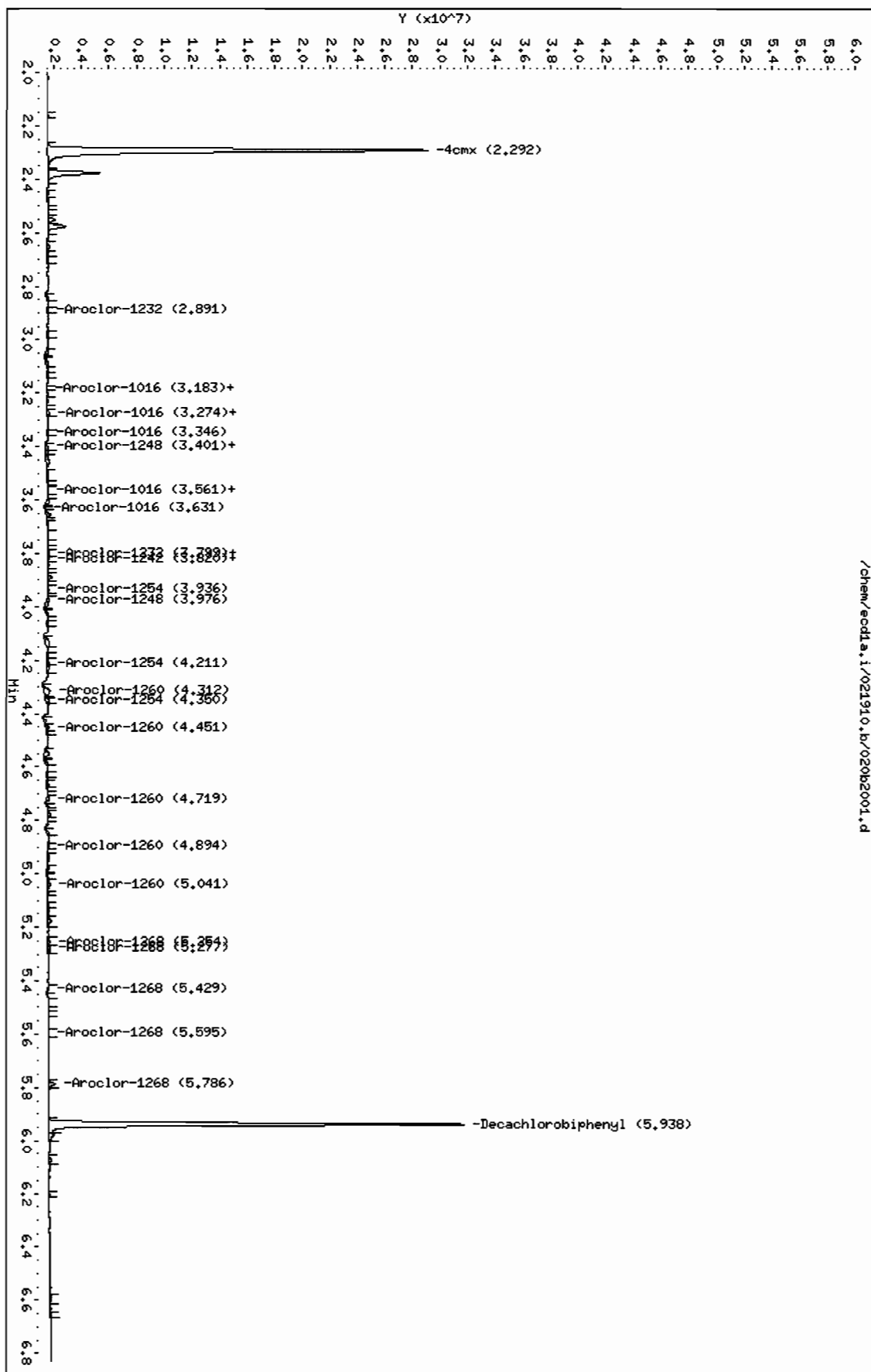
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
2.292	2.292	0.000	27751096	96.7235	4.1 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.938	5.940	-0.002	23477076	109.148	4.7 80.00- 120.00	100.00

Data File: /chem/ecdl1a.i/021910.b/020b2001.d
 Date: 19-FEB-2010 10:55
 Client ID: RE15-10-8338
 Sample Info: 124643401011
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecdl1a.i
 Operator: YS1
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1620
Lab Sample ID: 246434012

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.05 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 6
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8339
Batch ID: 953772
Run Date: 02/17/2010 09:22
Prep Date: 02/16/2010 20:08
Data File: 016f1601.d
016b1601.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.54	ug/kg	1.18	3.54	1
11104-28-2	Aroclor-1221	U	3.54	ug/kg	1.18	3.54	1
11141-16-5	Aroclor-1232	U	3.54	ug/kg	1.18	3.54	1
53469-21-9	Aroclor-1242	U	3.54	ug/kg	1.18	3.54	1
12672-29-6	Aroclor-1248	U	3.54	ug/kg	1.18	3.54	1
11097-69-1	Aroclor-1254	U	3.54	ug/kg	1.18	3.54	1
11096-82-5	Aroclor-1260	U	3.54	ug/kg	1.18	3.54	1

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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021710.b/016f1601.d

Lab Smp Id: 246434012Client Smp ID: RE15-10-8339

Inj Date : 17-FEB-2010 09:22

Operator : YS1Inst ID: ecdla.i

Smp Info : |246434012|1|

Misc Info : |ECD82P_1S|953772|SVA|LANL|SOIL|RE15-10-8339|

Comment :

Method : /chem/ecdla.i/021710.b/ECD1-F-8082-021110.m

Meth Date : 17-Feb-2010 10:07 yip00818Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47Cal File: 017f1701.d

Als bottle: 16

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: 10-1620.sub

Target Version: 3.50Sample Matrix: Soil

Processing Host: hpc1pl

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.05000	Weight of sample extracted (g)
M	5.98190	% Moisture

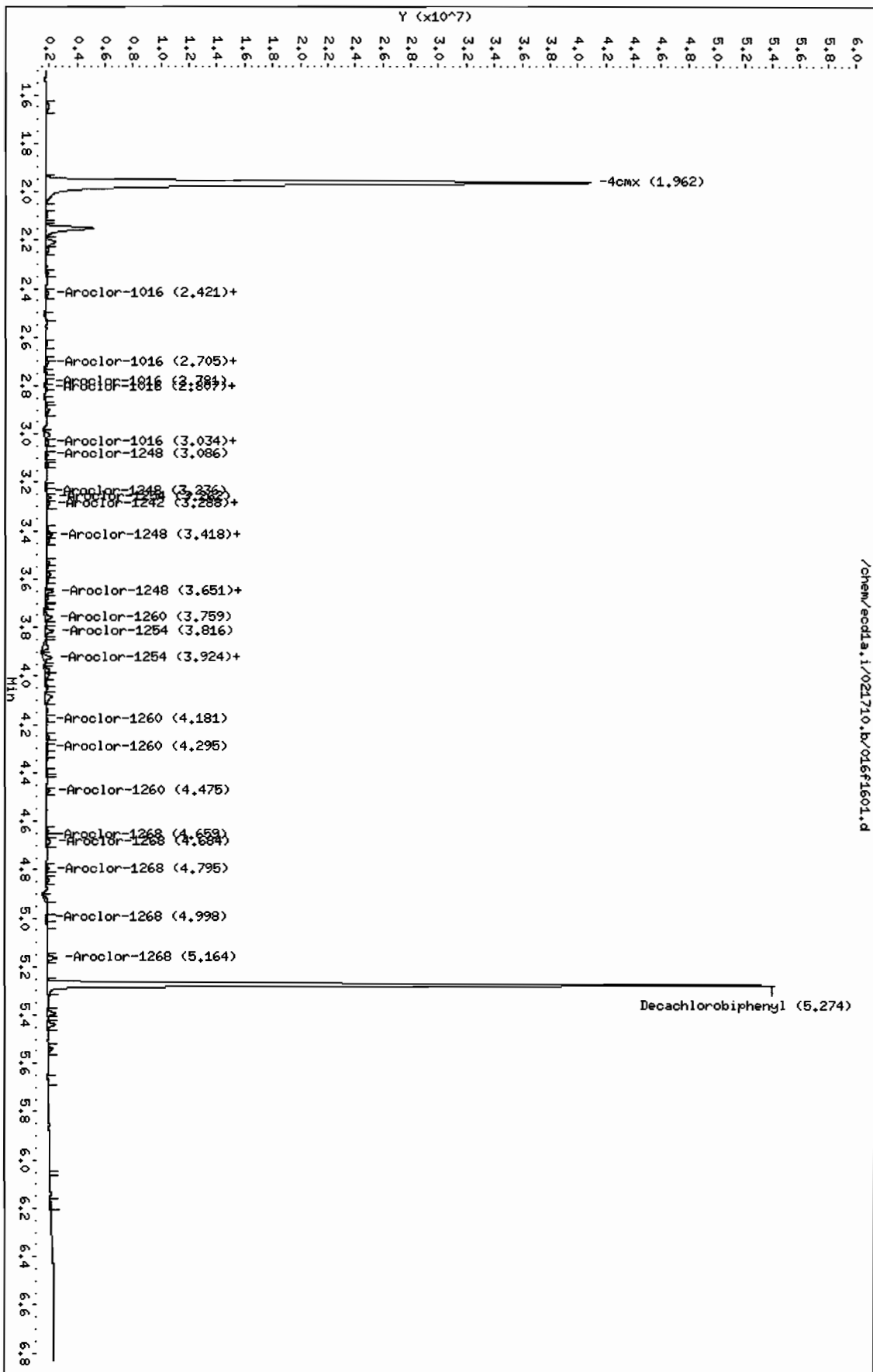
Cpnd VariableLocal Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8		
1.962	1.961	0.001	51147330	116.996	4.1 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.274	5.275	-0.001	40455976	121.289	4.3 80.00- 120.00	100.00

Data File: /chem/ecdl1a.i/021710.b/016f1601.d
Date: 17-FEB-2010 09:22
Client ID: RE15-10-8339
Sample Info: 124643401211
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl1a.i
Operator: YSL
Column diameter: 0.25



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RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021710.b/016b1601.d
 Lab Smp Id: 246434012 Client Smp ID: RE15-10-8339
 Inj Date : 17-FEB-2010 09:22
 Operator : YS1 Inst ID: ecdla.i
 Smp Info : |246434012|1|
 Misc Info : |ECD82P_1S|953772|SVA|LANL|SOIL|RE15-10-8339|||
 Comment :
 Method : /chem/ecdla.i/021710.b/ECD1-B-8082-021110.m
 Meth Date : 17-Feb-2010 10:07 yip00818 Quant Type: ESTD
 Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
 Als bottle: 16
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1620.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.05000	Weight of sample extracted (g)
M	5.98190	% Moisture

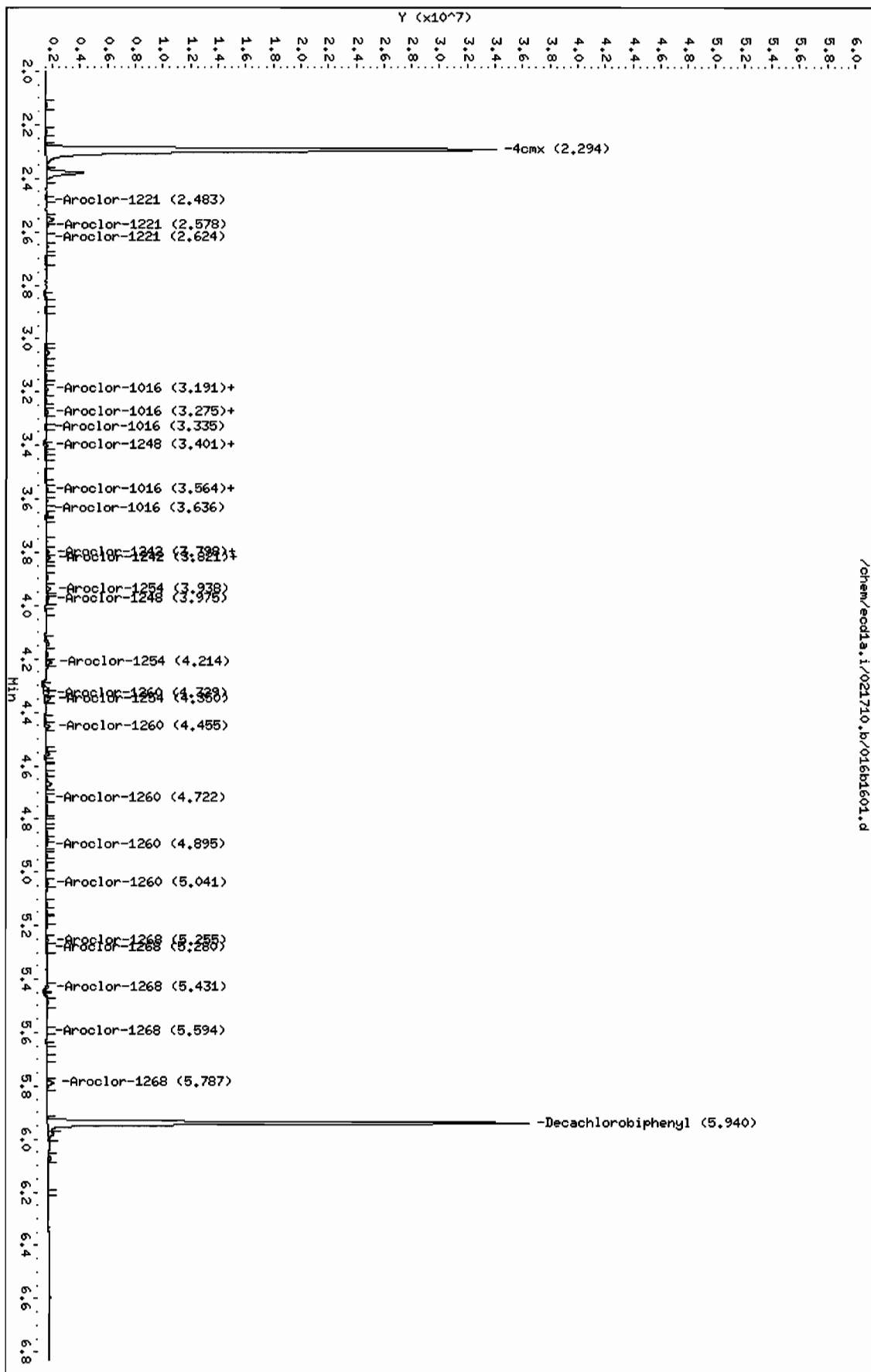
Cpnd Variable Local Compound Variable

CONCENTRATIONS								
			ON-COL	FINAL				
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
2.294	2.294	0.000	33273922	115.973	4.1	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.940	5.941	-0.001	26233304	121.962	4.3	80.00-	120.00	100.00

Data File: /chem/ecdl1a.i/021710.b/016b1601.d
 Date : 17-FEB-2010 09:22
 Client ID: RE15-10-8339
 Sample Info: 124643401211
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecdl1a.i
 Operator: YSL
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

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SDG Number: 10-1620
Lab Sample ID: 246434015

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 6.3
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8374
Batch ID: 952059
Run Date: 02/15/2010 15:05
Prep Date: 02/12/2010 12:41
Data File: 045f4501.d
045b4501.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.56	ug/kg	1.18	3.56	1
11104-28-2	Aroclor-1221	U	3.56	ug/kg	1.18	3.56	1
11141-16-5	Aroclor-1232	U	3.56	ug/kg	1.18	3.56	1
53469-21-9	Aroclor-1242	U	3.56	ug/kg	1.18	3.56	1
12672-29-6	Aroclor-1248	U	3.56	ug/kg	1.18	3.56	1
11097-69-1	Aroclor-1254	U	3.56	ug/kg	1.18	3.56	1
11096-82-5	Aroclor-1260	U	3.56	ug/kg	1.18	3.56	1

Data File: /chem/ecdla.i/021510.b/045f4501.d
Report Date: 16-Feb-2010 07:07

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021510.b/045f4501.d
Lab Smp Id: 246434015 Client Smp ID: RE15-10-8374
Inj Date : 15-FEB-2010 15:05
Operator : YS1 Inst ID: ecdla.i
Smp Info : |246434015|1|
Misc Info : |ECD82P_1S|952059|SVA|LANL|SOIL|RE15-10-8374|||
Comment :
Method : /chem/ecdla.i/021510.b/ECD1-F-8082-021110.m
Meth Date : 16-Feb-2010 07:07 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d
Als bottle: 45
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1620.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpclpl

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	6.31250	% Moisture

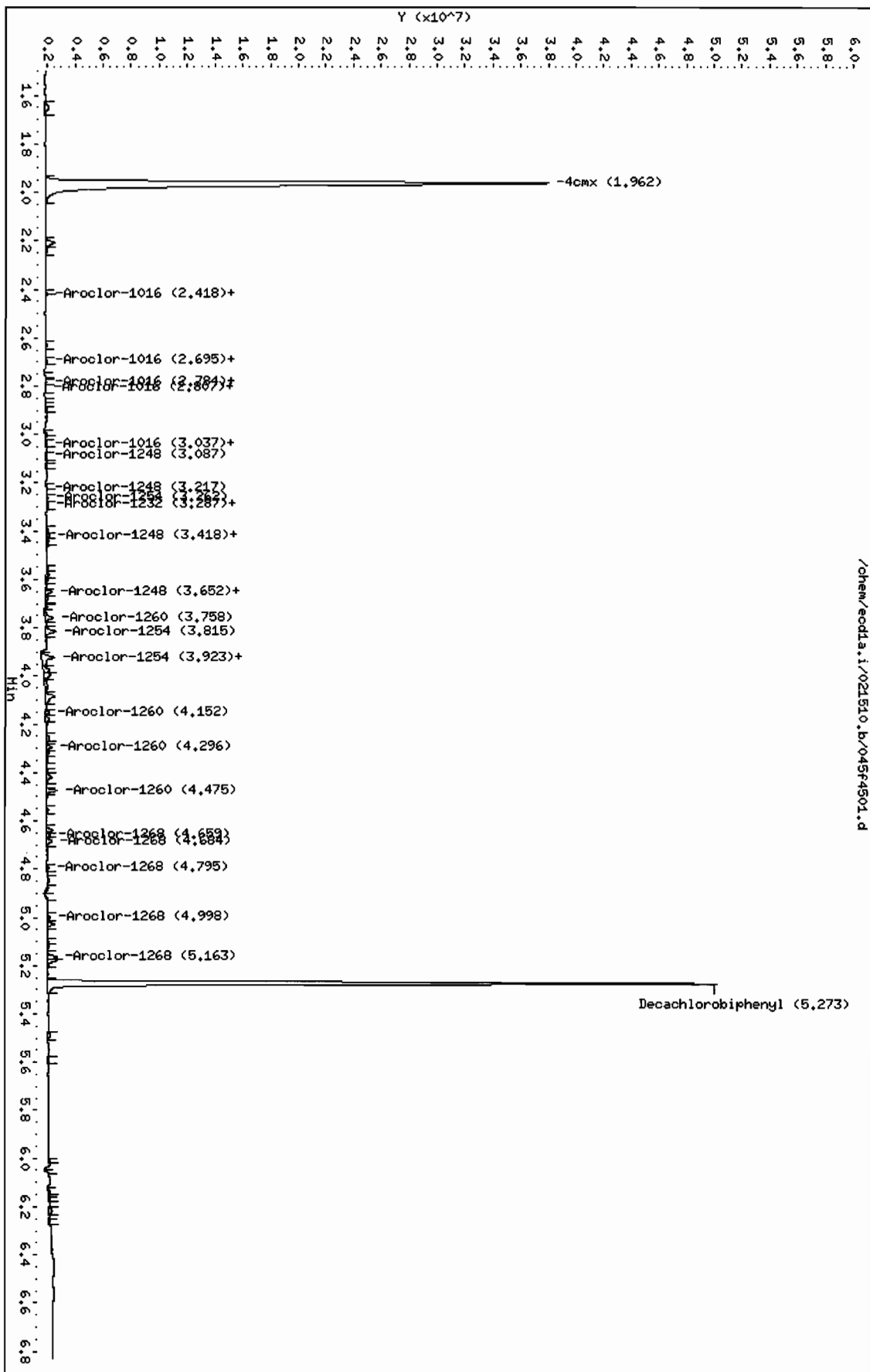
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL RESPONSE (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8	
1.962	1.963	-0.001	45647548	104.416	3.7 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.273	5.276	-0.003	37250422	111.679	4.0 80.00- 120.00	100.00

Data File: /chem/ecod1a.i/021510.b/045f4501.d
 Date : 15-FEB-2010 15:05
 Client ID: RE15-10-8374
 Sample Info: 124643401511
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecod1a.i
 Operator: YSL
 Column diameter: 0.25



Data File: /chem/ecdl1a.i/021510.b/045b4501.d
Report Date: 16-Feb-2010 07:07

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021510.b/045b4501.d
Lab Smp Id: 246434015 Client Smp ID: RE15-10-8374
Inj Date : 15-FEB-2010 15:05
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |246434015|1|
Misc Info : |ECD82P_1S|952059|SVA|LANL|SOIL|RE15-10-8374|||
Comment :
Method : /chem/ecdl1a.i/021510.b/ECD1-B-8082-021110.m
Meth Date : 16-Feb-2010 07:07 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
Als bottle: 45
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1620.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1pl

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

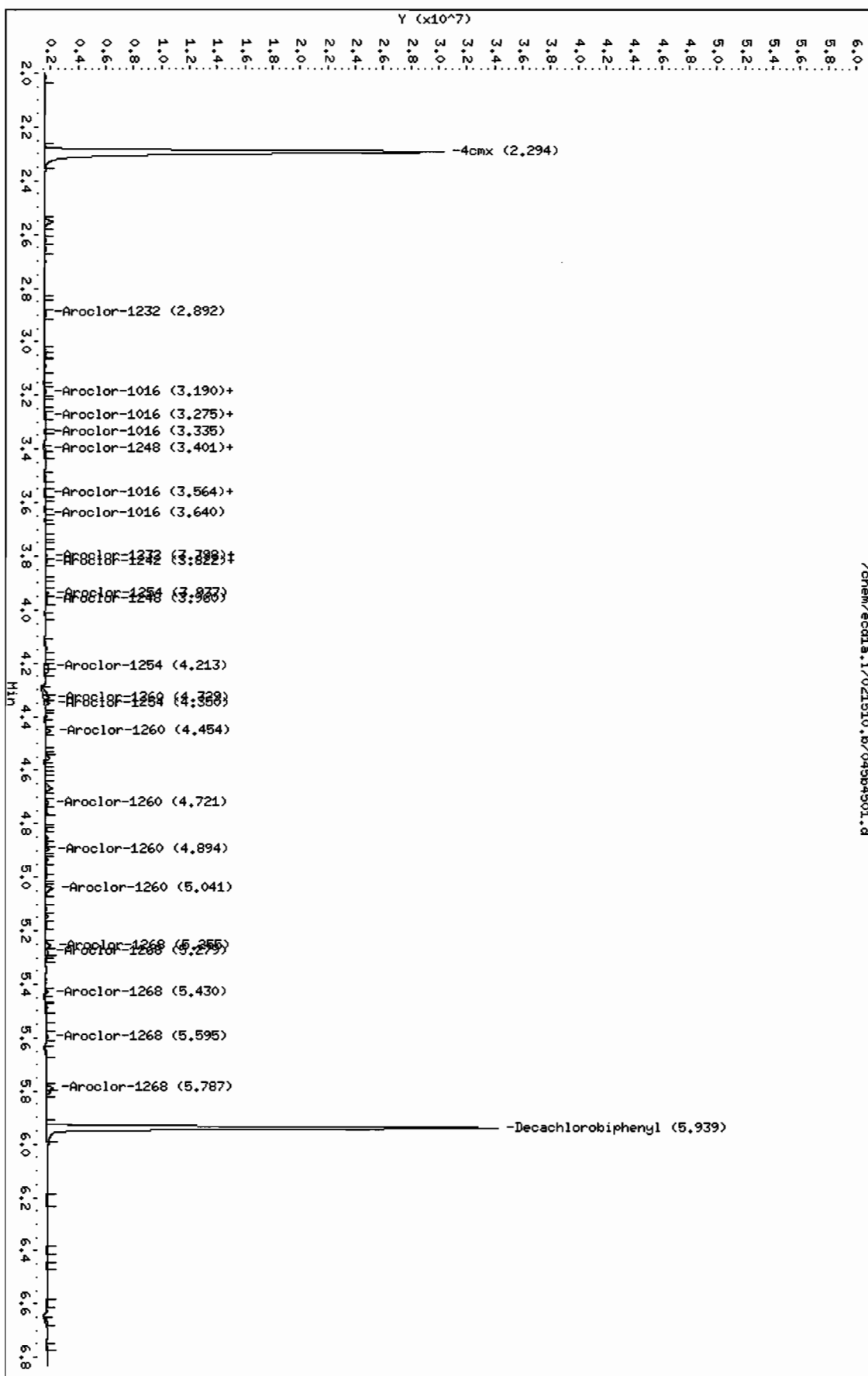
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	6.31250	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
<hr/>						
\$ 11 4cmx					CAS #: 877-09-8	
2.294	2.294	0.000	29299025	102.119	3.6 80.00- 120.00	100.00
<hr/>						
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.939	5.942	-0.003	24931136	115.908	4.1 80.00- 120.00	100.00
<hr/>						

Data File: /chem/ecdl1a.i/021510.b/045p4501.d
Date : 15-FEB-2010 15:05
Client ID: RE15-10-8374
Sample Info: 124643401511
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdl1a.i
Operator: YS1
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

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SDG Number: 10-1620
Lab Sample ID: 246434014

Date Collected: 02/02/2010 12:00
Date Received: 02/06/2010 09:15
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.01 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 19.7
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8375
Batch ID: 952059
Run Date: 02/15/2010 14:53
Prep Date: 02/12/2010 12:41
Data File: 044f4401.d
044b4401.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.15	ug/kg	1.38	4.15	1
11104-28-2	Aroclor-1221	U	4.15	ug/kg	1.38	4.15	1
11141-16-5	Aroclor-1232	U	4.15	ug/kg	1.38	4.15	1
53469-21-9	Aroclor-1242	U	4.15	ug/kg	1.38	4.15	1
12672-29-6	Aroclor-1248	U	4.15	ug/kg	1.38	4.15	1
11097-69-1	Aroclor-1254	U	4.15	ug/kg	1.38	4.15	1
11096-82-5	Aroclor-1260	U	4.15	ug/kg	1.38	4.15	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021510.b/044f4401.d
Lab Smp Id: 246434014 Client Smp ID: RE15-10-8375
Inj Date : 15-FEB-2010 14:53
Operator : YS1 Inst ID: ecdla.i
Smp Info : |246434014|1|
Misc Info : |ECD82P_1S|952059|SVA|LANL|SOIL|RE15-10-8375|||
Comment :
Method : /chem/ecdla.i/021510.b/ECD1-F-8082-021110.m
Meth Date : 16-Feb-2010 07:07 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d
Als bottle: 44
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1620.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	19.73610	% Moisture

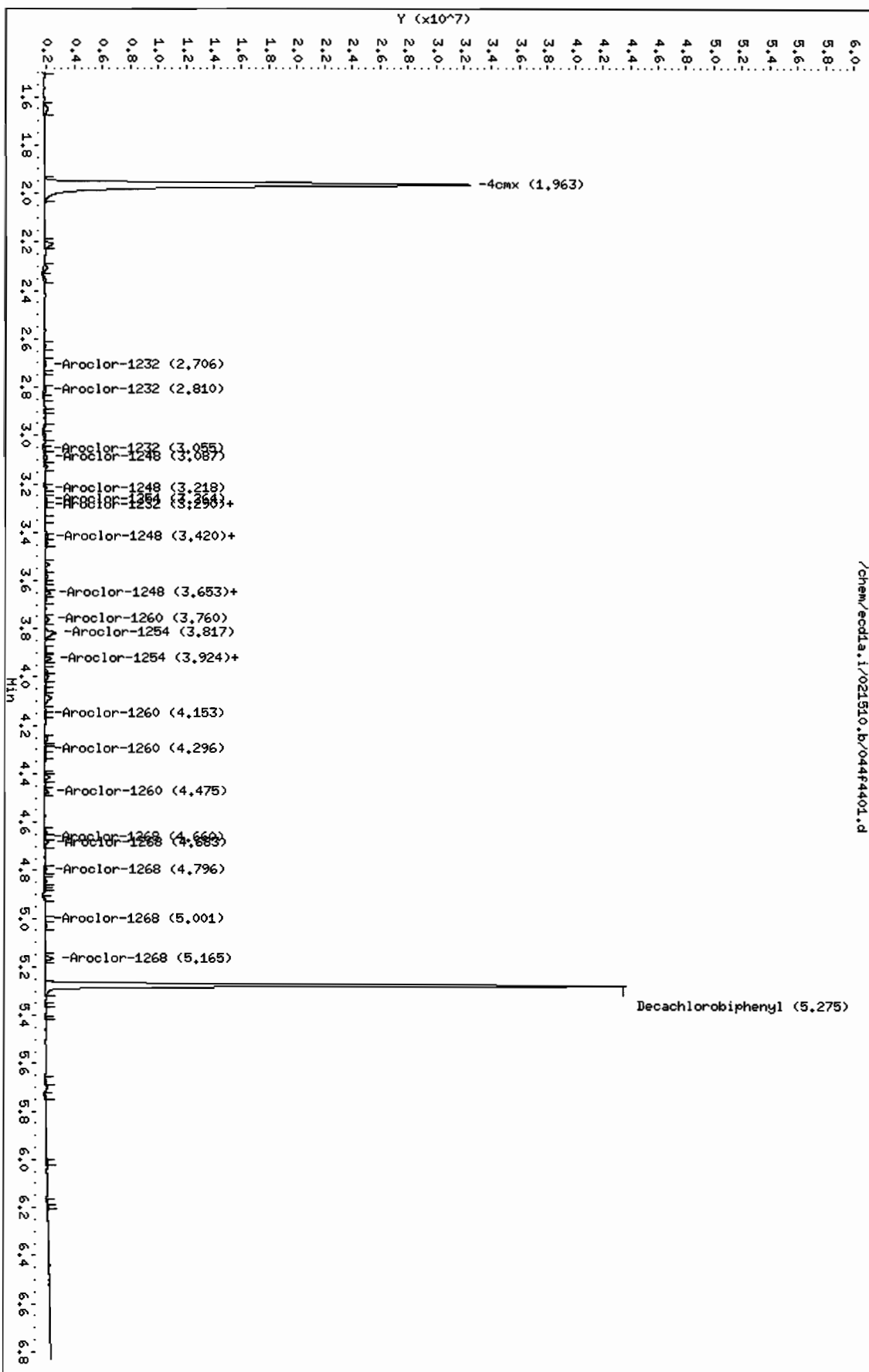
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	RESPONSE (ug/L)	(ug/Kg)		=====
\$ 11 4cmx					CAS #: 877-09-8	
1.963	1.963	0.000	39459041	90.2601	3.7 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.275	5.276	-0.001	32557063	97.6077	4.0 80.00- 120.00	100.00

Data File: /chem/ecdl1.i/021510.b/044f4401.d
Date : 15-FEB-2010 14:53
Client ID: RE15-10-8375
Sample Info: 124643401411
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eccl1.i
Operator: YS1
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021510.b/044b4401.d
 Lab Smp Id: 246434014 Client Smp ID: RE15-10-8375
 Inj Date : 15-FEB-2010 14:53
 Operator : YS1 Inst ID: ecdla.i
 Smp Info : |246434014|1|
 Misc Info : |ECD82P_1S|952059|SVA|LANL|SOIL|RE15-10-8375|||
 Comment :
 Method : /chem/ecdla.i/021510.b/ECD1-B-8082-021110.m
 Meth Date : 16-Feb-2010 07:07 yip00818 Quant Type: ESTD
 Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
 Als bottle: 44
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1620.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpclp1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	19.73610	% Moisture

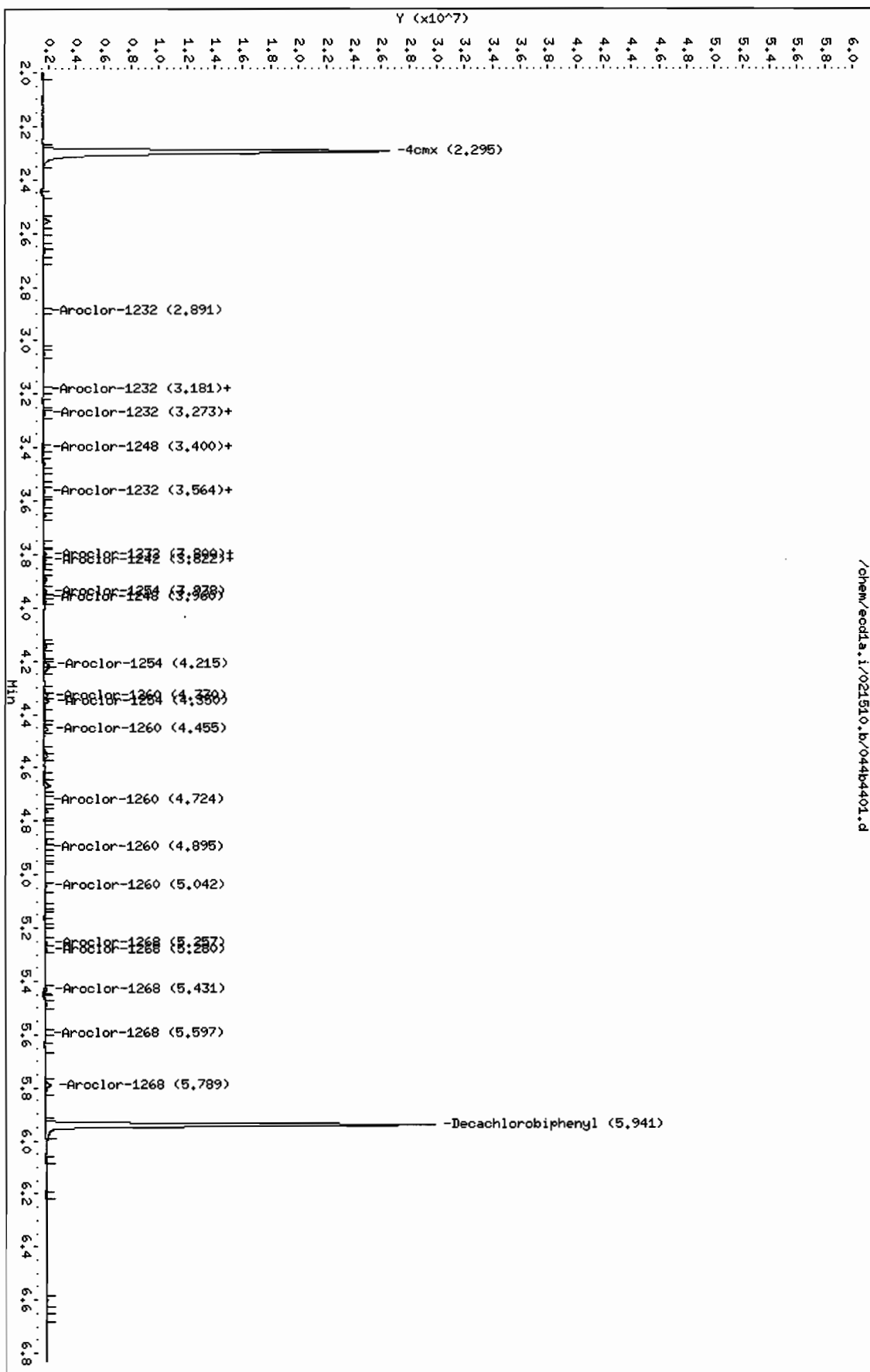
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
---	-----	-----	-----	-----	-----	-----	
\$ 11 4cmx				CAS #: 877-09-8			
2.295	2.294	0.001	25368986	88.4209	3.7 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.941	5.942	-0.001	21746411	101.102	4.2 80.00- 120.00	100.00	

Data File: /chem/ecdl1.i/021510.b/044b4401.d
Date: 15-FEB-2010 14:53
Client ID: RE15-10-8375
Sample Info: 124643401411
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdl1.i
Operator: YSI
Column diameter: 0.25



STANDARDS DATA

Report Date: 15-Feb-2010 12:08

Calibration History

Method : /chem/ecd1a.i/021510.b/ECD1-F-8082-021110.m
Start Cal Date: 14-DEC-2009 05:36
End Cal Date : 11-FEB-2010 08:54

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-JAN-2010 08:01	AR1262	/chem/ecd1a.i/012210.b/013f1301.d
22-JAN-2010 06:48	AR1232	/chem/ecd1a.i/012210.b/006f0601.d
28-JAN-2010 12:18	AR1268	/chem/ecd1a.i/012810a.b/018f1801.d
11-FEB-2010 08:12	AR1248	/chem/ecd1a.i/021110.b/011f1101.d
10-FEB-2010 22:01	AR1242	/chem/ecd1a.i/021010c.b/008f0801.d
09-FEB-2010 08:36	AR1254	/chem/ecd1a.i/020910.b/011f1101.d
10-FEB-2010 20:58	AR1660	/chem/ecd1a.i/021010c.b/002f0201.d

Cal Level: 2 , Cal Amount: 250.00000		
22-JAN-2010 08:12	AR1262	/chem/ecd1a.i/012210.b/014f1401.d
22-JAN-2010 06:58	AR1232	/chem/ecd1a.i/012210.b/007f0701.d
28-JAN-2010 12:29	AR1268	/chem/ecd1a.i/012810a.b/019f1901.d
11-FEB-2010 08:22	AR1248	/chem/ecd1a.i/021110.b/012f1201.d
10-FEB-2010 22:12	AR1242	/chem/ecd1a.i/021010c.b/009f0901.d
09-FEB-2010 08:47	AR1254	/chem/ecd1a.i/020910.b/012f1201.d
10-FEB-2010 21:09	AR1660	/chem/ecd1a.i/021010c.b/003f0301.d

Cal Level: 3 , Cal Amount: 500.00000		
22-JAN-2010 08:22	AR1262	/chem/ecd1a.i/012210.b/015f1501.d
22-JAN-2010 07:09	AR1232	/chem/ecd1a.i/012210.b/008f0801.d
28-JAN-2010 12:39	AR1268	/chem/ecd1a.i/012810a.b/020f2001.d
11-FEB-2010 08:33	AR1248	/chem/ecd1a.i/021110.b/013f1301.d
10-FEB-2010 22:22	AR1242	/chem/ecd1a.i/021010c.b/010f1001.d
09-FEB-2010 08:57	AR1254	/chem/ecd1a.i/020910.b/013f1301.d
10-FEB-2010 21:19	AR1660	/chem/ecd1a.i/021010c.b/004f0401.d

Cal Level: 4 , Cal Amount: 1000.00000		
14-DEC-2009 12:37	DDTANALOGSTD	/chem/ecd1a.i/121409.b/046f4601.d
11-FEB-2010 08:44	AR1248	/chem/ecd1a.i/021110.b/014f1401.d
10-FEB-2010 22:33	AR1242	/chem/ecd1a.i/021010c.b/011f1101.d
09-FEB-2010 09:08	AR1254	/chem/ecd1a.i/020910.b/014f1401.d
10-FEB-2010 21:30	AR1660	/chem/ecd1a.i/021010c.b/005f0501.d
28-JAN-2010 12:50	AR1268	/chem/ecd1a.i/012810a.b/021f2101.d
22-JAN-2010 08:36	AR1262	/chem/ecd1a.i/012210.b/016f1601.d
14-DEC-2009 05:47	AR1221	/chem/ecd1a.i/121409.b/007f0701.d
22-JAN-2010 07:19	AR1232	/chem/ecd1a.i/012210.b/009f0901.d

Cal Level: 5 , Cal Amount: 4000.00000		
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22-JAN-2010 08:47	AR1262	/chem/ecdla.i/012210.b/017f1701.d
22-JAN-2010 07:30	AR1232	/chem/ecdla.i/012210.b/010f1001.d
|28-JAN-2010 13:00	|AR1268	|/chem/ecdla.i/012810a.b/022f2201.d
|11-FEB-2010 08:54	|AR1248	|/chem/ecdla.i/021110.b/015f1501.d
|10-FEB-2010 22:43	|AR1242	|/chem/ecdla.i/021010c.b/012f1201.d
|09-FEB-2010 09:18	|AR1254	|/chem/ecdla.i/020910.b/015f1501.d
|10-FEB-2010 21:40	|AR1660	|/chem/ecdla.i/021010c.b/006f0601.d

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

| Ccal Level: 4 , Ccal Amount: 1000		
|15-FEB-2010 10:13	|AR1660	|/chem/ecdla.i/021510.b/018f1801.d
| Ccal Level: 4 , Ccal Amount: 1000		
|15-FEB-2010 08:37	|AR1268	|/chem/ecdla.i/021510.b/009f0901.d
| Ccal Level: 4 , Ccal Amount: 1000		
|15-FEB-2010 08:27	|AR1262	|/chem/ecdla.i/021510.b/008f0801.d
| Ccal Level: 4 , Ccal Amount: 1000		
|15-FEB-2010 08:16	|AR1221	|/chem/ecdla.i/021510.b/007f0701.d
| Ccal Level: 4 , Ccal Amount: 1000		
|15-FEB-2010 08:06	|AR1232	|/chem/ecdla.i/021510.b/006f0601.d
| Ccal Level: 4 , Ccal Amount: 1000		
|15-FEB-2010 07:55	|AR1248	|/chem/ecdla.i/021510.b/005f0501.d
| Ccal Level: 4 , Ccal Amount: 1000		
|15-FEB-2010 07:45	|AR1242	|/chem/ecdla.i/021510.b/004f0401.d
| Ccal Level: 4 , Ccal Amount: 1000		
|15-FEB-2010 07:34	|AR1254	|/chem/ecdla.i/021510.b/003f0301.d
| Ccal Level: 4 , Ccal Amount: 1000		
|15-FEB-2010 07:24	|AR1660	|/chem/ecdla.i/021510.b/002f0201.d

Report Date: 15-Feb-2010 12:08

Calibration History

Method : /chem/ecdl1a.i/021510.b/ECD1-B-8082-021110.m
Start Cal Date: 11-DEC-2009 10:17
End Cal Date : 11-FEB-2010 08:54

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-JAN-2010 08:01	AR1262	/chem/ecdl1a.i/012210.b/013b1301.d
22-JAN-2010 06:48	AR1232	/chem/ecdl1a.i/012210.b/006b0601.d
28-JAN-2010 12:18	AR1268	/chem/ecdl1a.i/012810a.b/018b1801.d
11-FEB-2010 08:12	AR1248	/chem/ecdl1a.i/021110.b/011b1101.d
10-FEB-2010 22:01	AR1242	/chem/ecdl1a.i/021010c.b/008b0801.d
09-FEB-2010 08:36	AR1254	/chem/ecdl1a.i/020910.b/011b1101.d
10-FEB-2010 20:58	AR1660	/chem/ecdl1a.i/021010c.b/002b0201.d

Cal Level: 2 , Cal Amount: 250.00000		
22-JAN-2010 08:12	AR1262	/chem/ecdl1a.i/012210.b/014b1401.d
22-JAN-2010 06:58	AR1232	/chem/ecdl1a.i/012210.b/007b0701.d
28-JAN-2010 12:29	AR1268	/chem/ecdl1a.i/012810a.b/019b1901.d
11-FEB-2010 08:22	AR1248	/chem/ecdl1a.i/021110.b/012b1201.d
10-FEB-2010 22:12	AR1242	/chem/ecdl1a.i/021010c.b/009b0901.d
09-FEB-2010 08:47	AR1254	/chem/ecdl1a.i/020910.b/012b1201.d
10-FEB-2010 21:09	AR1660	/chem/ecdl1a.i/021010c.b/003b0301.d

Cal Level: 3 , Cal Amount: 500.00000		
22-JAN-2010 08:22	AR1262	/chem/ecdl1a.i/012210.b/015b1501.d
22-JAN-2010 07:09	AR1232	/chem/ecdl1a.i/012210.b/008b0801.d
28-JAN-2010 12:39	AR1268	/chem/ecdl1a.i/012810a.b/020b2001.d
11-FEB-2010 08:33	AR1248	/chem/ecdl1a.i/021110.b/013b1301.d
10-FEB-2010 22:22	AR1242	/chem/ecdl1a.i/021010c.b/010b1001.d
09-FEB-2010 08:57	AR1254	/chem/ecdl1a.i/020910.b/013b1301.d
10-FEB-2010 21:19	AR1660	/chem/ecdl1a.i/021010c.b/004b0401.d

Cal Level: 4 , Cal Amount: 1000.00000		
14-DEC-2009 12:37	DDTANALOGSTD	/chem/ecdl1a.i/121409.b/046b4601.d
28-JAN-2010 12:50	AR1268	/chem/ecdl1a.i/012810a.b/021b2101.d
22-JAN-2010 08:36	AR1262	/chem/ecdl1a.i/012210.b/016b1601.d
14-DEC-2009 05:47	AR1221	/chem/ecdl1a.i/121409.b/007b0701.d
22-JAN-2010 07:19	AR1232	/chem/ecdl1a.i/012210.b/009b0901.d
11-FEB-2010 08:44	AR1248	/chem/ecdl1a.i/021110.b/014b1401.d
10-FEB-2010 22:33	AR1242	/chem/ecdl1a.i/021010c.b/011b1101.d
09-FEB-2010 09:08	AR1254	/chem/ecdl1a.i/020910.b/014b1401.d
10-FEB-2010 21:30	AR1660	/chem/ecdl1a.i/021010c.b/005b0501.d

Cal Level: 5 , Cal Amount: 4000.00000		
22-JAN-2010 08:47	AR1262	/chem/ecdl1a.i/012210.b/017b1701.d
22-JAN-2010 07:30	AR1232	/chem/ecdl1a.i/012210.b/010b1001.d
28-JAN-2010 13:00	AR1268	/chem/ecdl1a.i/012810a.b/022b2201.d
11-FEB-2010 08:54	AR1248	/chem/ecdl1a.i/021110.b/015b1501.d
10-FEB-2010 22:43	AR1242	/chem/ecdl1a.i/021010c.b/012b1201.d

09-FEB-2010 09:18	AR1254	/chem/ecd1a.i/020910.b/015b1501.d
10-FEB-2010 21:40	AR1660	/chem/ecd1a.i/021010c.b/006b0601.d

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
15-FEB-2010 08:27	AR1262	/chem/ecd1a.i/021510.b/008b0801.d
Ccal Level: 4 , Ccal Amount: 1000		
15-FEB-2010 10:13	AR1660	/chem/ecd1a.i/021510.b/018b1801.d
Ccal Level: 4 , Ccal Amount: 1000		
15-FEB-2010 08:37	AR1268	/chem/ecd1a.i/021510.b/009b0901.d
Ccal Level: 4 , Ccal Amount: 1000		
15-FEB-2010 08:16	AR1221	/chem/ecd1a.i/021510.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000		
15-FEB-2010 08:06	AR1232	/chem/ecd1a.i/021510.b/006b0601.d
Ccal Level: 4 , Ccal Amount: 1000		
15-FEB-2010 07:55	AR1248	/chem/ecd1a.i/021510.b/005b0501.d
Ccal Level: 4 , Ccal Amount: 1000		
15-FEB-2010 07:45	AR1242	/chem/ecd1a.i/021510.b/004b0401.d
Ccal Level: 4 , Ccal Amount: 1000		
15-FEB-2010 07:34	AR1254	/chem/ecd1a.i/021510.b/003b0301.d
Ccal Level: 4 , Ccal Amount: 1000		
15-FEB-2010 07:24	AR1660	/chem/ecd1a.i/021510.b/002b0201.d

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdla.i/021510.b/ECD1-F-8082-021110.m
Quant Method : ESTD Target Version : 3.50
Last Update : 15-Feb-2010 11:16 Number of Cpnds : 15
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

Initial:Start Threshold 12031.000000
Initial:End Threshold 6015.500000
Initial:Area Threshold 15489.000000
Initial:P-P Resolution 1.000000
Initial:Bunch Factor 2.000000
Initial:Negative Peaks OFF
Initial:Tension 0.500000

Compound	RT	RT Window	RF
1 Aroclor-1016	2.418	2.388-2.448	1.611e+04
	2.706	2.676-2.736	1.978e+04
	2.787	2.757-2.817	1.303e+04
	2.825	2.795-2.855	7.781e+03
	3.036	3.006-3.066	1.002e+04
63 4,4-DDD	3.953	3.933-3.973	3.938e+05
64 4,4-DDE	3.603	3.583-3.623	4.795e+05
62 4,4-DDT	4.118	4.098-4.138	3.238e+05
2 Aroclor-1221	2.075	2.045-2.105	4.301e+03
	2.167	2.137-2.197	2.440e+03
	2.193	2.163-2.223	1.027e+04
3 Aroclor-1232	2.419	2.389-2.449	6.849e+03
	2.707	2.677-2.737	8.426e+03
	2.788	2.758-2.818	5.627e+03
	3.035	3.005-3.065	3.983e+03
4 Aroclor-1242	3.289	3.259-3.319	3.858e+03
	2.417	2.387-2.447	1.423e+04
	2.706	2.676-2.736	1.725e+04
	2.824	2.794-2.854	6.715e+03
	3.035	3.005-3.065	8.866e+03
	3.289	3.259-3.319	8.594e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdla.i/021510.b/ECD1-F-8082-021110.m

Compound	RT	RT Window	RF
5 Aroclor-1248	3.087	3.057-3.117	9.450e+03
	3.238	3.208-3.268	8.270e+03
	3.289	3.259-3.319	1.593e+04
	3.420	3.390-3.450	1.308e+04
	3.653	3.623-3.683	8.823e+03
6 Aroclor-1254	3.264	3.234-3.294	1.578e+04
	3.419	3.389-3.449	2.135e+04
	3.653	3.623-3.683	2.726e+04
	3.816	3.786-3.846	2.062e+04
	3.925	3.895-3.955	1.959e+04
7 Aroclor-1260	3.762	3.732-3.792	1.903e+04
	3.925	3.895-3.955	2.835e+04
	4.156	4.126-4.186	1.704e+04
	4.298	4.268-4.328	1.789e+04
	4.477	4.447-4.507	3.885e+04
8 Aroclor-1262	3.762	3.732-3.792	1.500e+04
	3.924	3.894-3.954	2.038e+04
	4.154	4.124-4.184	2.520e+04
	4.297	4.267-4.327	2.299e+04
	4.477	4.447-4.507	4.717e+04
9 Aroclor-1268	4.661	4.631-4.691	5.248e+04
	4.683	4.653-4.713	4.812e+04
	4.796	4.766-4.826	3.703e+04
	5.000	4.970-5.030	1.629e+04
	5.165	5.135-5.195	1.083e+05
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	1.963	1.933-1.993	4.372e+05
\$ 12 Decachlorobiphenyl	5.276	5.246-5.306	3.336e+05

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdla.i/021510.b/ECD1-B-8082-021110.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 15-Feb-2010 11:24 Number of Cpnds : 15
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

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-----
Initial:Start Threshold      7222.000000
Initial:End Threshold        3611.000000
Initial:Area Threshold       6833.000000
Initial:P-P Resolution       0.000000
Initial:Bunch Factor         2.000000
Initial:Negative Peaks       OFF
Initial:Tension              0.500000
  
```

Compound	RT	RT Window	RF
1 Aroclor-1016	3.191	3.161-3.221	1.243e+04
	3.274	3.244-3.304	8.521e+03
	3.337	3.307-3.367	5.254e+03
	3.565	3.535-3.595	6.732e+03
	3.641	3.611-3.671	6.324e+03
62 4,4-DDT	4.670	4.650-4.690	2.436e+05
63 4,4-DDE	4.139	4.119-4.159	3.580e+05
64 4,4-DDD	4.483	4.463-4.503	2.893e+05
2 Aroclor-1221	2.490	2.460-2.520	3.640e+03
	2.584	2.554-2.614	2.329e+03
3 Aroclor-1232	2.625	2.595-2.655	8.119e+03
	2.893	2.863-2.923	5.892e+03
	3.190	3.160-3.220	6.222e+03
	3.274	3.244-3.304	4.345e+03
	3.564	3.534-3.594	3.111e+03
4 Aroclor-1242	3.798	3.768-3.828	3.193e+03
	3.191	3.161-3.221	1.075e+04
	3.273	3.243-3.303	7.486e+03
	3.564	3.534-3.594	5.934e+03
	3.798	3.768-3.828	5.957e+03
	3.827	3.797-3.857	6.667e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdla.i/021510.b/ECD1-B-8082-021110.m

Compound	RT	RT Window	RF
5 Aroclor-1248	3.399	3.369-3.429	7.671e+03
	3.564	3.534-3.594	9.454e+03
	3.798	3.768-3.828	1.075e+04
	3.825	3.795-3.855	1.201e+04
	3.962	3.932-3.992	1.157e+04
6 Aroclor-1254	3.399	3.369-3.429	6.631e+03
	3.821	3.791-3.851	1.170e+04
	3.938	3.908-3.968	1.289e+04
	4.214	4.184-4.244	1.768e+04
	4.351	4.321-4.381	1.318e+04
7 Aroclor-1260	4.331	4.301-4.361	1.259e+04
	4.456	4.426-4.486	1.507e+04
	4.721	4.691-4.751	1.162e+04
	4.896	4.866-4.926	1.203e+04
	5.043	5.013-5.073	2.582e+04
8 Aroclor-1262	4.455	4.425-4.485	1.356e+04
	4.721	4.691-4.751	1.889e+04
	4.895	4.865-4.925	1.747e+04
	5.042	5.012-5.072	3.453e+04
	5.255	5.225-5.285	2.487e+04
9 Aroclor-1268	5.253	5.223-5.283	3.626e+04
	5.281	5.251-5.311	3.358e+04
	5.431	5.401-5.461	2.598e+04
	5.596	5.566-5.626	1.135e+04
	5.788	5.758-5.818	6.708e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.294	2.264-2.324	2.869e+05
\$ 12 Decachlorobiphenyl	5.942	5.912-5.972	2.151e+05

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2009 05:36
 End Cal Date : 11-FEB-2010 08:54
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdla.i/021510.b/ECD1-F-8082-021110.m
 Cal Date : 15-Feb-2010 11:16 yip00818
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecdla.i/012210.b/013f1301.d
 Level 2: /chem/ecdla.i/012210.b/014f1401.d
 Level 3: /chem/ecdla.i/012210.b/015f1501.d
 Level 4: /chem/ecdla.i/121409.b/046f4601.d
 Level 5: /chem/ecdla.i/012210.b/017f1701.d

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	1000.000 Level 4	4000.000 Level 5	RRF	% RSD
1 Aroclor-1016(1)	19326	17292	16249	14619	13058	16109	14.981
(2)	22153	20229	20057	18657	17817	19783	8.392
(3)	15191	13813	12984	11880	11259	13025	11.981
(4)	8766	8210	7786	7162	6984	7781	9.470
(5)	11843	10436	9856	9117	8861	10022	11.892
63 4,4-DDD	++++	++++	++++	393799	++++	393799	0.000
64 4,4-DDE	++++	++++	++++	479509	++++	479509	0.000
62 4,4-DDT	++++	++++	++++	323817	++++	323817	0.000
2 Aroclor-1221(1)	++++	++++	++++	4301	++++	4301	0.000
(2)	++++	++++	++++	2440	++++	2440	0.000
(3)	++++	++++	++++	10272	++++	10272	0.000
3 Aroclor-1232(1)	8031	7459	6765	6313	5679	6849	13.524
(2)	9246	8871	8229	8095	7686	8426	7.427
(3)	6376	6076	5599	5256	4827	5627	11.031
(4)	4642	4328	3905	3655	3384	3983	12.710
(5)	4445	4061	3757	3587	3443	3858	10.378
4 Aroclor-1242(1)	17196	15480	14031	13205	11219	14226	15.919
(2)	19366	18107	17235	16522	15038	17254	9.451
(3)	7556	7133	6646	6336	5902	6715	9.682
(4)	10515	9349	8647	8192	7629	8866	12.591
(5)	9978	8943	8379	8018	7652	8594	10.575
5 Aroclor-1248(1)	10726	9846	9290	8975	8413	9450	9.334
(2)	9327	8548	8186	7843	7446	8270	8.680
(3)	17521	16821	15652	15280	14383	15931	7.826
(4)	14862	13498	12885	12502	11648	13079	9.187
(5)	10025	9201	8833	8291	7765	8823	9.799

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2009 05:36
 End Cal Date : 11-FEB-2010 08:54
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1a.i/021510.b/ECD1-F-8082-021110.m
 Cal Date : 15-Feb-2010 11:16 yip00818
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	1000.000 Level 4	4000.000 Level 5	RRF	% RSD
6 Aroclor-1254(1)	18218	16468	15766	15064	13404	15784	11.233
(2)	24302	22248	21155	20648	18377	21346	10.182
(3)	29883	28006	27625	26757	24011	27256	7.865
(4)	22385	20901	20953	20353	18513	20621	6.778
(5)	21764	19914	20167	19029	17098	19594	8.725
7 Aroclor-1260(1)	21642	19935	19107	17723	16744	19030	10.032
(2)	32138	29342	28391	26620	25276	28353	9.293
(3)	19407	17671	16915	15834	15397	17045	9.355
(4)	20180	18339	17702	16653	16586	17892	8.248
(5)	42057	39974	39147	37071	36004	38851	6.158
8 Aroclor-1262(1)	16796	15375	14585	14470	13775	15000	7.687
(2)	22563	20964	19865	19587	18936	20383	6.975
(3)	27641	25661	24522	24605	23554	25197	6.179
(4)	25041	23378	22465	22352	21708	22989	5.624
(5)	49563	47861	46825	46728	44852	47166	3.655
9 Aroclor-1268(1)	55111	53385	52967	52495	48466	52485	4.676
(2)	51014	48609	47960	48222	44786	48118	4.620
(3)	39244	37391	36973	36968	34562	37028	4.505
(4)	17802	16531	16072	16029	15038	16294	6.158
(5)	113064	109648	108755	109096	100824	108277	4.162
M 10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 11 4cmx	463524	446573	443497	419634	412623	437170	4.761
\$ 12 Decachlorobiphenyl	376792	343805	329903	311587	305664	333550	8.544

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 11-DEC-2009 10:17
 End Cal Date : 11-FEB-2010 08:54
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdla.i/021510.b/ECD1-B-8082-021110.m
 Cal Date : 15-Feb-2010 11:24 yip00818
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecdla.i/012210.b/013b1301.d
 Level 2: /chem/ecdla.i/012210.b/014b1401.d
 Level 3: /chem/ecdla.i/012210.b/015b1501.d
 Level 4: /chem/ecdla.i/121409.b/046b4601.d
 Level 5: /chem/ecdla.i/012210.b/017b1701.d

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
1 Aroclor-1016(1)	14591	12913	12188	11398	11060	12430	11.307
(2)	10470	9150	8372	7586	7028	8521	15.876
(3)	6450	5571	5116	4655	4476	5254	15.089
(4)	8237	7137	6558	5942	5787	6732	14.811
(5)	7728	6741	6161	5527	5464	6324	14.885
62 4,4-DDT	++++	++++	++++	243613	++++	243613	0.000
63 4,4-DDE	++++	++++	++++	357996	++++	357996	0.000
64 4,4-DDD	++++	++++	++++	289343	++++	289343	0.000
2 Aroclor-1221(1)	++++	++++	++++	3640	++++	3640	0.000
(2)	++++	++++	++++	2329	++++	2329	0.000
(3)	++++	++++	++++	8119	++++	8119	0.000
3 Aroclor-1232(1)	7405	6518	5773	5260	4504	5892	19.017
(2)	7294	6687	6058	5769	5299	6222	12.576
(3)	5336	4800	4249	3912	3427	4345	17.180
(4)	3854	3418	3039	2783	2462	3111	17.466
(5)	3940	3492	3102	2870	2562	3193	16.853
4 Aroclor-1242(1)	12868	11152	10610	10007	9095	10746	13.125
(2)	9289	8079	7275	6770	6015	7486	16.798
(3)	7189	6322	5719	5508	4930	5934	14.498
(4)	7095	6343	5815	5502	5032	5957	13.341
(5)	7801	7111	6544	6217	5664	6667	12.341
5 Aroclor-1248(1)	9444	8118	7508	7032	6252	7671	15.686
(2)	11407	9946	9274	8769	7875	9454	14.042
(3)	12626	11184	10575	10134	9235	10751	11.776
(4)	13986	12612	11847	11369	10240	12011	11.653
(5)	13621	12052	11294	10873	9986	11565	11.846

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 11-DEC-2009 10:17
 End Cal Date : 11-FEB-2010 08:54
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1a.i/021510.b/ECD1-B-8082-021110.m
 Cal Date : 15-Feb-2010 11:24 yip00818
 Curve Type : Average

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
6 Aroclor-1254(1)	8119	7134	6511	6102	5288	6631	16.115
(2)	13835	12411	11575	10994	9701	11703	13.219
(3)	15198	13631	12780	12111	10729	12890	12.960
(4)	20285	18437	17626	16945	15125	17683	10.740
(5)	15441	13882	13241	12228	11123	13183	12.432
7 Aroclor-1260(1)	15081	13204	12414	11388	10875	12592	13.167
(2)	17861	15711	14887	13769	13107	15067	12.319
(3)	13915	12197	11404	10497	10076	11618	13.121
(4)	14295	12571	11824	10912	10548	12030	12.409
(5)	29523	26703	25717	24048	23128	25824	9.659
8 Aroclor-1262(1)	15849	14211	13033	12748	11945	13557	11.192
(2)	21776	19630	18382	17939	16725	18890	10.157
(3)	20222	18124	16968	16542	15497	17471	10.323
(4)	38743	35618	34053	33297	30946	34532	8.384
(5)	28740	25266	23755	23937	22633	24866	9.485
9 Aroclor-1268(1)	40076	37508	36193	35765	31736	36256	8.369
(2)	36699	34342	33454	33223	30195	33583	6.968
(3)	29294	26633	25688	25340	22957	25982	8.826
(4)	12990	11609	11161	10996	9978	11347	9.656
(5)	67306	67058	67598	69416	64002	67076	2.911
M 10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 11 4cmx	319320	296105	286786	270335	262011	286912	7.851
\$ 12 Decachlorobiphenyl	252618	222970	211940	195273	192671	215094	11.330

Report Date: 18-Feb-2010 11:50

Calibration History

Method : /chem/ecdl1a.i/021710.b/ECD1-F-8082-021110.m
Start Cal Date: 14-DEC-2009 05:36
End Cal Date : 11-FEB-2010 08:54

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-JAN-2010 08:01	AR1262	/chem/ecdl1a.i/012210.b/013f1301.d
22-JAN-2010 06:48	AR1232	/chem/ecdl1a.i/012210.b/006f0601.d
28-JAN-2010 12:18	AR1268	/chem/ecdl1a.i/012810a.b/018f1801.d
11-FEB-2010 08:12	AR1248	/chem/ecdl1a.i/021110.b/011f1101.d
10-FEB-2010 22:01	AR1242	/chem/ecdl1a.i/021010c.b/008f0801.d
09-FEB-2010 08:36	AR1254	/chem/ecdl1a.i/020910.b/011f1101.d
10-FEB-2010 20:58	AR1660	/chem/ecdl1a.i/021010c.b/002f0201.d

Cal Level: 2 , Cal Amount: 250.00000		
22-JAN-2010 08:12	AR1262	/chem/ecdl1a.i/012210.b/014f1401.d
22-JAN-2010 06:58	AR1232	/chem/ecdl1a.i/012210.b/007f0701.d
28-JAN-2010 12:29	AR1268	/chem/ecdl1a.i/012810a.b/019f1901.d
11-FEB-2010 08:22	AR1248	/chem/ecdl1a.i/021110.b/012f1201.d
10-FEB-2010 22:12	AR1242	/chem/ecdl1a.i/021010c.b/009f0901.d
09-FEB-2010 08:47	AR1254	/chem/ecdl1a.i/020910.b/012f1201.d
10-FEB-2010 21:09	AR1660	/chem/ecdl1a.i/021010c.b/003f0301.d

Cal Level: 3 , Cal Amount: 500.00000		
22-JAN-2010 08:22	AR1262	/chem/ecdl1a.i/012210.b/015f1501.d
22-JAN-2010 07:09	AR1232	/chem/ecdl1a.i/012210.b/008f0801.d
28-JAN-2010 12:39	AR1268	/chem/ecdl1a.i/012810a.b/020f2001.d
11-FEB-2010 08:33	AR1248	/chem/ecdl1a.i/021110.b/013f1301.d
10-FEB-2010 22:22	AR1242	/chem/ecdl1a.i/021010c.b/010f1001.d
09-FEB-2010 08:57	AR1254	/chem/ecdl1a.i/020910.b/013f1301.d
10-FEB-2010 21:19	AR1660	/chem/ecdl1a.i/021010c.b/004f0401.d

Cal Level: 4 , Cal Amount: 1000.00000		
14-DEC-2009 12:37	DDTANALOGSTD	/chem/ecdl1a.i/121409.b/046f4601.d
11-FEB-2010 08:44	AR1248	/chem/ecdl1a.i/021110.b/014f1401.d
10-FEB-2010 22:33	AR1242	/chem/ecdl1a.i/021010c.b/011f1101.d
09-FEB-2010 09:08	AR1254	/chem/ecdl1a.i/020910.b/014f1401.d
10-FEB-2010 21:30	AR1660	/chem/ecdl1a.i/021010c.b/005f0501.d
28-JAN-2010 12:50	AR1268	/chem/ecdl1a.i/012810a.b/021f2101.d
22-JAN-2010 08:36	AR1262	/chem/ecdl1a.i/012210.b/016f1601.d
14-DEC-2009 05:47	AR1221	/chem/ecdl1a.i/121409.b/007f0701.d
22-JAN-2010 07:19	AR1232	/chem/ecdl1a.i/012210.b/009f0901.d

Cal Level: 5 , Cal Amount: 4000.00000		
22-JAN-2010 08:47	AR1262	/chem/ecdl1a.i/012210.b/017f1701.d
22-JAN-2010 07:30	AR1232	/chem/ecdl1a.i/012210.b/010f1001.d
28-JAN-2010 13:00	AR1268	/chem/ecdl1a.i/012810a.b/022f2201.d
11-FEB-2010 08:54	AR1248	/chem/ecdl1a.i/021110.b/015f1501.d
10-FEB-2010 22:43	AR1242	/chem/ecdl1a.i/021010c.b/012f1201.d

09-FEB-2010 09:18	AR1254	/chem/ecdla.i/020910.b/015f1501.d
10-FEB-2010 21:40	AR1660	/chem/ecdla.i/021010c.b/006f0601.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 19:20	AR1660	/chem/ecdla.i/021710.b/064f6401.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 21:06	AR1660	/chem/ecdla.i/021710.b/074f7401.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 18:21	AR1660	/chem/ecdla.i/021710.b/059f5901.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 15:53	AR1660	/chem/ecdla.i/021710.b/047f4701.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 13:51	AR1660	/chem/ecdla.i/021710.b/037f3701.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 12:07	AR1660	/chem/ecdla.i/021710.b/029f2901.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 09:35	AR1660	/chem/ecdla.i/021710.b/017f1701.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 07:50	AR1221	/chem/ecdla.i/021710.b/008f0801.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 07:39	AR1232	/chem/ecdla.i/021710.b/007f0701.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 07:29	AR1268	/chem/ecdla.i/021710.b/006f0601.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 07:18	AR1248	/chem/ecdla.i/021710.b/005f0501.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 07:08	AR1242	/chem/ecdla.i/021710.b/004f0401.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 06:57	AR1254	/chem/ecdla.i/021710.b/003f0301.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 06:47	AR1660	/chem/ecdla.i/021710.b/002f0201.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 08:11	DDTANALOGSTD	/chem/ecdla.i/021710.b/010f1001.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 08:00	AR1262	/chem/ecdla.i/021710.b/009f0901.d

Report Date: 18-Feb-2010 11:50

Calibration History

Method : /chem/ecd1a.i/021710.b/ECD1-B-8082-021110.m
Start Cal Date: 11-DEC-2009 10:17
End Cal Date : 11-FEB-2010 08:54

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-JAN-2010 08:01	AR1262	/chem/ecd1a.i/012210.b/013b1301.d
22-JAN-2010 06:48	AR1232	/chem/ecd1a.i/012210.b/006b0601.d
28-JAN-2010 12:18	AR1268	/chem/ecd1a.i/012810a.b/018b1801.d
11-FEB-2010 08:12	AR1248	/chem/ecd1a.i/021110.b/011b1101.d
10-FEB-2010 22:01	AR1242	/chem/ecd1a.i/021010c.b/008b0801.d
09-FEB-2010 08:36	AR1254	/chem/ecd1a.i/020910.b/011b1101.d
10-FEB-2010 20:58	AR1660	/chem/ecd1a.i/021010c.b/002b0201.d

Cal Level: 2 , Cal Amount: 250.00000		
22-JAN-2010 08:12	AR1262	/chem/ecd1a.i/012210.b/014b1401.d
22-JAN-2010 06:58	AR1232	/chem/ecd1a.i/012210.b/007b0701.d
28-JAN-2010 12:29	AR1268	/chem/ecd1a.i/012810a.b/019b1901.d
11-FEB-2010 08:22	AR1248	/chem/ecd1a.i/021110.b/012b1201.d
10-FEB-2010 22:12	AR1242	/chem/ecd1a.i/021010c.b/009b0901.d
09-FEB-2010 08:47	AR1254	/chem/ecd1a.i/020910.b/012b1201.d
10-FEB-2010 21:09	AR1660	/chem/ecd1a.i/021010c.b/003b0301.d

Cal Level: 3 , Cal Amount: 500.00000		
22-JAN-2010 08:22	AR1262	/chem/ecd1a.i/012210.b/015b1501.d
22-JAN-2010 07:09	AR1232	/chem/ecd1a.i/012210.b/008b0801.d
28-JAN-2010 12:39	AR1268	/chem/ecd1a.i/012810a.b/020b2001.d
11-FEB-2010 08:33	AR1248	/chem/ecd1a.i/021110.b/013b1301.d
10-FEB-2010 22:22	AR1242	/chem/ecd1a.i/021010c.b/010b1001.d
09-FEB-2010 08:57	AR1254	/chem/ecd1a.i/020910.b/013b1301.d
10-FEB-2010 21:19	AR1660	/chem/ecd1a.i/021010c.b/004b0401.d

Cal Level: 4 , Cal Amount: 1000.00000		
14-DEC-2009 12:37	DDTANALOGSTD	/chem/ecd1a.i/121409.b/046b4601.d
28-JAN-2010 12:50	AR1268	/chem/ecd1a.i/012810a.b/021b2101.d
22-JAN-2010 08:36	AR1262	/chem/ecd1a.i/012210.b/016b1601.d
14-DEC-2009 05:47	AR1221	/chem/ecd1a.i/121409.b/007b0701.d
22-JAN-2010 07:19	AR1232	/chem/ecd1a.i/012210.b/009b0901.d
11-FEB-2010 08:44	AR1248	/chem/ecd1a.i/021110.b/014b1401.d
10-FEB-2010 22:33	AR1242	/chem/ecd1a.i/021010c.b/011b1101.d
09-FEB-2010 09:08	AR1254	/chem/ecd1a.i/020910.b/014b1401.d
10-FEB-2010 21:30	AR1660	/chem/ecd1a.i/021010c.b/005b0501.d

Cal Level: 5 , Cal Amount: 4000.00000		
22-JAN-2010 08:47	AR1262	/chem/ecd1a.i/012210.b/017b1701.d
22-JAN-2010 07:30	AR1232	/chem/ecd1a.i/012210.b/010b1001.d
28-JAN-2010 13:00	AR1268	/chem/ecd1a.i/012810a.b/022b2201.d
11-FEB-2010 08:54	AR1248	/chem/ecd1a.i/021110.b/015b1501.d
10-FEB-2010 22:43	AR1242	/chem/ecd1a.i/021010c.b/012b1201.d

09-FEB-2010 09:18	AR1254	/chem/ecdla.i/020910.b/015b1501.d
10-FEB-2010 21:40	AR1660	/chem/ecdla.i/021010c.b/006b0601.d

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 19:20	AR1660	/chem/ecdla.i/021710.b/064b6401.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 18:21	AR1660	/chem/ecdla.i/021710.b/059b5901.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 15:53	AR1660	/chem/ecdla.i/021710.b/047b4701.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 21:06	AR1660	/chem/ecdla.i/021710.b/074b7401.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 13:51	AR1660	/chem/ecdla.i/021710.b/037b3701.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 12:07	AR1660	/chem/ecdla.i/021710.b/029b2901.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 09:35	AR1660	/chem/ecdla.i/021710.b/017b1701.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 06:47	AR1660	/chem/ecdla.i/021710.b/002b0201.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 08:11	DDTANALOGSTD	/chem/ecdla.i/021710.b/010b1001.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 07:39	AR1232	/chem/ecdla.i/021710.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 07:29	AR1268	/chem/ecdla.i/021710.b/006b0601.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 07:18	AR1248	/chem/ecdla.i/021710.b/005b0501.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 07:08	AR1242	/chem/ecdla.i/021710.b/004b0401.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 06:57	AR1254	/chem/ecdla.i/021710.b/003b0301.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 08:00	AR1262	/chem/ecdla.i/021710.b/009b0901.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 07:50	AR1221	/chem/ecdla.i/021710.b/008b0801.d

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdla.i/021710.b/ECD1-F-8082-021110.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 18-Feb-2010 07:45 Number of Cpnds : 15
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

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Initial:Start Threshold      12031.000000
Initial:End Threshold        6015.500000
Initial:Area Threshold       15489.000000
Initial:P-P Resolution        1.000000
Initial:Bunch Factor          2.000000
Initial:Negative Peaks        OFF
Initial:Tension               0.500000
  
```

Compound	RT	RT Window	RF
1 Aroclor-1016	2.416	2.386-2.446	1.611e+04
	2.705	2.675-2.735	1.978e+04
	2.785	2.755-2.815	1.303e+04
	2.823	2.793-2.853	7.781e+03
	3.034	3.004-3.064	1.002e+04
63 4,4-DDD	3.941	3.921-3.961	3.938e+05
64 4,4-DDE	3.591	3.571-3.611	4.795e+05
62 4,4-DDT	4.105	4.085-4.125	3.238e+05
2 Aroclor-1221	2.075	2.045-2.105	4.301e+03
	2.168	2.138-2.198	2.440e+03
	2.194	2.164-2.224	1.027e+04
3 Aroclor-1232	2.417	2.387-2.447	6.849e+03
	2.705	2.675-2.735	8.426e+03
	2.786	2.756-2.816	5.627e+03
	3.035	3.005-3.065	3.983e+03
4 Aroclor-1242	3.289	3.259-3.319	3.858e+03
	2.418	2.388-2.448	1.423e+04
	2.706	2.676-2.736	1.725e+04
	2.824	2.794-2.854	6.715e+03
	3.035	3.005-3.065	8.866e+03
	3.288	3.258-3.318	8.594e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1a.i/021710.b/ECD1-F-8082-021110.m

Compound	RT	RT Window	RF
5 Aroclor-1248	3.087	3.057-3.116	9.450e+03
	3.238	3.208-3.268	8.270e+03
	3.289	3.259-3.319	1.593e+04
	3.421	3.391-3.451	1.308e+04
	3.654	3.624-3.684	8.823e+03
6 Aroclor-1254	3.264	3.234-3.294	1.578e+04
	3.419	3.389-3.449	2.135e+04
	3.653	3.623-3.683	2.726e+04
	3.816	3.786-3.846	2.062e+04
	3.925	3.895-3.955	1.959e+04
7 Aroclor-1260	3.760	3.730-3.790	1.903e+04
	3.923	3.893-3.953	2.835e+04
	4.153	4.123-4.183	1.704e+04
	4.296	4.266-4.326	1.789e+04
	4.476	4.446-4.506	3.885e+04
8 Aroclor-1262	3.762	3.732-3.792	1.500e+04
	3.924	3.894-3.954	2.038e+04
	4.154	4.124-4.184	2.520e+04
	4.297	4.267-4.327	2.299e+04
	4.477	4.447-4.507	4.717e+04
9 Aroclor-1268	4.661	4.631-4.691	5.248e+04
	4.684	4.654-4.714	4.812e+04
	4.797	4.767-4.827	3.703e+04
	5.000	4.970-5.030	1.629e+04
	5.166	5.136-5.196	1.083e+05
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	1.961	1.931-1.991	4.372e+05
\$ 12 Decachlorobiphenyl	5.275	5.245-5.305	3.336e+05

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd1a.i/021710.b/ECD1-B-8082-021110.m
Quant Method : ESTD Target Version : 3.50
Last Update : 18-Feb-2010 07:45 Number of Cpnds : 15
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

Initial:Start Threshold 7222.000000
Initial:End Threshold 3611.000000
Initial:Area Threshold 6833.000000
Initial:P-P Resolution 0.000000
Initial:Bunch Factor 2.000000
Initial:Negative Peaks OFF
Initial:Tension 0.500000

Compound	RT	RT Window	RF
1 Aroclor-1016	3.190	3.160-3.220	1.243e+04
	3.273	3.243-3.303	8.521e+03
	3.336	3.306-3.366	5.254e+03
	3.564	3.534-3.594	6.732e+03
	3.639	3.609-3.669	6.324e+03
62 4,4-DDT	4.670	4.650-4.690	2.436e+05
63 4,4-DDE	4.139	4.119-4.159	3.580e+05
64 4,4-DDD	4.483	4.463-4.503	2.893e+05
2 Aroclor-1221	2.490	2.460-2.520	3.640e+03
	2.585	2.555-2.615	2.329e+03
	2.625	2.595-2.655	8.119e+03
3 Aroclor-1232	2.892	2.862-2.922	5.892e+03
	3.190	3.160-3.220	6.222e+03
	3.274	3.244-3.304	4.345e+03
	3.565	3.535-3.595	3.111e+03
4 Aroclor-1242	3.799	3.769-3.829	3.193e+03
	3.190	3.160-3.220	1.075e+04
	3.273	3.243-3.303	7.486e+03
	3.563	3.533-3.593	5.934e+03
	3.798	3.768-3.828	5.957e+03
	3.826	3.796-3.856	6.667e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdla.i/021710.b/ECD1-B-8082-021110.m

Compound	RT	RT Window	RF
5 Aroclor-1248	3.399	3.369-3.429	7.671e+03
	3.565	3.535-3.595	9.454e+03
	3.798	3.768-3.828	1.075e+04
	3.826	3.796-3.856	1.201e+04
	3.963	3.933-3.993	1.157e+04
6 Aroclor-1254	3.399	3.369-3.429	6.631e+03
	3.821	3.791-3.851	1.170e+04
	3.938	3.908-3.968	1.289e+04
	4.214	4.184-4.244	1.768e+04
	4.351	4.321-4.381	1.318e+04
7 Aroclor-1260	4.330	4.300-4.360	1.259e+04
	4.455	4.425-4.485	1.507e+04
	4.721	4.691-4.751	1.162e+04
	4.895	4.865-4.925	1.203e+04
	5.041	5.011-5.071	2.582e+04
8 Aroclor-1262	4.456	4.426-4.486	1.356e+04
	4.722	4.692-4.752	1.889e+04
	4.896	4.866-4.926	1.747e+04
	5.043	5.013-5.073	3.453e+04
	5.256	5.226-5.286	2.487e+04
9 Aroclor-1268	5.254	5.224-5.284	3.626e+04
	5.282	5.252-5.312	3.358e+04
	5.431	5.401-5.461	2.598e+04
	5.596	5.566-5.626	1.135e+04
	5.790	5.760-5.820	6.708e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.294	2.264-2.324	2.869e+05
\$ 12 Decachlorobiphenyl	5.941	5.911-5.971	2.151e+05

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2009 05:36
 End Cal Date : 11-FEB-2010 08:54
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdla.i/021710.b/ECD1-F-8082-021110.m
 Cal Date : 18-Feb-2010 07:45 yip00818
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecdla.i/012210.b/013f1301.d
 Level 2: /chem/ecdla.i/012210.b/014f1401.d
 Level 3: /chem/ecdla.i/012210.b/015f1501.d
 Level 4: /chem/ecdla.i/121409.b/046f4601.d
 Level 5: /chem/ecdla.i/012210.b/017f1701.d

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
1 Aroclor-1016(1)	19326	17292	16249	14619	13058	16109	14.981
(2)	22153	20229	20057	18657	17817	19783	8.392
(3)	15191	13813	12984	11880	11259	13025	11.981
(4)	8766	8210	7786	7162	6984	7781	9.470
(5)	11843	10436	9856	9117	8861	10022	11.892
63 4,4-DDD	++++	++++	++++	393799	++++	393799	0.000
64 4,4-DDE	++++	++++	++++	479509	++++	479509	0.000
62 4,4-DDT	++++	++++	++++	323817	++++	323817	0.000
2 Aroclor-1221(1)	++++	++++	++++	4301	++++	4301	0.000
(2)	++++	++++	++++	2440	++++	2440	0.000
(3)	++++	++++	++++	10272	++++	10272	0.000
3 Aroclor-1232(1)	8031	7459	6765	6313	5679	6849	13.524
(2)	9246	8871	8229	8095	7686	8426	7.427
(3)	6376	6076	5599	5256	4827	5627	11.031
(4)	4642	4328	3905	3655	3384	3983	12.710
(5)	4445	4061	3757	3587	3443	3858	10.378
4 Aroclor-1242(1)	17196	15480	14031	13205	11219	14226	15.919
(2)	19366	18107	17235	16522	15038	17254	9.451
(3)	7556	7133	6646	6336	5902	6715	9.682
(4)	10515	9349	8647	8192	7629	8866	12.591
(5)	9978	8943	8379	8018	7652	8594	10.575
5 Aroclor-1248(1)	10726	9846	9290	8975	8413	9450	9.334
(2)	9327	8548	8186	7843	7446	8270	8.680
(3)	17521	16821	15652	15280	14383	15931	7.826
(4)	14862	13498	12885	12502	11648	13079	9.187
(5)	10025	9201	8833	8291	7765	8823	9.799

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2009 05:36
 End Cal Date : 11-FEB-2010 08:54
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1a.i/021710.b/ECD1-F-8082-021110.m
 Cal Date : 18-Feb-2010 07:45 yip00818
 Curve Type : Average

	100.000	250.000	500.000	1000.000	4000.000		
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD
6 Aroclor-1254(1)	18218	16468	15766	15064	13404	15784	11.233
(2)	24302	22248	21155	20648	18377	21346	10.182
(3)	29883	28006	27625	26757	24011	27256	7.865
(4)	22385	20901	20953	20353	18513	20621	6.778
(5)	21764	19914	20167	19029	17098	19594	8.725
7 Aroclor-1260(1)	21642	19935	19107	17723	16744	19030	10.032
(2)	32138	29342	28391	26620	25276	28353	9.293
(3)	19407	17671	16915	15834	15397	17045	9.355
(4)	20180	18339	17702	16653	16586	17892	8.248
(5)	42057	39974	39147	37071	36004	38851	6.158
8 Aroclor-1262(1)	16796	15375	14585	14470	13775	15000	7.687
(2)	22563	20964	19865	19587	18936	20383	6.975
(3)	27641	25661	24522	24605	23554	25197	6.179
(4)	25041	23378	22465	22352	21708	22989	5.624
(5)	49563	47861	46825	46728	44852	47166	3.655
9 Aroclor-1268(1)	55111	53385	52967	52495	48466	52485	4.676
(2)	51014	48609	47960	48222	44786	48118	4.620
(3)	39244	37391	36973	36968	34562	37028	4.505
(4)	17802	16531	16072	16029	15038	16294	6.158
(5)	113064	109648	108755	109096	100824	108277	4.162
M 10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 4cmx	463524	446573	443497	419634	412623	437170	4.761
12 Decachlorobiphenyl	376792	343805	329903	311587	305664	333550	8.544

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 11-DEC-2009 10:17
 End Cal Date : 11-FEB-2010 08:54
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdla.i/021710.b/ECD1-B-8082-021110.m
 Cal Date : 18-Feb-2010 07:45 yip00818
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecdla.i/012210.b/013b1301.d
 Level 2: /chem/ecdla.i/012210.b/014b1401.d
 Level 3: /chem/ecdla.i/012210.b/015b1501.d
 Level 4: /chem/ecdla.i/121409.b/046b4601.d
 Level 5: /chem/ecdla.i/012210.b/017b1701.d

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
1 Aroclor-1016(1)	14591	12913	12188	11398	11060	12430	11.307
(2)	10470	9150	8372	7586	7028	8521	15.876
(3)	6450	5571	5116	4655	4476	5254	15.089
(4)	8237	7137	6558	5942	5787	6732	14.811
(5)	7728	6741	6161	5527	5464	6324	14.885
62 4,4-DDT	++++	++++	++++	243613	++++	243613	0.000
63 4,4-DDE	++++	++++	++++	357996	++++	357996	0.000
64 4,4-DDD	++++	++++	++++	289343	++++	289343	0.000
2 Aroclor-1221(1)	++++	++++	++++	3640	++++	3640	0.000
(2)	++++	++++	++++	2329	++++	2329	0.000
(3)	++++	++++	++++	8119	++++	8119	0.000
3 Aroclor-1232(1)	7405	6518	5773	5260	4504	5892	19.017
(2)	7294	6687	6058	5769	5299	6222	12.576
(3)	5336	4800	4249	3912	3427	4345	17.180
(4)	3854	3418	3039	2783	2462	3111	17.466
(5)	3940	3492	3102	2870	2562	3193	16.853
4 Aroclor-1242(1)	12868	11152	10610	10007	9095	10746	13.125
(2)	9289	8079	7275	6770	6015	7486	16.798
(3)	7189	6322	5719	5508	4930	5934	14.498
(4)	7095	6343	5815	5502	5032	5957	13.341
(5)	7801	7111	6544	6217	5664	6667	12.341
5 Aroclor-1248(1)	9444	8118	7508	7032	6252	7671	15.686
(2)	11407	9946	9274	8769	7875	9454	14.042
(3)	12626	11184	10575	10134	9235	10751	11.776
(4)	13986	12612	11847	11369	10240	12011	11.653
(5)	13621	12052	11294	10873	9986	11565	11.846

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 11-DEC-2009 10:17
 End Cal Date : 11-FEB-2010 08:54
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1a.i/021710.b/ECD1-B-8082-021110.m
 Cal Date : 18-Feb-2010 07:45 yip00818
 Curve Type : Average

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
6 Aroclor-1254(1)	8119	7134	6511	6102	5288	6631	16.115
(2)	13835	12411	11575	10994	9701	11703	13.219
(3)	15198	13631	12780	12111	10729	12890	12.960
(4)	20285	18437	17626	16945	15125	17683	10.740
(5)	15441	13882	13241	12228	11123	13183	12.432
7 Aroclor-1260(1)	15081	13204	12414	11388	10875	12592	13.167
(2)	17861	15711	14887	13769	13107	15067	12.319
(3)	13915	12197	11404	10497	10076	11618	13.121
(4)	14295	12571	11824	10912	10548	12030	12.409
(5)	29523	26703	25717	24048	23128	25824	9.659
8 Aroclor-1262(1)	15849	14211	13033	12748	11945	13557	11.192
(2)	21776	19630	18382	17939	16725	18890	10.157
(3)	20222	18124	16968	16542	15497	17471	10.323
(4)	38743	35618	34053	33297	30946	34532	8.384
(5)	28740	25266	23755	23937	22633	24866	9.485
9 Aroclor-1268(1)	40076	37508	36193	35765	31736	36256	8.369
(2)	36699	34342	33454	33223	30195	33583	6.968
(3)	29294	26633	25688	25340	22957	25982	8.826
(4)	12990	11609	11161	10996	9978	11347	9.656
(5)	67306	67058	67598	69416	64002	67076	2.911
M 10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 11 4cmx	319320	296105	286786	270335	262011	286912	7.851
\$ 12 Decachlorobiphenyl	252618	222970	211940	195273	192671	215094	11.330

Report Date: 19-Feb-2010 13:17

Calibration History

Method : /chem/ecdla.i/021910.b/ECD1-F-8082-021110.m
Start Cal Date: 14-DEC-2009 05:36
End Cal Date : 11-FEB-2010 08:54

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-JAN-2010 08:01	AR1262	/chem/ecdla.i/012210.b/013f1301.d
22-JAN-2010 06:48	AR1232	/chem/ecdla.i/012210.b/006f0601.d
28-JAN-2010 12:18	AR1268	/chem/ecdla.i/012810a.b/018f1801.d
11-FEB-2010 08:12	AR1248	/chem/ecdla.i/021110.b/011f1101.d
10-FEB-2010 22:01	AR1242	/chem/ecdla.i/021010c.b/008f0801.d
09-FEB-2010 08:36	AR1254	/chem/ecdla.i/020910.b/011f1101.d
10-FEB-2010 20:58	AR1660	/chem/ecdla.i/021010c.b/002f0201.d

Cal Level: 2 , Cal Amount: 250.00000		
22-JAN-2010 08:12	AR1262	/chem/ecdla.i/012210.b/014f1401.d
22-JAN-2010 06:58	AR1232	/chem/ecdla.i/012210.b/007f0701.d
28-JAN-2010 12:29	AR1268	/chem/ecdla.i/012810a.b/019f1901.d
11-FEB-2010 08:22	AR1248	/chem/ecdla.i/021110.b/012f1201.d
10-FEB-2010 22:12	AR1242	/chem/ecdla.i/021010c.b/009f0901.d
09-FEB-2010 08:47	AR1254	/chem/ecdla.i/020910.b/012f1201.d
10-FEB-2010 21:09	AR1660	/chem/ecdla.i/021010c.b/003f0301.d

Cal Level: 3 , Cal Amount: 500.00000		
22-JAN-2010 08:22	AR1262	/chem/ecdla.i/012210.b/015f1501.d
22-JAN-2010 07:09	AR1232	/chem/ecdla.i/012210.b/008f0801.d
28-JAN-2010 12:39	AR1268	/chem/ecdla.i/012810a.b/020f2001.d
11-FEB-2010 08:33	AR1248	/chem/ecdla.i/021110.b/013f1301.d
10-FEB-2010 22:22	AR1242	/chem/ecdla.i/021010c.b/010f1001.d
09-FEB-2010 08:57	AR1254	/chem/ecdla.i/020910.b/013f1301.d
10-FEB-2010 21:19	AR1660	/chem/ecdla.i/021010c.b/004f0401.d

Cal Level: 4 , Cal Amount: 1000.00000		
14-DEC-2009 12:37	DDTANALOGSTD	/chem/ecdla.i/121409.b/046f4601.d
11-FEB-2010 08:44	AR1248	/chem/ecdla.i/021110.b/014f1401.d
10-FEB-2010 22:33	AR1242	/chem/ecdla.i/021010c.b/011f1101.d
09-FEB-2010 09:08	AR1254	/chem/ecdla.i/020910.b/014f1401.d
10-FEB-2010 21:30	AR1660	/chem/ecdla.i/021010c.b/005f0501.d
28-JAN-2010 12:50	AR1268	/chem/ecdla.i/012810a.b/021f2101.d
22-JAN-2010 08:36	AR1262	/chem/ecdla.i/012210.b/016f1601.d
14-DEC-2009 05:47	AR1221	/chem/ecdla.i/121409.b/007f0701.d
22-JAN-2010 07:19	AR1232	/chem/ecdla.i/012210.b/009f0901.d

Cal Level: 5 , Cal Amount: 4000.00000		
22-JAN-2010 08:47	AR1262	/chem/ecdla.i/012210.b/017f1701.d
22-JAN-2010 07:30	AR1232	/chem/ecdla.i/012210.b/010f1001.d
28-JAN-2010 13:00	AR1268	/chem/ecdla.i/012810a.b/022f2201.d
11-FEB-2010 08:54	AR1248	/chem/ecdla.i/021110.b/015f1501.d
10-FEB-2010 22:43	AR1242	/chem/ecdla.i/021010c.b/012f1201.d

|09-FEB-2010 09:18	|AR1254	|/chem/ecdla.i/020910.b/015f1501.d
|10-FEB-2010 21:40	|AR1660	|/chem/ecdla.i/021010c.b/006f0601.d

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

| Ccal Level: 4 , Ccal Amount: 1000
|19-FEB-2010 11:55 |AR1660 |/chem/ecdla.i/021910.b/024f2401.d
| Ccal Level: 4 , Ccal Amount: 1000
|19-FEB-2010 10:13 |AR1660 |/chem/ecdla.i/021910.b/016f1601.d
| Ccal Level: 4 , Ccal Amount: 1000
|19-FEB-2010 08:57 |AR1268 |/chem/ecdla.i/021910.b/009f0901.d
| Ccal Level: 4 , Ccal Amount: 1000
|19-FEB-2010 08:47 |AR1262 |/chem/ecdla.i/021910.b/008f0801.d
| Ccal Level: 4 , Ccal Amount: 1000
|19-FEB-2010 08:36 |AR1221 |/chem/ecdla.i/021910.b/007f0701.d
| Ccal Level: 4 , Ccal Amount: 1000
|19-FEB-2010 08:26 |AR1232 |/chem/ecdla.i/021910.b/006f0601.d
| Ccal Level: 4 , Ccal Amount: 1000
|19-FEB-2010 08:15 |AR1248 |/chem/ecdla.i/021910.b/005f0501.d
| Ccal Level: 4 , Ccal Amount: 1000
|19-FEB-2010 07:41 |AR1242 |/chem/ecdla.i/021910.b/004f0401.d
| Ccal Level: 4 , Ccal Amount: 1000
|19-FEB-2010 07:30 |AR1254 |/chem/ecdla.i/021910.b/003f0301.d
| Ccal Level: 4 , Ccal Amount: 1000
|19-FEB-2010 07:20 |AR1660 |/chem/ecdla.i/021910.b/002f0201.d

Report Date: 19-Feb-2010 13:17

Calibration History

Method : /chem/ecdla.i/021910.b/ECD1-B-8082-021110.m
Start Cal Date: 11-DEC-2009 10:17
End Cal Date : 11-FEB-2010 08:54

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-JAN-2010 08:01	AR1262	/chem/ecdla.i/012210.b/013b1301.d
22-JAN-2010 06:48	AR1232	/chem/ecdla.i/012210.b/006b0601.d
28-JAN-2010 12:18	AR1268	/chem/ecdla.i/012810a.b/018b1801.d
11-FEB-2010 08:12	AR1248	/chem/ecdla.i/021110.b/011b1101.d
10-FEB-2010 22:01	AR1242	/chem/ecdla.i/021010c.b/008b0801.d
09-FEB-2010 08:36	AR1254	/chem/ecdla.i/020910.b/011b1101.d
10-FEB-2010 20:58	AR1660	/chem/ecdla.i/021010c.b/002b0201.d

Cal Level: 2 , Cal Amount: 250.00000		
22-JAN-2010 08:12	AR1262	/chem/ecdla.i/012210.b/014b1401.d
22-JAN-2010 06:58	AR1232	/chem/ecdla.i/012210.b/007b0701.d
28-JAN-2010 12:29	AR1268	/chem/ecdla.i/012810a.b/019b1901.d
11-FEB-2010 08:22	AR1248	/chem/ecdla.i/021110.b/012b1201.d
10-FEB-2010 22:12	AR1242	/chem/ecdla.i/021010c.b/009b0901.d
09-FEB-2010 08:47	AR1254	/chem/ecdla.i/020910.b/012b1201.d
10-FEB-2010 21:09	AR1660	/chem/ecdla.i/021010c.b/003b0301.d

Cal Level: 3 , Cal Amount: 500.00000		
22-JAN-2010 08:22	AR1262	/chem/ecdla.i/012210.b/015b1501.d
22-JAN-2010 07:09	AR1232	/chem/ecdla.i/012210.b/008b0801.d
28-JAN-2010 12:39	AR1268	/chem/ecdla.i/012810a.b/020b2001.d
11-FEB-2010 08:33	AR1248	/chem/ecdla.i/021110.b/013b1301.d
10-FEB-2010 22:22	AR1242	/chem/ecdla.i/021010c.b/010b1001.d
09-FEB-2010 08:57	AR1254	/chem/ecdla.i/020910.b/013b1301.d
10-FEB-2010 21:19	AR1660	/chem/ecdla.i/021010c.b/004b0401.d

Cal Level: 4 , Cal Amount: 1000.00000		
14-DEC-2009 12:37	DDTANALOGSTD	/chem/ecdla.i/121409.b/046b4601.d
28-JAN-2010 12:50	AR1268	/chem/ecdla.i/012810a.b/021b2101.d
22-JAN-2010 08:36	AR1262	/chem/ecdla.i/012210.b/016b1601.d
14-DEC-2009 05:47	AR1221	/chem/ecdla.i/121409.b/007b0701.d
22-JAN-2010 07:19	AR1232	/chem/ecdla.i/012210.b/009b0901.d
11-FEB-2010 08:44	AR1248	/chem/ecdla.i/021110.b/014b1401.d
10-FEB-2010 22:33	AR1242	/chem/ecdla.i/021010c.b/011b1101.d
09-FEB-2010 09:08	AR1254	/chem/ecdla.i/020910.b/014b1401.d
10-FEB-2010 21:30	AR1660	/chem/ecdla.i/021010c.b/005b0501.d

Cal Level: 5 , Cal Amount: 4000.00000		
22-JAN-2010 08:47	AR1262	/chem/ecdla.i/012210.b/017b1701.d
22-JAN-2010 07:30	AR1232	/chem/ecdla.i/012210.b/010b1001.d
28-JAN-2010 13:00	AR1268	/chem/ecdla.i/012810a.b/022b2201.d
11-FEB-2010 08:54	AR1248	/chem/ecdla.i/021110.b/015b1501.d
10-FEB-2010 22:43	AR1242	/chem/ecdla.i/021010c.b/012b1201.d

|09-FEB-2010 09:18	|AR1254	|/chem/ecdl1a.i/020910.b/015b1501.d
|10-FEB-2010 21:40	|AR1660	|/chem/ecdl1a.i/021010c.b/006b0601.d

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

| Ccal Level: 4 , Ccal Amount: 1000
|19-FEB-2010 11:55 |AR1660 |/chem/ecdl1a.i/021910.b/024b2401.d
| Ccal Level: 4 , Ccal Amount: 1000
|19-FEB-2010 10:13 |AR1660 |/chem/ecdl1a.i/021910.b/016b1601.d
| Ccal Level: 4 , Ccal Amount: 1000
|19-FEB-2010 08:57 |AR1268 |/chem/ecdl1a.i/021910.b/009b0901.d
| Ccal Level: 4 , Ccal Amount: 1000
|19-FEB-2010 08:47 |AR1262 |/chem/ecdl1a.i/021910.b/008b0801.d
| Ccal Level: 4 , Ccal Amount: 1000
|19-FEB-2010 08:36 |AR1221 |/chem/ecdl1a.i/021910.b/007b0701.d
| Ccal Level: 4 , Ccal Amount: 1000
|19-FEB-2010 08:26 |AR1232 |/chem/ecdl1a.i/021910.b/006b0601.d
| Ccal Level: 4 , Ccal Amount: 1000
|19-FEB-2010 08:15 |AR1248 |/chem/ecdl1a.i/021910.b/005b0501.d
| Ccal Level: 4 , Ccal Amount: 1000
|19-FEB-2010 07:41 |AR1242 |/chem/ecdl1a.i/021910.b/004b0401.d
| Ccal Level: 4 , Ccal Amount: 1000
|19-FEB-2010 07:30 |AR1254 |/chem/ecdl1a.i/021910.b/003b0301.d
| Ccal Level: 4 , Ccal Amount: 1000
|19-FEB-2010 07:20 |AR1660 |/chem/ecdl1a.i/021910.b/002b0201.d

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdla.i/021910.b/ECD1-F-8082-021110.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 19-Feb-2010 12:24 Number of Cpnds : 15
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

 Initial:Start Threshold 12031.000000
 Initial:End Threshold 6015.500000
 Initial:Area Threshold 15489.000000
 Initial:P-P Resolution 1.000000
 Initial:Bunch Factor 2.000000
 Initial:Negative Peaks OFF
 Initial:Tension 0.500000

Compound	RT	RT Window	RF
1 Aroclor-1016	2.416	2.386-2.446	1.611e+04
	2.705	2.675-2.735	1.978e+04
	2.785	2.755-2.815	1.303e+04
	2.824	2.794-2.854	7.781e+03
	3.035	3.005-3.065	1.002e+04
63 4,4-DDD	3.941	3.921-3.961	3.938e+05
64 4,4-DDE	3.591	3.571-3.611	4.795e+05
62 4,4-DDT	4.105	4.085-4.125	3.238e+05
2 Aroclor-1221	2.073	2.043-2.103	4.301e+03
	2.166	2.136-2.196	2.440e+03
	2.193	2.163-2.223	1.027e+04
3 Aroclor-1232	2.417	2.387-2.447	6.849e+03
	2.706	2.676-2.736	8.426e+03
	2.786	2.756-2.816	5.627e+03
	3.034	3.004-3.064	3.983e+03
	3.289	3.259-3.319	3.858e+03
4 Aroclor-1242	2.416	2.386-2.446	1.423e+04
	2.704	2.674-2.734	1.725e+04
	2.823	2.793-2.853	6.715e+03
	3.033	3.003-3.063	8.866e+03
	3.287	3.257-3.317	8.594e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdla.i/021910.b/ECD1-F-8082-021110.m

Compound	RT	RT Window	RF
5 Aroclor-1248	3.090	3.060-3.120	9.450e+03
	3.242	3.212-3.272	8.270e+03
	3.293	3.263-3.323	1.593e+04
	3.425	3.395-3.455	1.308e+04
6 Aroclor-1254	3.658	3.628-3.688	8.823e+03
	3.262	3.232-3.292	1.578e+04
	3.417	3.387-3.447	2.135e+04
	3.651	3.621-3.681	2.726e+04
7 Aroclor-1260	3.815	3.785-3.845	2.062e+04
	3.923	3.893-3.953	1.959e+04
	3.761	3.731-3.791	1.903e+04
	3.924	3.894-3.954	2.835e+04
8 Aroclor-1262	4.155	4.125-4.185	1.704e+04
	4.297	4.267-4.327	1.789e+04
	4.476	4.446-4.506	3.885e+04
	3.759	3.729-3.789	1.500e+04
9 Aroclor-1268	3.923	3.893-3.953	2.038e+04
	4.153	4.123-4.183	2.520e+04
	4.295	4.265-4.325	2.299e+04
	4.475	4.445-4.505	4.717e+04
M 10 Aroclor-Total	4.660	4.630-4.690	5.248e+04
	4.682	4.652-4.712	4.812e+04
	4.795	4.765-4.825	3.703e+04
	4.998	4.968-5.028	1.629e+04
\$ 11 4cmx	5.164	5.134-5.194	1.083e+05
\$ 12 Decachlorobiphenyl	1.000	0.980-1.020	
	1.960	1.930-1.990	4.372e+05
	5.275	5.245-5.305	3.336e+05

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdla.i/021910.b/ECD1-B-8082-021110.m
Quant Method : ESTD Target Version : 3.50
Last Update : 19-Feb-2010 12:23 Number of Cpnds : 15
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

Initial:Start Threshold 7222.000000
Initial:End Threshold 3611.000000
Initial:Area Threshold 6833.000000
Initial:P-P Resolution 0.000000
Initial:Bunch Factor 2.000000
Initial:Negative Peaks OFF
Initial:Tension 0.500000

Compound	RT	RT Window	RF
1 Aroclor-1016	3.190	3.160-3.220	1.243e+04
	3.272	3.242-3.302	8.521e+03
	3.335	3.305-3.365	5.254e+03
	3.563	3.533-3.593	6.732e+03
	3.639	3.609-3.669	6.324e+03
62 4,4-DDT	4.670	4.650-4.690	2.436e+05
63 4,4-DDE	4.139	4.119-4.159	3.580e+05
64 4,4-DDD	4.483	4.463-4.503	2.893e+05
2 Aroclor-1221	2.488	2.458-2.518	3.640e+03
	2.583	2.553-2.613	2.329e+03
	2.623	2.593-2.653	8.119e+03
3 Aroclor-1232	2.890	2.860-2.920	5.892e+03
	3.189	3.159-3.219	6.222e+03
	3.272	3.242-3.302	4.345e+03
	3.563	3.533-3.593	3.111e+03
4 Aroclor-1242	3.797	3.767-3.827	3.193e+03
	3.189	3.159-3.219	1.075e+04
	3.272	3.242-3.302	7.486e+03
	3.563	3.533-3.593	5.934e+03
	3.796	3.766-3.826	5.957e+03
	3.824	3.794-3.854	6.667e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd1a.i/021910.b/ECD1-B-8082-021110.m

Compound	RT	RT Window	RF
5 Aroclor-1248	3.400	3.370-3.430	7.671e+03
	3.566	3.536-3.596	9.454e+03
	3.800	3.770-3.830	1.075e+04
	3.828	3.798-3.858	1.201e+04
	3.964	3.934-3.994	1.157e+04
6 Aroclor-1254	3.397	3.367-3.427	6.631e+03
	3.820	3.790-3.850	1.170e+04
	3.936	3.906-3.966	1.289e+04
	4.212	4.182-4.242	1.768e+04
	4.350	4.320-4.380	1.318e+04
7 Aroclor-1260	4.330	4.300-4.360	1.259e+04
	4.455	4.425-4.485	1.507e+04
	4.720	4.690-4.750	1.162e+04
	4.894	4.864-4.924	1.203e+04
	5.041	5.011-5.071	2.582e+04
8 Aroclor-1262	4.454	4.424-4.484	1.356e+04
	4.719	4.689-4.749	1.889e+04
	4.893	4.863-4.923	1.747e+04
	5.040	5.010-5.070	3.453e+04
	5.253	5.223-5.283	2.487e+04
9 Aroclor-1268	5.251	5.221-5.281	3.626e+04
	5.280	5.250-5.310	3.358e+04
	5.429	5.399-5.459	2.598e+04
	5.594	5.564-5.624	1.135e+04
	5.786	5.756-5.816	6.708e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.292	2.262-2.322	2.869e+05
\$ 12 Decachlorobiphenyl	5.940	5.910-5.970	2.151e+05

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2009 05:36
 End Cal Date : 11-FEB-2010 08:54
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl.a.i/021910.b/ECD1-F-8082-021110.m
 Cal Date : 19-Feb-2010 12:24 yip00818
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecdl.a.i/012210.b/013f1301.d
 Level 2: /chem/ecdl.a.i/012210.b/014f1401.d
 Level 3: /chem/ecdl.a.i/012210.b/015f1501.d
 Level 4: /chem/ecdl.a.i/121409.b/046f4601.d
 Level 5: /chem/ecdl.a.i/012210.b/017f1701.d

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
1 Aroclor-1016(1)	19326	17292	16249	14619	13058	16109	14.981
(2)	22153	20229	20057	18657	17817	19783	8.392
(3)	15191	13813	12984	11880	11259	13025	11.981
(4)	8766	8210	7786	7162	6984	7781	9.470
(5)	11843	10436	9856	9117	8861	10022	11.892
63 4,4-DDD	++++	++++	++++	393799	++++	393799	0.000
64 4,4-DDE	++++	++++	++++	479509	++++	479509	0.000
62 4,4-DDT	++++	++++	++++	323817	++++	323817	0.000
2 Aroclor-1221(1)	++++	++++	++++	4301	++++	4301	0.000
(2)	++++	++++	++++	2440	++++	2440	0.000
(3)	++++	++++	++++	10272	++++	10272	0.000
3 Aroclor-1232(1)	8031	7459	6765	6313	5679	6849	13.524
(2)	9246	8871	8229	8095	7686	8426	7.427
(3)	6376	6076	5599	5256	4827	5627	11.031
(4)	4642	4328	3905	3655	3384	3983	12.710
(5)	4445	4061	3757	3587	3443	3858	10.378
4 Aroclor-1242(1)	17196	15480	14031	13205	11219	14226	15.919
(2)	19366	18107	17235	16522	15038	17254	9.451
(3)	7556	7133	6646	6336	5902	6715	9.682
(4)	10515	9349	8647	8192	7629	8866	12.591
(5)	9978	8943	8379	8018	7652	8594	10.575
5 Aroclor-1248(1)	10726	9846	9290	8975	8413	9450	9.334
(2)	9327	8548	8186	7843	7446	8270	8.680
(3)	17521	16821	15652	15280	14383	15931	7.826
(4)	14862	13498	12885	12502	11648	13079	9.187
(5)	10025	9201	8833	8291	7765	8823	9.799

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2009 05:36
 End Cal Date : 11-FEB-2010 08:54
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1a.i/021910.b/ECD1-F-8082-021110.m
 Cal Date : 19-Feb-2010 12:24 yip00818
 Curve Type : Average

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
6 Aroclor-1254(1)	18218	16468	15766	15064	13404	15784	11.233
(2)	24302	22248	21155	20648	18377	21346	10.182
(3)	29883	28006	27625	26757	24011	27256	7.865
(4)	22385	20901	20953	20353	18513	20621	6.778
(5)	21764	19914	20167	19029	17098	19594	8.725
7 Aroclor-1260(1)	21642	19935	19107	17723	16744	19030	10.032
(2)	32138	29342	28391	26620	25276	28353	9.293
(3)	19407	17671	16915	15834	15397	17045	9.355
(4)	20180	18339	17702	16653	16586	17892	8.248
(5)	42057	39974	39147	37071	36004	38851	6.158
8 Aroclor-1262(1)	16796	15375	14585	14470	13775	15000	7.687
(2)	22563	20964	19865	19587	18936	20383	6.975
(3)	27641	25661	24522	24605	23554	25197	6.179
(4)	25041	23378	22465	22352	21708	22989	5.624
(5)	49563	47861	46825	46728	44852	47166	3.655
9 Aroclor-1268(1)	55111	53385	52967	52495	48466	52485	4.676
(2)	51014	48609	47960	48222	44786	48118	4.620
(3)	39244	37391	36973	36968	34562	37028	4.505
(4)	17802	16531	16072	16029	15038	16294	6.158
(5)	113064	109648	108755	109096	100824	108277	4.162
M 10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 11 4cmx	463524	446573	443497	419634	412623	437170	4.761
\$ 12 Decachlorobiphenyl	376792	343805	329903	311587	305664	333550	8.544

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 11-DEC-2009 10:17
End Cal Date : 11-FEB-2010 08:54
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/ecdla.i/021910.b/ECD1-B-8082-021110.m
Cal Date : 19-Feb-2010 12:23 yip00818
Curve Type : Average

Calibration File Names:

Level 1: /chem/ecdla.i/012210.b/013b1301.d
Level 2: /chem/ecdla.i/012210.b/014b1401.d
Level 3: /chem/ecdla.i/012210.b/015b1501.d
Level 4: /chem/ecdla.i/121409.b/046b4601.d
Level 5: /chem/ecdla.i/012210.b/017b1701.d

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
1 Aroclor-1016(1)	14591	12913	12188	11398	11060	12430	11.307
(2)	10470	9150	8372	7586	7028	8521	15.876
(3)	6450	5571	5116	4655	4476	5254	15.089
(4)	8237	7137	6558	5942	5787	6732	14.811
(5)	7728	6741	6161	5527	5464	6324	14.885
62 4,4-DBT	++++	++++	++++	243613	++++	243613	0.000
63 4,4-DDE	++++	++++	++++	357996	++++	357996	0.000
64 4,4-DDD	++++	++++	++++	289343	++++	289343	0.000
2 Aroclor-1221(1)	++++	++++	++++	3640	++++	3640	0.000
(2)	++++	++++	++++	2329	++++	2329	0.000
(3)	++++	++++	++++	8119	++++	8119	0.000
3 Aroclor-1232(1)	7405	6518	5773	5260	4504	5892	19.017
(2)	7294	6687	6058	5769	5299	6222	12.576
(3)	5336	4800	4249	3912	3427	4345	17.180
(4)	3854	3418	3039	2783	2462	3111	17.466
(5)	3940	3492	3102	2870	2562	3193	16.853
4 Aroclor-1242(1)	12868	11152	10610	10007	9095	10746	13.125
(2)	9289	8079	7275	6770	6015	7486	16.798
(3)	7189	6322	5719	5508	4930	5934	14.498
(4)	7095	6343	5815	5502	5032	5957	13.341
(5)	7801	7111	6544	6217	5664	6667	12.341
5 Aroclor-1248(1)	9444	8118	7508	7032	6252	7671	15.686
(2)	11407	9946	9274	8769	7875	9454	14.042
(3)	12626	11184	10575	10134	9235	10751	11.776
(4)	13986	12612	11847	11369	10240	12011	11.653
(5)	13621	12052	11294	10873	9986	11565	11.846

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 11-DEC-2009 10:17
 End Cal Date : 11-FEB-2010 08:54
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd1a.i/021910.b/ECD1-B-8082-021110.m
 Cal Date : 19-Feb-2010 12:23 yip00818
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	1000.000 Level 4	4000.000 Level 5	RRF	% RSD
6 Aroclor-1254(1)	8119	7134	6511	6102	5288	6631	16.115
(2)	13835	12411	11575	10994	9701	11703	13.219
(3)	15198	13631	12780	12111	10729	12890	12.960
(4)	20285	18437	17626	16945	15125	17683	10.740
(5)	15441	13882	13241	12228	11123	13183	12.432
7 Aroclor-1260(1)	15081	13204	12414	11388	10875	12592	13.167
(2)	17861	15711	14887	13769	13107	15067	12.319
(3)	13915	12197	11404	10497	10076	11618	13.121
(4)	14295	12571	11824	10912	10548	12030	12.409
(5)	29523	26703	25717	24048	23128	25824	9.659
8 Aroclor-1262(1)	15849	14211	13033	12748	11945	13557	11.192
(2)	21776	19630	18382	17939	16725	18890	10.157
(3)	20222	18124	16968	16542	15497	17471	10.323
(4)	38743	35618	34053	33297	30946	34532	8.384
(5)	28740	25266	23755	23937	22633	24866	9.485
9 Aroclor-1268(1)	40076	37508	36193	35765	31736	36256	8.369
(2)	36699	34342	33454	33223	30195	33583	6.968
(3)	29294	26633	25688	25340	22957	25982	8.826
(4)	12990	11609	11161	10996	9978	11347	9.656
(5)	67306	67058	67598	69416	64002	67076	2.911
M 10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 11 4cmx	319320	296105	286786	270335	262011	286912	7.851
\$ 12 Decachlorobiphenyl	252618	222970	211940	195273	192671	215094	11.330

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620
 Instrument ID: ECD1A Calibration Date: 02/15/10 Time: 0724
 Lab File ID: 002F0201 Init. Calib. Date(s): 02/10/10 02/10/10
 Heated Purge: (Y/N) N Init. Calib. Times: 2058 2140
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	16108.588	14254.983	0.01	-11.5	15.0
(2)	19782.624	18889.466	0.01	-4.5	15.0
(3)	13025.402	12010.987	0.01	-7.8	15.0
(4)	7781.493	7249.576	0.01	-6.8	15.0
(5)	10022.454	9240.695	0.01	-7.8	15.0
Aroclor-1260	19030.240	19403.863	0.01	2.0	15.0
(2)	28353.443	29087.072	0.01	2.6	15.0
(3)	17044.603	17385.738	0.01	2.0	15.0
(4)	17892.160	18225.774	0.01	1.9	15.0
(5)	38850.548	40847.517	0.01	5.1	15.0
=====	=====	=====	=====	=====	=====
4cmx	437170.47	423913.46	0.01	-3.0	15.0
Decachlorobiphenyl	333550.18	316212.28	0.01	-5.2	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620
 Instrument ID: ECD1A Calibration Date: 02/15/10 Time: 0724
 Lab File ID: 002B0201 Init. Calib. Date(s): 02/10/10 02/10/10
 Heated Purge: (Y/N) N Init. Calib. Times: 2058 2140
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12430.231	11557.450	0.01	-7.0	15.0
(2)	8521.037	7496.102	0.01	-12.0	15.0
(3)	5253.747	4633.745	0.01	-11.8	15.0
(4)	6732.031	5891.160	0.01	-12.5	15.0
(5)	6324.172	5562.578	0.01	-12.0	15.0
Aroclor-1260	12592.453	12208.634	0.01	-3.0	15.0
(2)	15067.065	14815.145	0.01	-1.7	15.0
(3)	11617.964	11242.441	0.01	-3.2	15.0
(4)	12030.051	11619.784	0.01	-3.4	15.0
(5)	25823.849	25889.489	0.01	0.2	15.0
4cmx	286911.58	269388.30	0.01	-6.1	15.0
Decachlorobiphenyl	215094.49	195062.53	0.01	-9.3	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620
 Instrument ID: ECD1A Calibration Date: 02/15/10 Time: 1013
 Lab File ID: 018F1801 Init. Calib. Date(s): 02/10/10 02/10/10
 Heated Purge: (Y/N) N Init. Calib. Times: 2058 2140
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	16108.588	14471.482	0.01	-10.2	15.0
(2)	19782.624	19026.016	0.01	-3.8	15.0
(3)	13025.402	11918.531	0.01	-8.5	15.0
(4)	7781.493	7198.152	0.01	-7.5	15.0
(5)	10022.454	9272.729	0.01	-7.5	15.0
Aroclor-1260	19030.240	19037.387	0.01	0.0	15.0
(2)	28353.443	28809.090	0.01	1.6	15.0
(3)	17044.603	17144.104	0.01	0.6	15.0
(4)	17892.160	17929.150	0.01	0.2	15.0
(5)	38850.548	40389.005	0.01	4.0	15.0
4cmx	437170.47	418383.86	0.01	-4.3	15.0
Decachlorobiphenyl	333550.18	304183.33	0.01	-8.8	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620
 Instrument ID: ECD1A Calibration Date: 02/15/10 Time: 1013
 Lab File ID: 018B1801 Init. Calib. Date(s): 02/10/10 02/10/10
 Heated Purge: (Y/N) N Init. Calib. Times: 2058 2140
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	12430.231	11108.136	0.01	-10.6	15.0
(2)	8521.037	7340.541	0.01	-13.8	15.0
(3)	5253.747	4543.147	0.01	-13.5	15.0
(4)	6732.031	5750.130	0.01	-14.6	15.0
(5)	6324.172	5465.221	0.01	-13.6	15.0
Aroclor-1260	12592.453	11763.747	0.01	-6.6	15.0
(2)	15067.065	14390.107	0.01	-4.5	15.0
(3)	11617.964	10834.914	0.01	-6.7	15.0
(4)	12030.051	11244.072	0.01	-6.5	15.0
(5)	25823.849	25140.711	0.01	-2.6	15.0
=====	=====	=====	=====	=====	=====
4cmx	286911.58	262668.01	0.01	-8.4	15.0
Decachlorobiphenyl	215094.49	189179.83	0.01	-12.0	15.0
=====	=====	=====	=====	=====	=====

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620
 Instrument ID: ECD1A Calibration Date: 02/15/10 Time: 1223
 Lab File ID: 030F3001 Init. Calib. Date(s): 02/10/10 02/10/10
 Heated Purge: (Y/N) N Init. Calib. Times: 2058 2140
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	16108.588	14624.818	0.01	-9.2	15.0
(2)	19782.624	18590.075	0.01	-6.0	15.0
(3)	13025.402	11993.722	0.01	-7.9	15.0
(4)	7781.493	7268.790	0.01	-6.6	15.0
(5)	10022.454	9310.429	0.01	-7.1	15.0
Aroclor-1260	19030.240	19304.879	0.01	1.4	15.0
(2)	28353.443	29029.847	0.01	2.4	15.0
(3)	17044.603	17263.792	0.01	1.3	15.0
(4)	17892.160	18113.875	0.01	1.2	15.0
(5)	38850.548	40525.198	0.01	4.3	15.0
=====	=====	=====	=====	=====	=====
4cmx	437170.47	422547.00	0.01	-3.3	15.0
Decachlorobiphenyl	333550.18	304496.40	0.01	-8.7	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620
 Instrument ID: ECD1A Calibration Date: 02/15/10 Time: 1223
 Lab File ID: 030B3001 Init. Calib. Date(s): 02/10/10 02/10/10
 Heated Purge: (Y/N) N Init. Calib. Times: 2058 2140
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12430.231	11261.760	0.01	-9.4	15.0
(2)	8521.037	7480.284	0.01	-12.2	15.0
(3)	5253.747	4641.141	0.01	-11.7	15.0
(4)	6732.031	5876.987	0.01	-12.7	15.0
(5)	6324.172	5666.390	0.01	-10.4	15.0
Aroclor-1260	12592.453	12035.728	0.01	-4.4	15.0
(2)	15067.065	14649.789	0.01	-2.8	15.0
(3)	11617.964	11067.113	0.01	-4.7	15.0
(4)	12030.051	11417.867	0.01	-5.1	15.0
(5)	25823.849	25515.258	0.01	-1.2	15.0
4cmx	286911.58	267071.23	0.01	-6.9	15.0
Decachlorobiphenyl	215094.49	190703.56	0.01	-11.3	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620
 Instrument ID: ECD1A Calibration Date: 02/15/10 Time: 1421
 Lab File ID: 041F4101 Init. Calib. Date(s): 02/10/10 02/10/10
 Heated Purge: (Y/N) N Init. Calib. Times: 2058 2140
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	16108.588	14865.774	0.01	-7.7	15.0
(2)	19782.624	19632.209	0.01	-0.8	15.0
(3)	13025.402	12211.367	0.01	-6.2	15.0
(4)	7781.493	7385.692	0.01	-5.1	15.0
(5)	10022.454	9477.481	0.01	-5.4	15.0
Aroclor-1260	19030.240	19694.334	0.01	3.5	15.0
(2)	28353.443	29698.146	0.01	4.7	15.0
(3)	17044.603	17721.037	0.01	4.0	15.0
(4)	17892.160	18578.842	0.01	3.8	15.0
(5)	38850.548	41681.036	0.01	7.3	15.0
4cmx	437170.47	432720.08	0.01	-1.0	15.0
Decachlorobiphenyl	333550.18	317361.51	0.01	-4.8	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620
 Instrument ID: ECD1A Calibration Date: 02/15/10 Time: 1421
 Lab File ID: 041B4101 Init. Calib. Date(s): 02/10/10 02/10/10
 Heated Purge: (Y/N) N Init. Calib. Times: 2058 2140
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12430.231	11722.637	0.01	-5.7	15.0
(2)	8521.037	7645.878	0.01	-10.3	15.0
(3)	5253.747	4728.793	0.01	-10.0	15.0
(4)	6732.031	5985.892	0.01	-11.1	15.0
(5)	6324.172	5662.947	0.01	-10.4	15.0
Aroclor-1260	12592.453	12433.672	0.01	-1.3	15.0
(2)	15067.065	15148.143	0.01	0.5	15.0
(3)	11617.964	11477.434	0.01	-1.2	15.0
(4)	12030.051	11936.909	0.01	-0.8	15.0
(5)	25823.849	26535.062	0.01	2.8	15.0
4cmx	286911.58	274048.77	0.01	-4.5	15.0
Decachlorobiphenyl	215094.49	199763.58	0.01	-7.1	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620
 Instrument ID: ECD1A Calibration Date: 02/17/10 Time: 0647
 Lab File ID: 002F0201 Init. Calib. Date(s): 02/10/10 02/10/10
 Heated Purge: (Y/N) N Init. Calib. Times: 2058 2140
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	16108.588	13761.794	0.01	-14.6	15.0
(2)	19782.624	18449.879	0.01	-6.7	15.0
(3)	13025.402	11587.574	0.01	-11.0	15.0
(4)	7781.493	7003.378	0.01	-10.0	15.0
(5)	10022.454	9050.992	0.01	-9.7	15.0
Aroclor-1260	19030.240	18784.363	0.01	-1.3	15.0
(2)	28353.443	28246.821	0.01	-0.4	15.0
(3)	17044.603	16894.049	0.01	-0.9	15.0
(4)	17892.160	17753.072	0.01	-0.8	15.0
(5)	38850.548	39870.635	0.01	2.6	15.0
4cmx	437170.47	413425.74	0.01	-5.4	15.0
Decachlorobiphenyl	333550.18	301001.70	0.01	-9.8	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620
 Instrument ID: ECD1A Calibration Date: 02/17/10 Time: 0647
 Lab File ID: 002B0201 Init. Calib. Date(s): 02/10/10 02/10/10
 Heated Purge: (Y/N) N Init. Calib. Times: 2058 2140
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	12430.231	11495.699	0.01	-7.5	15.0
(2)	8521.037	7454.792	0.01	-12.5	15.0
(3)	5253.747	4598.832	0.01	-12.5	15.0
(4)	6732.031	5859.539	0.01	-13.0	15.0
(5)	6324.172	5505.058	0.01	-13.0	15.0
Aroclor-1260	12592.453	12155.143	0.01	-3.5	15.0
(2)	15067.065	14805.039	0.01	-1.7	15.0
(3)	11617.964	11230.893	0.01	-3.3	15.0
(4)	12030.051	11619.539	0.01	-3.4	15.0
(5)	25823.849	25751.744	0.01	-0.3	15.0
=====	=====	=====	=====	=====	=====
4cmx	286911.58	268511.43	0.01	-6.4	15.0
Decachlorobiphenyl	215094.49	185857.97	0.01	-13.6	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620
 Instrument ID: ECD1A Calibration Date: 02/17/10 Time: 0935
 Lab File ID: 017F1701 Init. Calib. Date(s): 02/10/10 02/10/10
 Heated Purge: (Y/N) N Init. Calib. Times: 2058 2140
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	16108.588	14758.503	0.01	-8.4	15.0
(2)	19782.624	18527.881	0.01	-6.3	15.0
(3)	13025.402	11717.668	0.01	-10.0	15.0
(4)	7781.493	7138.772	0.01	-8.2	15.0
(5)	10022.454	9017.131	0.01	-10.0	15.0
Aroclor-1260	19030.240	18939.798	0.01	-0.5	15.0
(2)	28353.443	28451.108	0.01	0.3	15.0
(3)	17044.603	17053.994	0.01	0.0	15.0
(4)	17892.160	17823.429	0.01	-0.4	15.0
(5)	38850.548	40023.510	0.01	3.0	15.0
4cmx	437170.47	417175.67	0.01	-4.6	15.0
Decachlorobiphenyl	333550.18	307329.02	0.01	-7.9	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620
 Instrument ID: ECD1A Calibration Date: 02/17/10 Time: 0935
 Lab File ID: 017B1701 Init. Calib. Date(s): 02/10/10 02/10/10
 Heated Purge: (Y/N) N Init. Calib. Times: 2058 2140
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12430.231	11562.765	0.01	-7.0	15.0
(2)	8521.037	7486.822	0.01	-12.1	15.0
(3)	5253.747	4611.500	0.01	-12.2	15.0
(4)	6732.031	6093.358	0.01	-9.5	15.0
(5)	6324.172	5605.012	0.01	-11.4	15.0
Aroclor-1260	12592.453	12216.902	0.01	-3.0	15.0
(2)	15067.065	14927.310	0.01	-0.9	15.0
(3)	11617.964	11331.366	0.01	-2.5	15.0
(4)	12030.051	11745.324	0.01	-2.4	15.0
(5)	25823.849	26160.964	0.01	1.3	15.0
4cmx	286911.58	268295.83	0.01	-6.5	15.0
Decachlorobiphenyl	215094.49	192934.37	0.01	-10.3	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620
 Instrument ID: ECD1A Calibration Date: 02/17/10 Time: 1207
 Lab File ID: 029F2901 Init. Calib. Date(s): 02/10/10 02/10/10
 Heated Purge: (Y/N) N Init. Calib. Times: 2058 2140
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	16108.588	14612.985	0.01	-9.3	15.0
(2)	19782.624	18416.099	0.01	-6.9	15.0
(3)	13025.402	11913.342	0.01	-8.5	15.0
(4)	7781.493	7159.625	0.01	-8.0	15.0
(5)	10022.454	9186.812	0.01	-8.3	15.0
Aroclor-1260	19030.240	19133.943	0.01	0.5	15.0
(2)	28353.443	28717.789	0.01	1.3	15.0
(3)	17044.603	17174.510	0.01	0.8	15.0
(4)	17892.160	18382.648	0.01	2.7	15.0
(5)	38850.548	40180.022	0.01	3.4	15.0
4cmx	437170.47	425256.74	0.01	-2.7	15.0
Decachlorobiphenyl	333550.18	312309.96	0.01	-6.4	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620
 Instrument ID: ECD1A Calibration Date: 02/17/10 Time: 1207
 Lab File ID: 029B2901 Init. Calib. Date(s): 02/10/10 02/10/10
 Heated Purge: (Y/N) N Init. Calib. Times: 2058 2140
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	12430.231	11734.228	0.01	-5.6	15.0
(2)	8521.037	7692.754	0.01	-9.7	15.0
(3)	5253.747	4763.637	0.01	-9.3	15.0
(4)	6732.031	6230.898	0.01	-7.4	15.0
(5)	6324.172	5722.803	0.01	-9.5	15.0
Aroclor-1260	12592.453	12435.482	0.01	-1.2	15.0
(2)	15067.065	15038.955	0.01	-0.2	15.0
(3)	11617.964	11448.560	0.01	-1.4	15.0
(4)	12030.051	11857.342	0.01	-1.4	15.0
(5)	25823.849	26359.667	0.01	2.1	15.0
=====	=====	=====	=====	=====	=====
4cmx	286911.58	277041.49	0.01	-3.4	15.0
Decachlorobiphenyl	215094.49	195151.30	0.01	-9.3	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620
 Instrument ID: ECD1A Calibration Date: 02/19/10 Time: 0720
 Lab File ID: 002F0201 Init. Calib. Date(s): 02/10/10 02/10/10
 Heated Purge: (Y/N) N Init. Calib. Times: 2058 2140
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	16108.588	14538.870	0.01	-9.7	15.0
(2)	19782.624	18589.964	0.01	-6.0	15.0
(3)	13025.402	11571.859	0.01	-11.2	15.0
(4)	7781.493	7000.295	0.01	-10.0	15.0
(5)	10022.454	8958.052	0.01	-10.6	15.0
Aroclor-1260	19030.240	18651.332	0.01	-2.0	15.0
(2)	28353.443	27971.780	0.01	-1.3	15.0
(3)	17044.603	16796.069	0.01	-1.4	15.0
(4)	17892.160	17965.081	0.01	0.4	15.0
(5)	38850.548	39428.405	0.01	1.5	15.0
=====	=====	=====	=====	=====	=====
4cmx	437170.47	412212.09	0.01	-5.7	15.0
Decachlorobiphenyl	333550.18	306890.28	0.01	-8.0	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620
 Instrument ID: ECD1A Calibration Date: 02/19/10 Time: 0720
 Lab File ID: 002B0201 Init. Calib. Date(s): 02/10/10 02/10/10
 Heated Purge: (Y/N) N Init. Calib. Times: 2058 2140
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	12430.231	11587.847	0.01	-6.8	15.0
(2)	8521.037	7422.580	0.01	-12.9	15.0
(3)	5253.747	4573.783	0.01	-12.9	15.0
(4)	6732.031	5854.504	0.01	-13.0	15.0
(5)	6324.172	5475.415	0.01	-13.4	15.0
Aroclor-1260	12592.453	12204.161	0.01	-3.1	15.0
(2)	15067.065	14970.781	0.01	-0.6	15.0
(3)	11617.964	11289.838	0.01	-2.8	15.0
(4)	12030.051	11666.937	0.01	-3.0	15.0
(5)	25823.849	25917.738	0.01	0.4	15.0
=====	=====	=====	=====	=====	=====
4cmx	286911.58	268763.86	0.01	-6.3	15.0
Decachlorobiphenyl	215094.49	197152.28	0.01	-8.3	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620
 Instrument ID: ECD1A Calibration Date: 02/19/10 Time: 1013
 Lab File ID: 016F1601 Init. Calib. Date(s): 02/10/10 02/10/10
 Heated Purge: (Y/N) N Init. Calib. Times: 2058 2140
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D	
=====	=====	=====	=====	=====	=====	
Aroclor-1016	16108.588	13130.775	0.01	-18.5	15.0	<-
(2)	19782.624	16837.662	0.01	-14.9	15.0	
(3)	13025.402	10728.808	0.01	-17.6	15.0	<-
(4)	7781.493	6438.258	0.01	-17.3	15.0	<-
(5)	10022.454	8442.508	0.01	-15.8	15.0	<-
Aroclor-1260	19030.240	17535.748	0.01	-7.8	15.0	
(2)	28353.443	26657.831	0.01	-6.0	15.0	
(3)	17044.603	16014.512	0.01	-6.0	15.0	
(4)	17892.160	17022.502	0.01	-4.9	15.0	
(5)	38850.548	38070.864	0.01	-2.0	15.0	
=====	=====	=====	=====	=====	=====	
4cmx	437170.47	381494.81	0.01	-12.7	15.0	
Decachlorobiphenyl	333550.18	301944.97	0.01	-9.5	15.0	

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620
 Instrument ID: ECD1A Calibration Date: 02/19/10 Time: 1013
 Lab File ID: 016B1601 Init. Calib. Date(s): 02/10/10 02/10/10
 Heated Purge: (Y/N) N Init. Calib. Times: 2058 2140
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	12430.231	11612.832	0.01	-6.6	15.0
(2)	8521.037	7595.688	0.01	-10.8	15.0
(3)	5253.747	4703.575	0.01	-10.5	15.0
(4)	6732.031	5975.230	0.01	-11.2	15.0
(5)	6324.172	5648.158	0.01	-10.7	15.0
Aroclor-1260	12592.453	12467.775	0.01	-1.0	15.0
(2)	15067.065	15314.425	0.01	1.6	15.0
(3)	11617.964	11528.968	0.01	-0.8	15.0
(4)	12030.051	11960.378	0.01	-0.6	15.0
(5)	25823.849	26676.760	0.01	3.3	15.0
=====	=====	=====	=====	=====	=====
4cmx	286911.58	275104.30	0.01	-4.1	15.0
Decachlorobiphenyl	215094.49	199170.91	0.01	-7.4	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620
 Instrument ID: ECD1A Calibration Date: 02/19/10 Time: 1155
 Lab File ID: 024F2401 Init. Calib. Date(s): 02/10/10 02/10/10
 Heated Purge: (Y/N) N Init. Calib. Times: 2058 2140
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D	
=====	=====	=====	=====	=====	=====	
Aroclor-1016	16108.588	13156.531	0.01	-18.3	15.0	<-
(2)	19782.624	17012.352	0.01	-14.0	15.0	
(3)	13025.402	10771.851	0.01	-17.3	15.0	<-
(4)	7781.493	6461.476	0.01	-17.0	15.0	<-
(5)	10022.454	8380.139	0.01	-16.4	15.0	<-
Aroclor-1260	19030.240	17814.647	0.01	-6.4	15.0	
(2)	28353.443	27075.765	0.01	-4.5	15.0	
(3)	17044.603	16270.926	0.01	-4.5	15.0	
(4)	17892.160	17432.247	0.01	-2.6	15.0	
(5)	38850.548	38523.144	0.01	-0.8	15.0	
=====	=====	=====	=====	=====	=====	
4cmx	437170.47	382529.80	0.01	-12.5	15.0	
Decachlorobiphenyl	333550.18	304077.88	0.01	-8.8	15.0	

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620
 Instrument ID: ECD1A Calibration Date: 02/19/10 Time: 1155
 Lab File ID: 024B2401 Init. Calib. Date(s): 02/10/10 02/10/10
 Heated Purge: (Y/N) N Init. Calib. Times: 2058 2140
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	12430.231	11920.699	0.01	-4.1	15.0
(2)	8521.037	7633.846	0.01	-10.4	15.0
(3)	5253.747	4694.248	0.01	-10.6	15.0
(4)	6732.031	6210.556	0.01	-7.7	15.0
(5)	6324.172	5726.426	0.01	-9.4	15.0
Aroclor-1260	12592.453	12508.798	0.01	-0.7	15.0
(2)	15067.065	15296.484	0.01	1.5	15.0
(3)	11617.964	11604.339	0.01	-0.1	15.0
(4)	12030.051	11969.240	0.01	-0.5	15.0
(5)	25823.849	26696.921	0.01	3.4	15.0
=====	=====	=====	=====	=====	=====
4cmx	286911.58	273169.05	0.01	-4.8	15.0
Decachlorobiphenyl	215094.49	201648.06	0.01	-6.2	15.0

FORM VII PEST

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021510.b/002f0201.d

Lab Smp Id: WAR100203-60 01

Client Smp ID: AR166001

Inj Date : 15-FEB-2010 07:24

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100203-60 01

Misc Info :

Comment :

Method : /chem/ecdla.i/021510.b/ECD1-F-8082-021110.m

Meth Date : 15-Feb-2010 11:16 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 2

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO	
<hr/>							
\$ 11 4cmx				CAS #: 877-09-8			
1.963	1.963	0.000	42391346 100.000	97.0	80.00- 120.00	100.00	
<hr/>							
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.276	5.276	0.000	31621228 100.000	94.8	80.00- 120.00	100.00	
<hr/>							
1 Aroclor-1016				CAS #: 12674-11-2			
2.418	2.418	0.000	14254983 1000.00	885	80.00- 120.00	100.00	
2.706	2.706	0.000	18889466 1000.00	955	111.47- 151.47	132.51	
2.787	2.787	0.000	12010987 1000.00	922	62.36- 102.36	84.26	
2.825	2.825	0.000	7249576 1000.00	932	29.74- 69.74	50.86	
3.036	3.036	0.000	9240695 1000.00	922	44.08- 84.08	64.82	
Average of Peak Amounts =				923			
<hr/>							
7 Aroclor-1260				CAS #: 11096-82-5			
3.762	3.762	0.000	19403863 1000.00	1020	80.00- 120.00	100.00	
3.925	3.925	0.000	29087072 1000.00	1020	131.33- 171.33	149.90	
4.156	4.156	0.000	17385738 1000.00	1020	70.05- 110.05	89.60	
4.298	4.298	0.000	18225774 1000.00	1020	74.18- 114.18	93.93	
4.477	4.477	0.000	40847517 1000.00	1050	192.16- 232.16	210.51	
Average of Peak Amounts =				1.03e+03			

Data File: /chem/ecda.i/021510.b/002f0201.d

Date: 15-FEB-2010 07:24

Client ID: AR166001

Sample Info: IMA100203-60 01

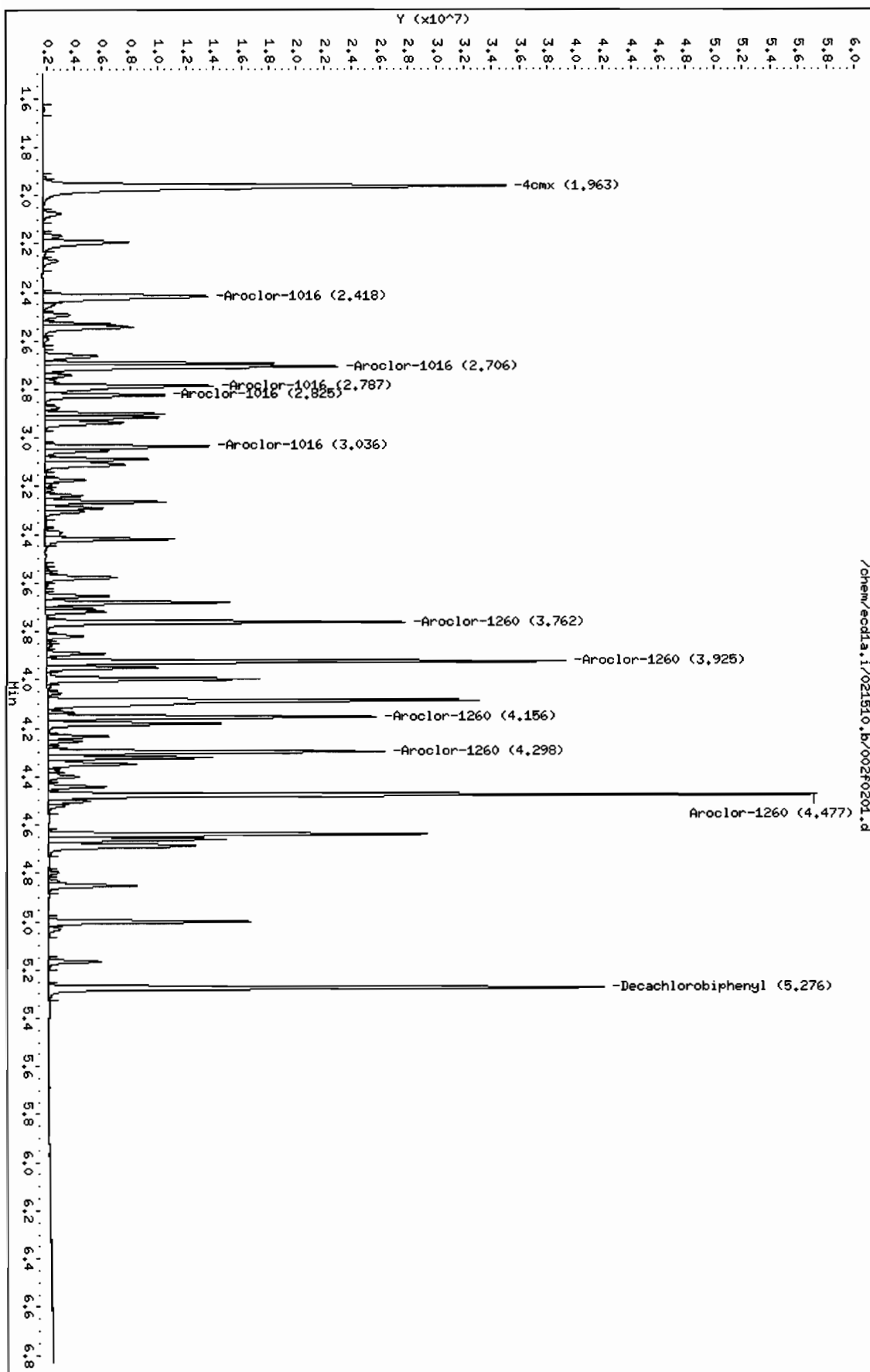
Page 1

Column phase: CLP1

Instrument: ecda.i

Operator: YS1

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021510.b/002b0201.d
Lab Smp Id: WAR100203-60 01 Client Smp ID: AR166001
Inj Date : 15-FEB-2010 07:24
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |WAR100203-60 01
Misc Info :
Comment :
Method : /chem/ecdl1a.i/021510.b/ECD1-B-8082-021110.m
Meth Date : 15-Feb-2010 11:24 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE		RATIO
<hr/>								
\$ 11 4cmx					CAS #: 877-09-8			
2.294	2.294	0.000	26938830	100.000	93.9	80.00-	120.00	100.00
<hr/>								
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.942	5.942	0.000	19506253	100.000	90.7	80.00-	120.00	100.00
<hr/>								
1 Aroclor-1016					CAS #: 12674-11-2			
3.191	3.191	0.000	11557450	1000.00	930	80.00-	120.00	100.00 (M)
3.274	3.274	0.000	7496102	1000.00	880	46.08-	86.08	64.86
3.337	3.337	0.000	4633745	1000.00	882	20.90-	60.90	40.09
3.565	3.565	0.000	5891160	1000.00	875	31.77-	71.77	50.97
3.641	3.641	0.000	5562578	1000.00	880	29.20-	69.20	48.13
Average of Peak Amounts =					889			
<hr/>								
7 Aroclor-1260					CAS #: 11096-82-5			
4.331	4.331	0.000	12208634	1000.00	970	80.00-	120.00	100.00
4.456	4.456	0.000	14815145	1000.00	983	102.33-	142.33	121.35
4.721	4.721	0.000	11242441	1000.00	968	72.10-	112.10	92.09
4.896	4.896	0.000	11619784	1000.00	966	75.58-	115.58	95.18
5.043	5.043	0.000	25889489	1000.00	1000	193.71-	233.71	212.06
Average of Peak Amounts =					978			

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/eod1a.i/021510.b/002b0201.d

Date: 15-FEB-2010 07:24

Client ID: AR166001

Sample Info: 1MAR100203-60 01

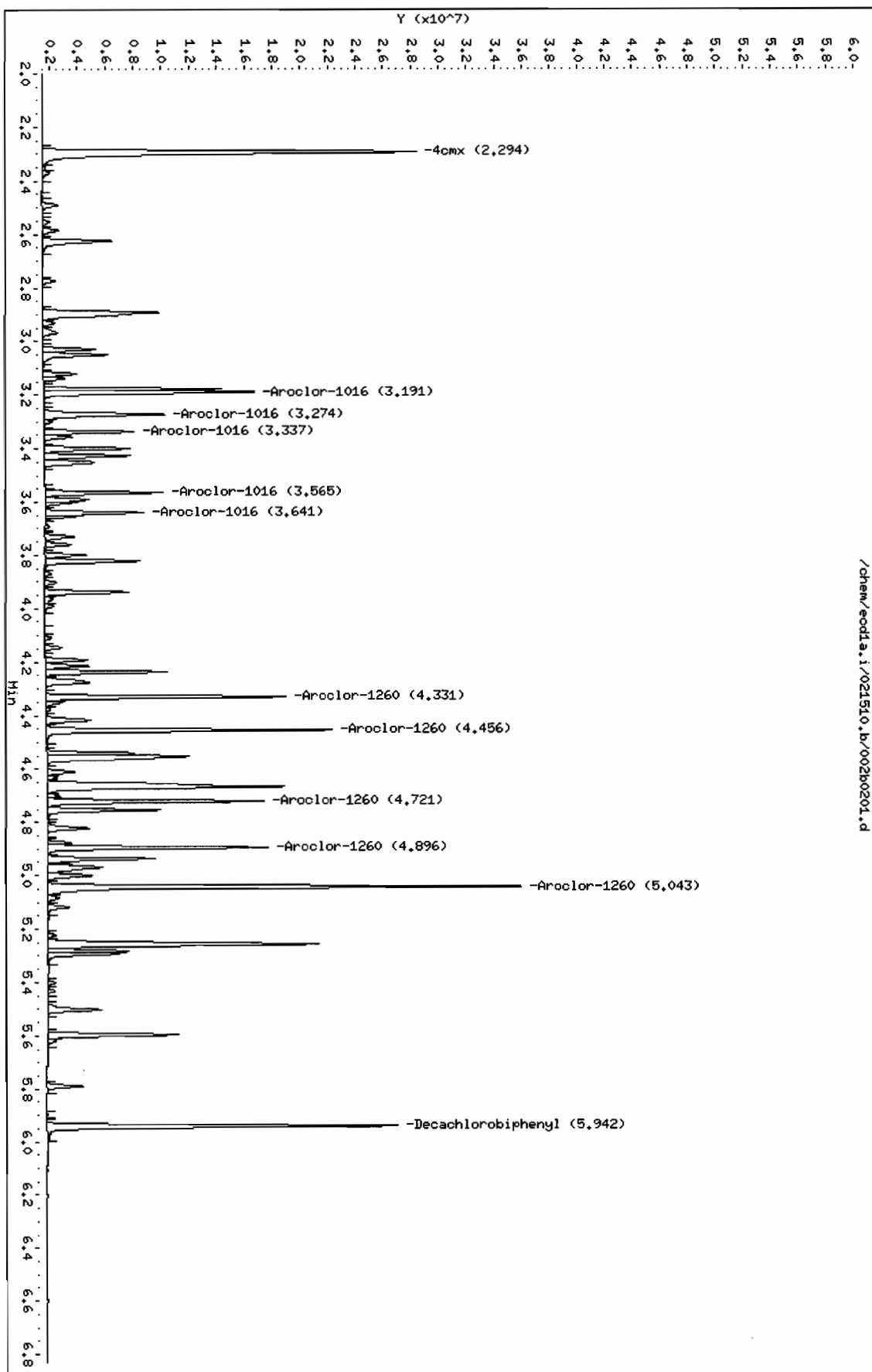
Page 1

Column phase: CLP2

Instrument: eod1a.i

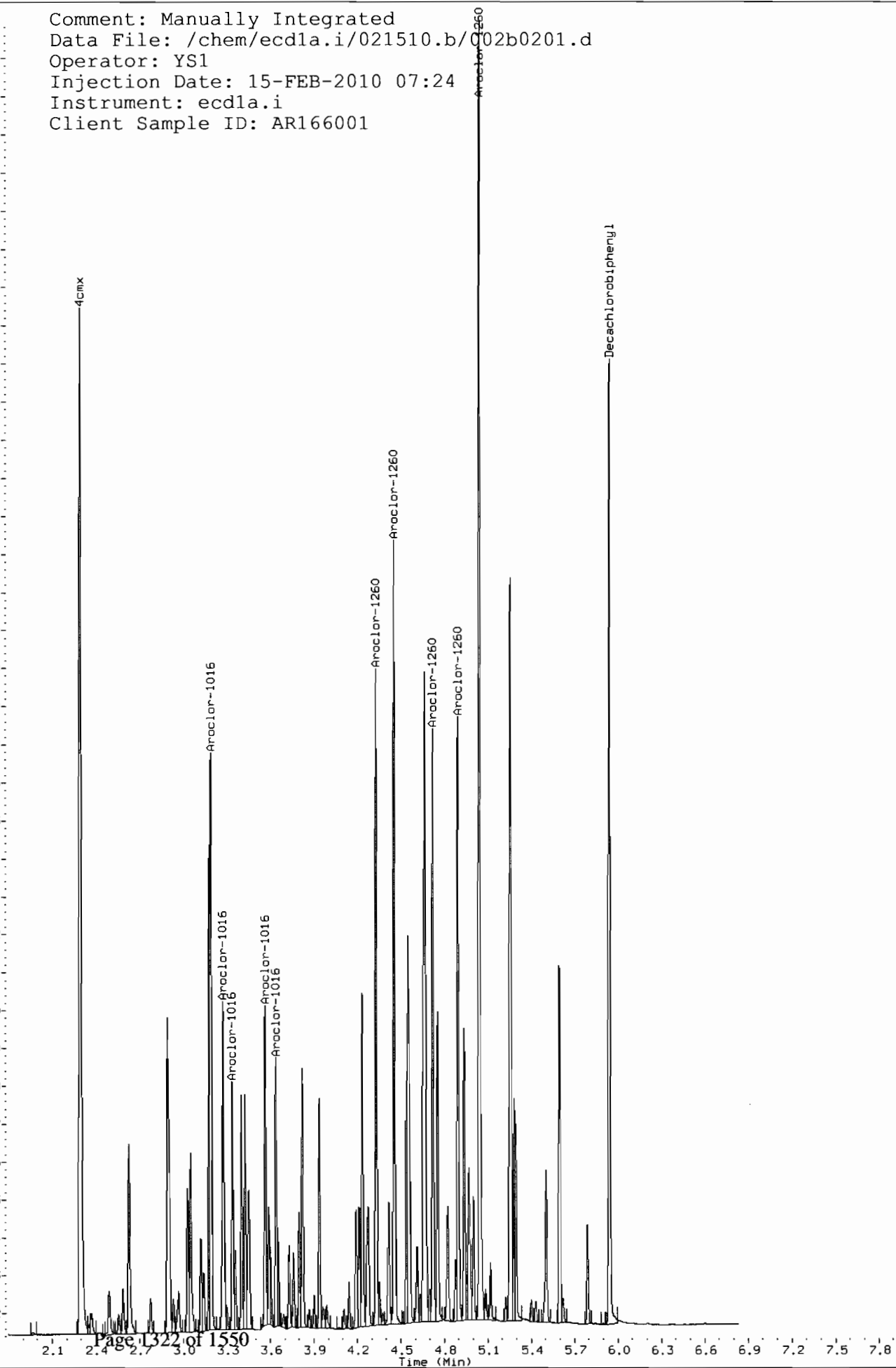
Operator: YSL

Column diameter: 0.25

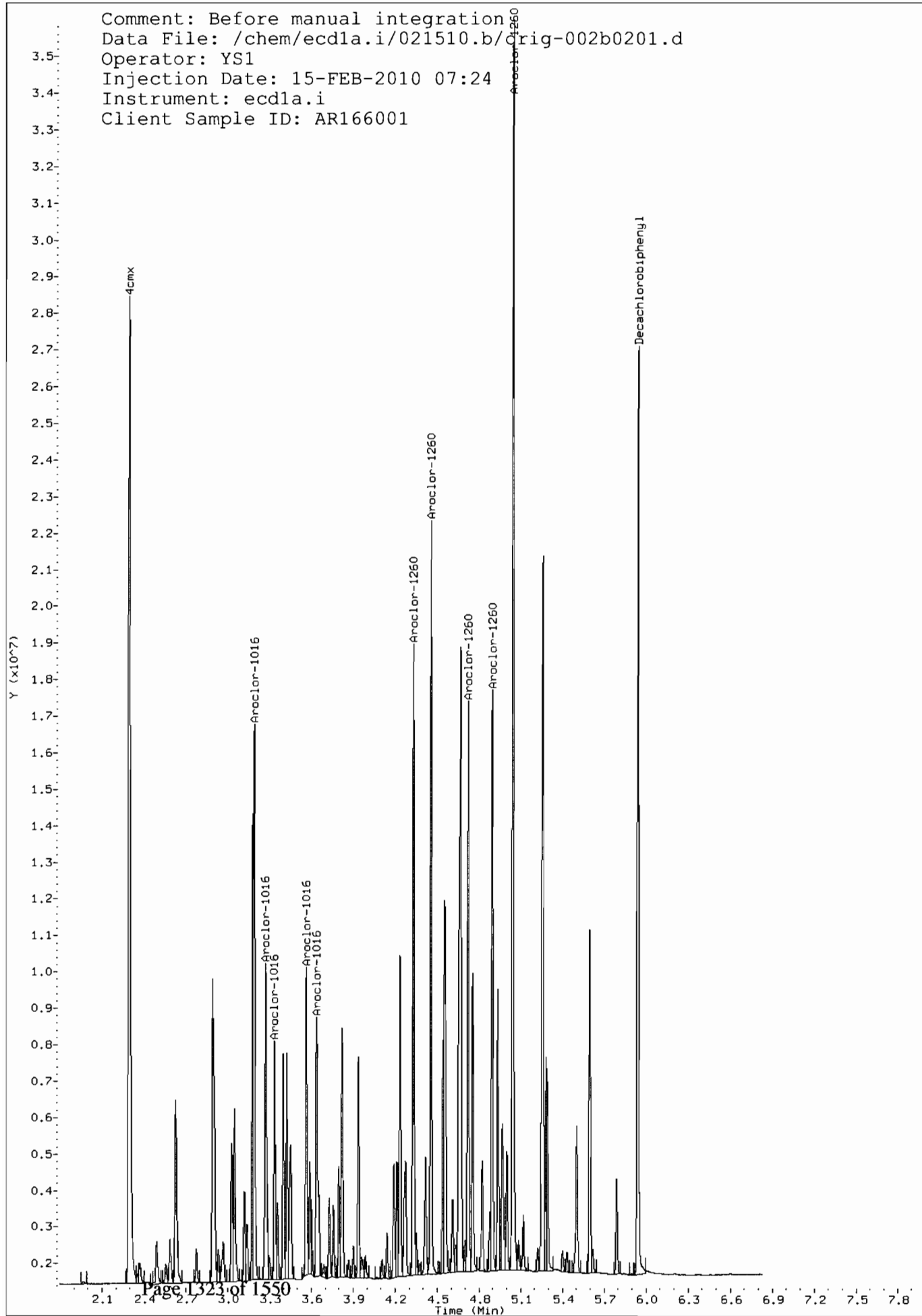


Comment: Manually Integrated
Data File: /chem/ecdl1a.i/021510.b/002b0201.d
Operator: YS1
Injection Date: 15-FEB-2010 07:24
Instrument: ecd1a.i
Client Sample ID: AR166001

Y (x10⁻⁷)



Comment: Before manual integration
Data File: /chem/ecdl1.i/021510.b/Orig-002b0201.d
Operator: YS1
Injection Date: 15-FEB-2010 07:24
Instrument: ecd1a.i
Client Sample ID: AR166001



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021510.b/003f0301.d

Lab Smp Id: WAR091216-54

Client Smp ID: AR125401

Inj Date : 15-FEB-2010 07:34

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR091216-54

Misc Info :

Comment :

Method : /chem/ecdl1a.i/021510.b/ECD1-F-8082-021110.m

Meth Date : 15-Feb-2010 11:16 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 3

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1254.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
6 Aroclor-1254					CAS #: 11097-69-1	
3.264	3.264	0.000	15302046 1000.00	969	80.00- 120.00	100.00
3.419	3.419	0.000	20710240 1000.00	970	115.34- 155.34	135.34
3.653	3.653	0.000	27104640 1000.00	994	157.13- 197.13	177.13
3.816	3.816	0.000	20419344 1000.00	990	113.44- 153.44	133.44
3.925	3.925	0.000	19815035 1000.00	1010	109.49- 149.49	129.49
Average of Peak Amounts =				987		

Data File: /chem/ecdl1.i/021510.b/003f0301.d

Date : 15-FEB-2010 07:34

Client ID: AR125401

Sample Info: IWR091216-54

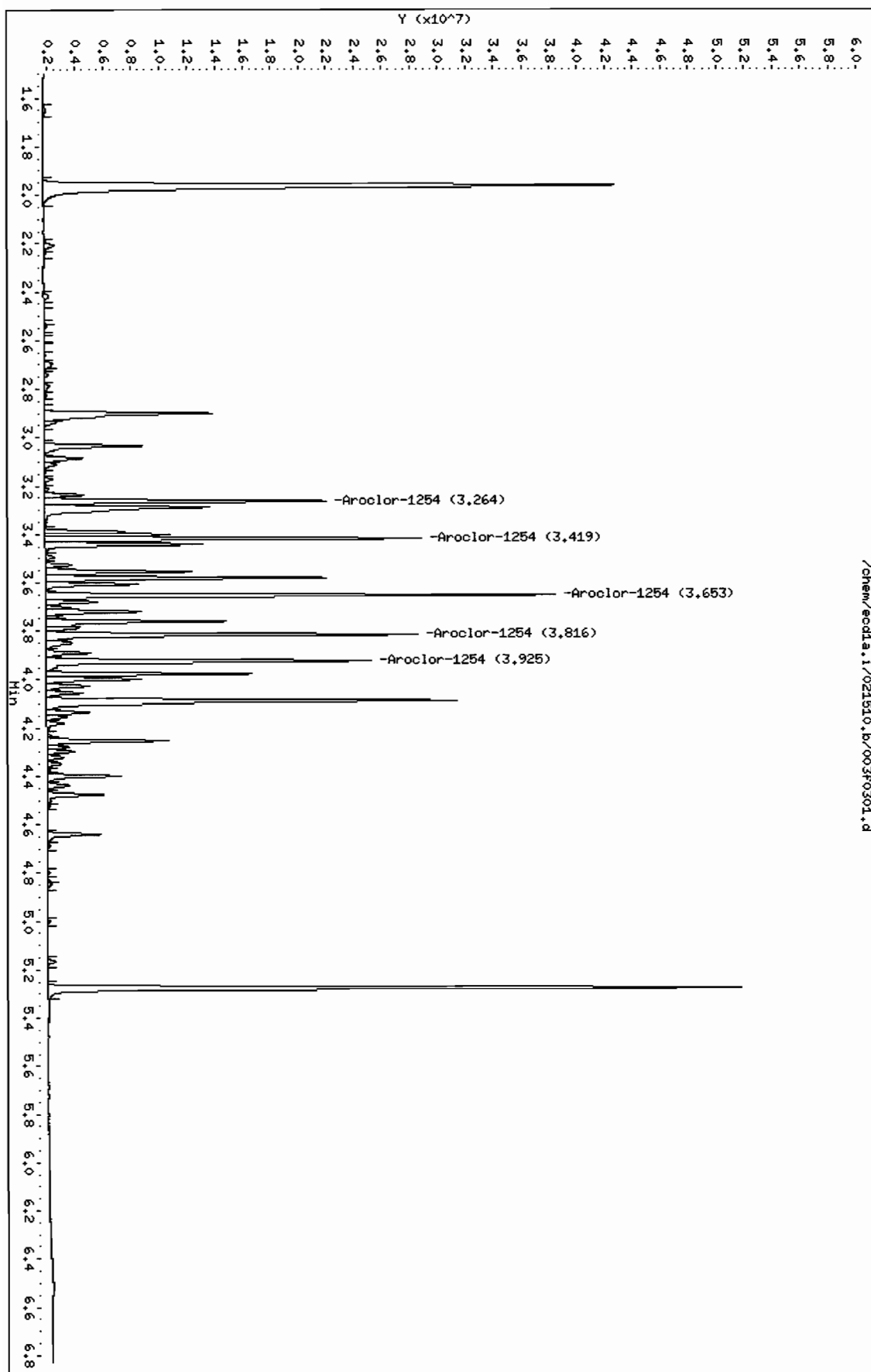
Column phase: CLP1

Instrument: ecdl1.i

Operator: YSL

Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecdl1a.i/021510.b/003b0301.d
 Lab Smp Id: WAR091216-54 Client Smp ID: AR125401
 Inj Date : 15-FEB-2010 07:34
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |WAR091216-54
 Misc Info :
 Comment :
 Method : /chem/ecdl1a.i/021510.b/ECD1-B-8082-021110.m
 Meth Date : 15-Feb-2010 11:24 yip00818 Quant Type: ESTD
 Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1254.sub
 Target Version: 3.50 Sample Matrix: None

AMOUNTS

			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
6 Aroclor-1254				CAS #: 11097-69-1			
3.399	3.399	0.000	6179864	1000.00	932	80.00- 120.00	100.00
3.821	3.821	0.000	11160650	1000.00	954	160.60- 200.60	180.60
3.938	3.938	0.000	12257426	1000.00	951	178.34- 218.34	198.34
4.214	4.214	0.000	17153421	1000.00	970	257.57- 297.57	277.57
4.351	4.351	0.000	12291435	1000.00	932	178.89- 218.89	198.89
Average of Peak Amounts =				948			

Data File: /chem/ecdl1a.i/021510.b/00300301.d

Date: 15-FEB-2010 07:34

Client ID: AR125401

Sample Info: 14AR091216-54

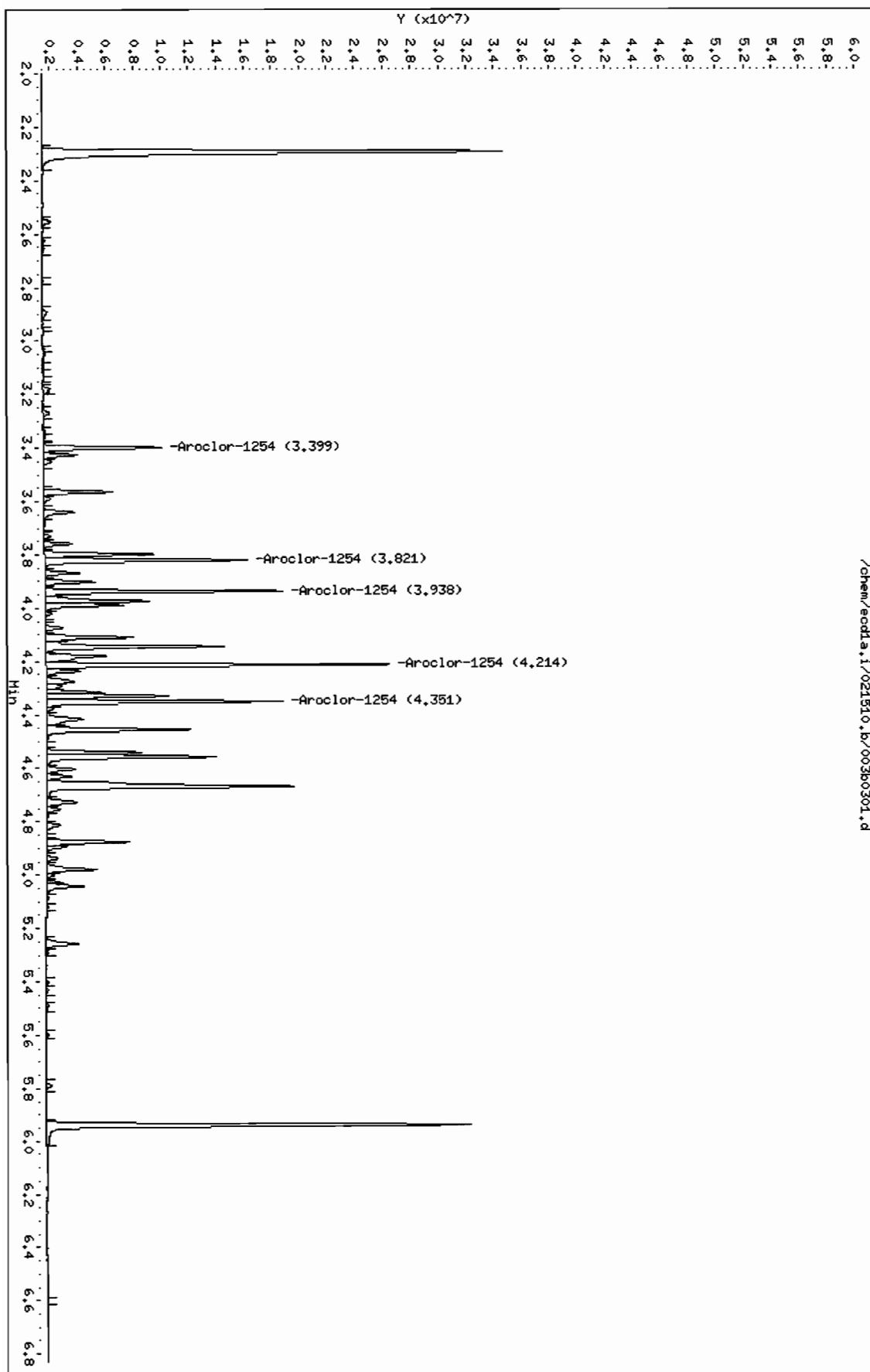
Column phase: CLP2

Instrument: ecdl1a.i

Operator: YSI

Column diameter: 0.25

Page 1



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021510.b/004f0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 15-FEB-2010 07:45

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR091217-42

Misc Info :

Comment :

Method : /chem/ecdl1a.i/021510.b/ECD1-F-8082-021110.m

Meth Date : 15-Feb-2010 11:16 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 4

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1242.sub

Target Version: 3.50

Sample Matrix: None

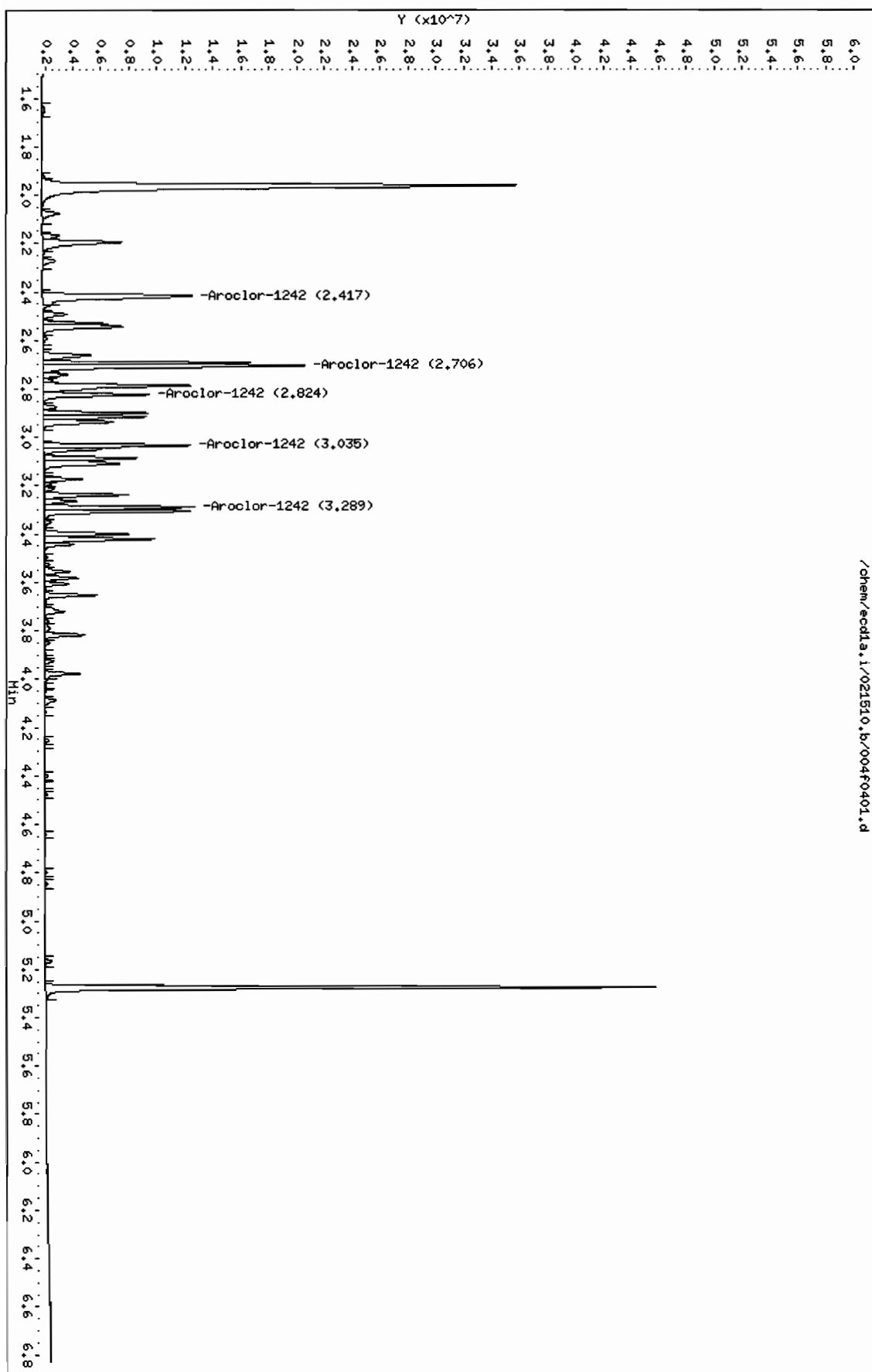
AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
4 Aroclor-1242					CAS #: 53469-21-9	
2.417	2.417	0.000	13287348 1000.00	934	80.00- 120.00	100.00
2.706	2.706	0.000	16786911 1000.00	973	106.34- 146.34	126.34
2.824	2.824	0.000	6422245 1000.00	956	28.33- 68.33	48.33
3.035	3.035	0.000	8373335 1000.00	944	43.02- 83.02	63.02
3.289	3.289	0.000	8158916 1000.00	949	41.40- 81.40	61.40
Average of Peak Amounts =				951		

Data File: /chem/ecdl1a.1/021510.b/004f0401.d
Date: 15-FEB-2010 07:45
Client ID: AR124201
Sample Info: 1MAR091217-42
Column phase: CLP1

Instrument: ecdl1a.1
Operator: YSI
Column diameter: 0.25

Page 1



Report Date: 15-Feb-2010 12:10

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021510.b/004b0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 15-FEB-2010 07:45

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR091217-42

Misc Info :

Comment :

Method : /chem/ecdl1a.i/021510.b/ECD1-B-8082-021110.m

Meth Date : 15-Feb-2010 11:24 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 4

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1242.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
----	--------	--------	-----------------------------	-------------------	--------------	-------

4 Aroclor-1242

CAS #: 53469-21-9

3.191	3.191	0.000	9888721 1000.00	920	80.00- 120.00	100.00
3.273	3.273	0.000	6707304 1000.00	896	47.83- 87.83	67.83
3.564	3.564	0.000	5286554 1000.00	891	33.46- 73.46	53.46
3.798	3.798	0.000	5399164 1000.00	906	34.60- 74.60	54.60
3.827	3.827	0.000	6084217 1000.00	912	41.53- 81.53	61.53

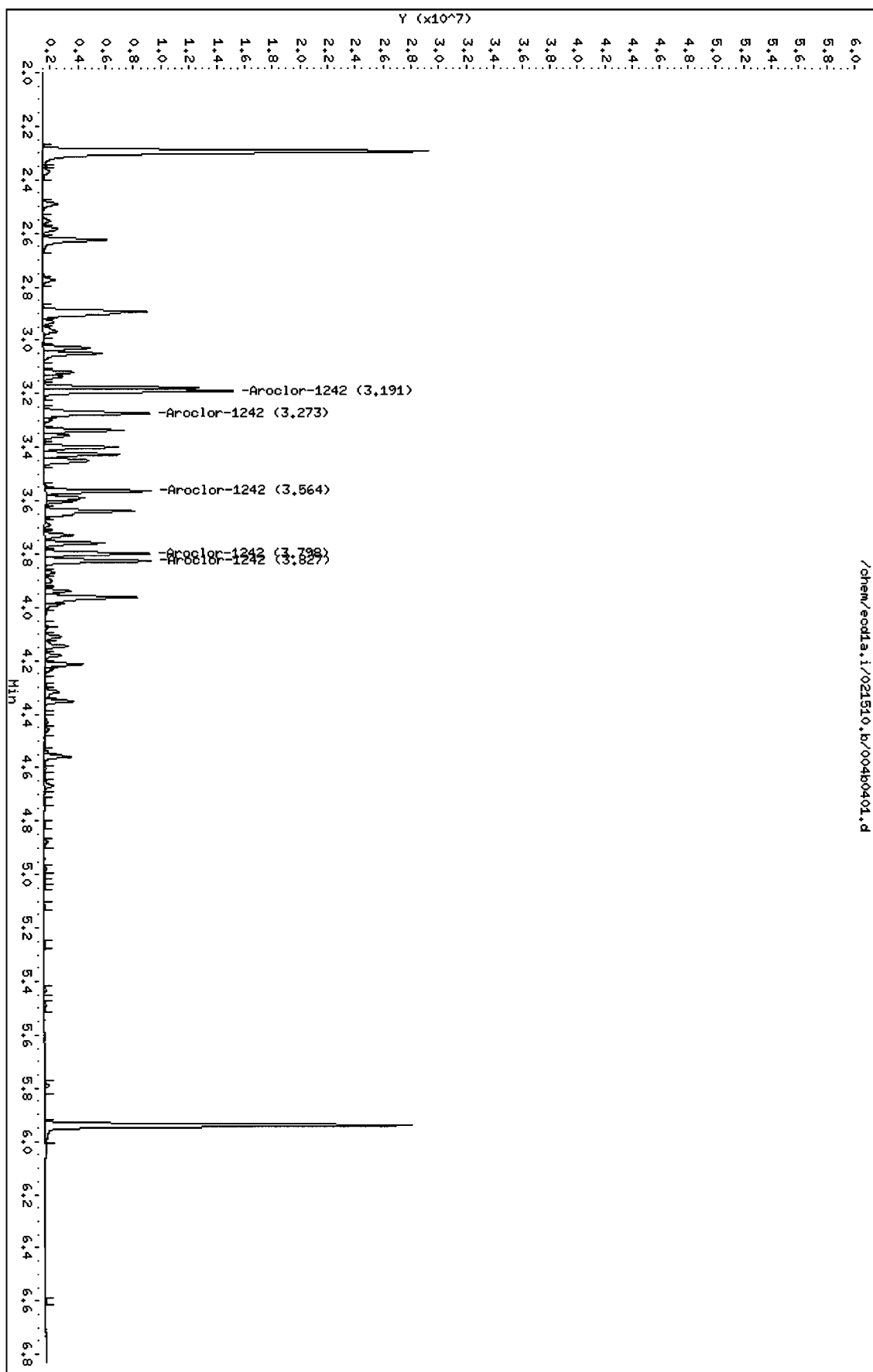
Average of Peak Amounts =

905

Data File: /chem/eod1a.i/021510.b/004b0401.d
Date: 15-FEB-2010 07:45
Client ID: AR124201
Sample Info: 1MAR091217-42
Column phase: CLP2

Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021510.b/005f0501.d

Lab Smp Id: WAR091217-48

Client Smp ID: AR124801

Inj Date : 15-FEB-2010 07:55

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR091217-48

Misc Info :

Comment :

Method : /chem/ecdl1a.i/021510.b/ECD1-F-8082-021110.m

Meth Date : 15-Feb-2010 11:16 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 5

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1248.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT	ON-COL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO		
=====	=====	=====	=====	=====	=====	=====	=====	
5 Aroclor-1248				CAS #: 12672-29-6				
3.087	3.087	0.000	8892991	1000.00	941	80.00-	120.00	100.00
3.238	3.238	0.000	7548767	1000.00	913	64.88-	104.88	84.88
3.289	3.289	0.000	15118414	1000.00	949	150.00-	190.00	170.00
3.420	3.420	0.000	11887970	1000.00	909	113.68-	153.68	133.68
3.653	3.653	0.000	7554164	1000.00	856	64.95-	104.95	84.95
Average of Peak Amounts =				914				

Data File: /chem/ecdl1.i/021510.b/005f0501.d

Date: 15-FEB-2010 07:55

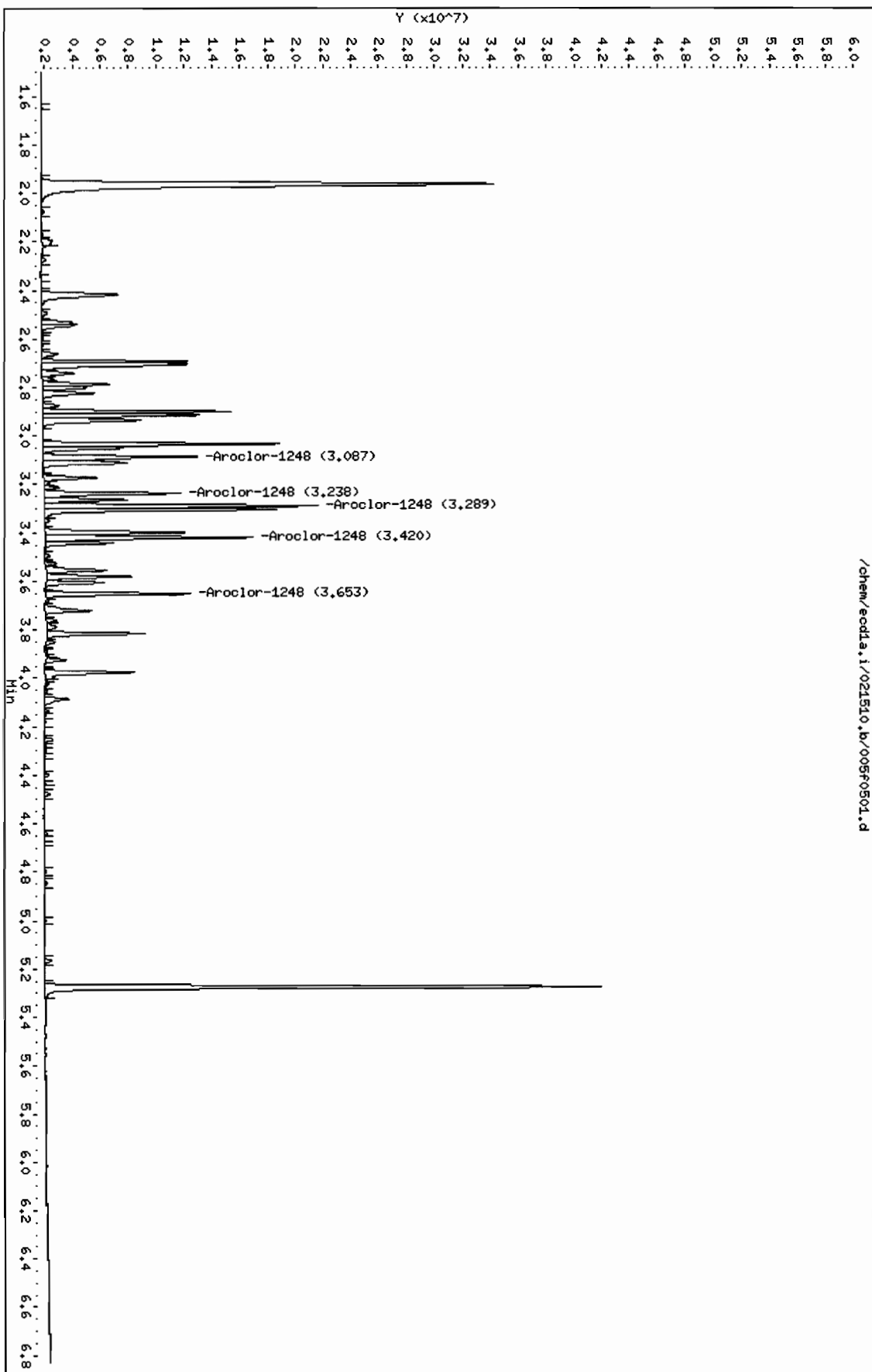
Client ID: AR124801

Sample Info: 1MAR091217-48

Page 1

Column phase: CLP1

Instrument: ecdl1.i
Operator: YSI
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021510.b/005b0501.d

Lab Smp Id: WAR091217-48

Client Smp ID: AR124801

Inj Date : 15-FEB-2010 07:55

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR091217-48

Misc Info :

Comment :

Method : /chem/ecdla.i/021510.b/ECD1-B-8082-021110.m

Meth Date : 15-Feb-2010 11:24 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 5

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1248.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
5 Aroclor-1248					CAS #: 12672-29-6	
3.399	3.399	0.000	6861808 1000.00	894	80.00- 120.00	100.00
3.564	3.564	0.000	8562797 1000.00	906	104.79- 144.79	124.79
3.798	3.798	0.000	9660785 1000.00	898	120.79- 160.79	140.79
3.825	3.825	0.000	10873144 1000.00	905	138.46- 178.46	158.46
3.962	3.962	0.000	10358265 1000.00	896	130.96- 170.96	150.96
Average of Peak Amounts =				900		

Data File: /chem/ecdl.a.i/021510.b/005b0501.d

Date: 15-FEB-2010 07:55

Client ID: AR124801

Sample Info: 1148091217-48

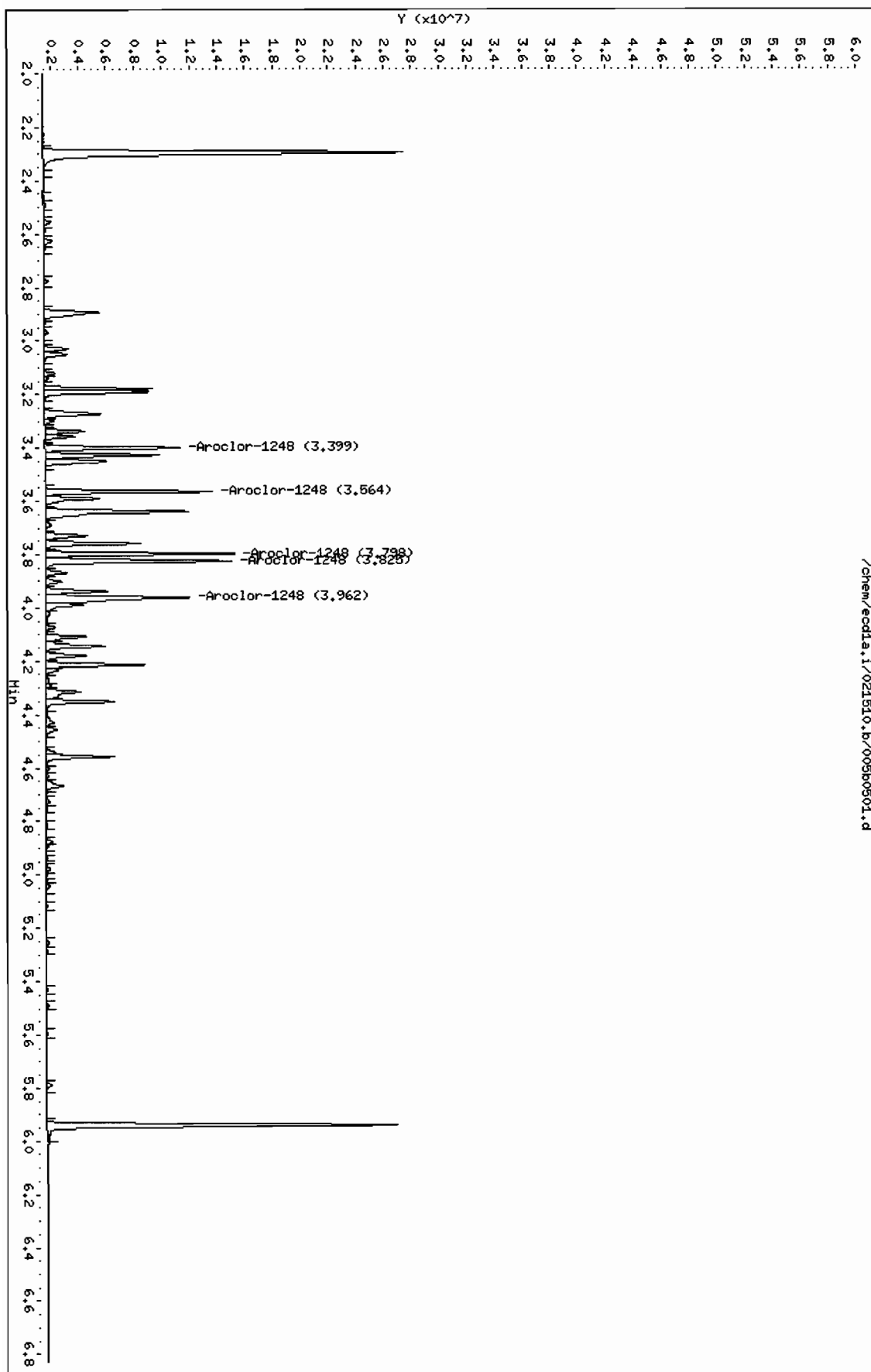
Column phase: CLP2

Instrument: ecdl.a.i

Operator: YSI

Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021510.b/006f0601.d
Lab Smp Id: WAR100104-32 Client Smp ID: AR123201
Inj Date : 15-FEB-2010 08:06
Operator : YS1 Inst ID: ecdla.i
Smp Info : |WAR100104-32
Misc Info :
Comment :
Method : /chem/ecdla.i/021510.b/ECD1-F-8082-021110.m
Meth Date : 15-Feb-2010 11:16 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
2.419	2.419	0.000	7691428 1000.00	1120	80.00- 120.00	100.00
2.707	2.707	0.000	9943032 1000.00	1180	109.27- 149.27	129.27
2.788	2.788	0.000	6455970 1000.00	1150	63.94- 103.94	83.94
3.035	3.035	0.000	4725622 1000.00	1190	41.44- 81.44	61.44
3.289	3.289	0.000	4406064 1000.00	1140	37.29- 77.29	57.29
Average of Peak Amounts =			1.16e+03			

Data File: /chem/ecdl1.i/021510.b/006f0601.d

Date: 15-FEB-2010 08:06

Client ID: RR123201

Sample Info: IMR100104-32

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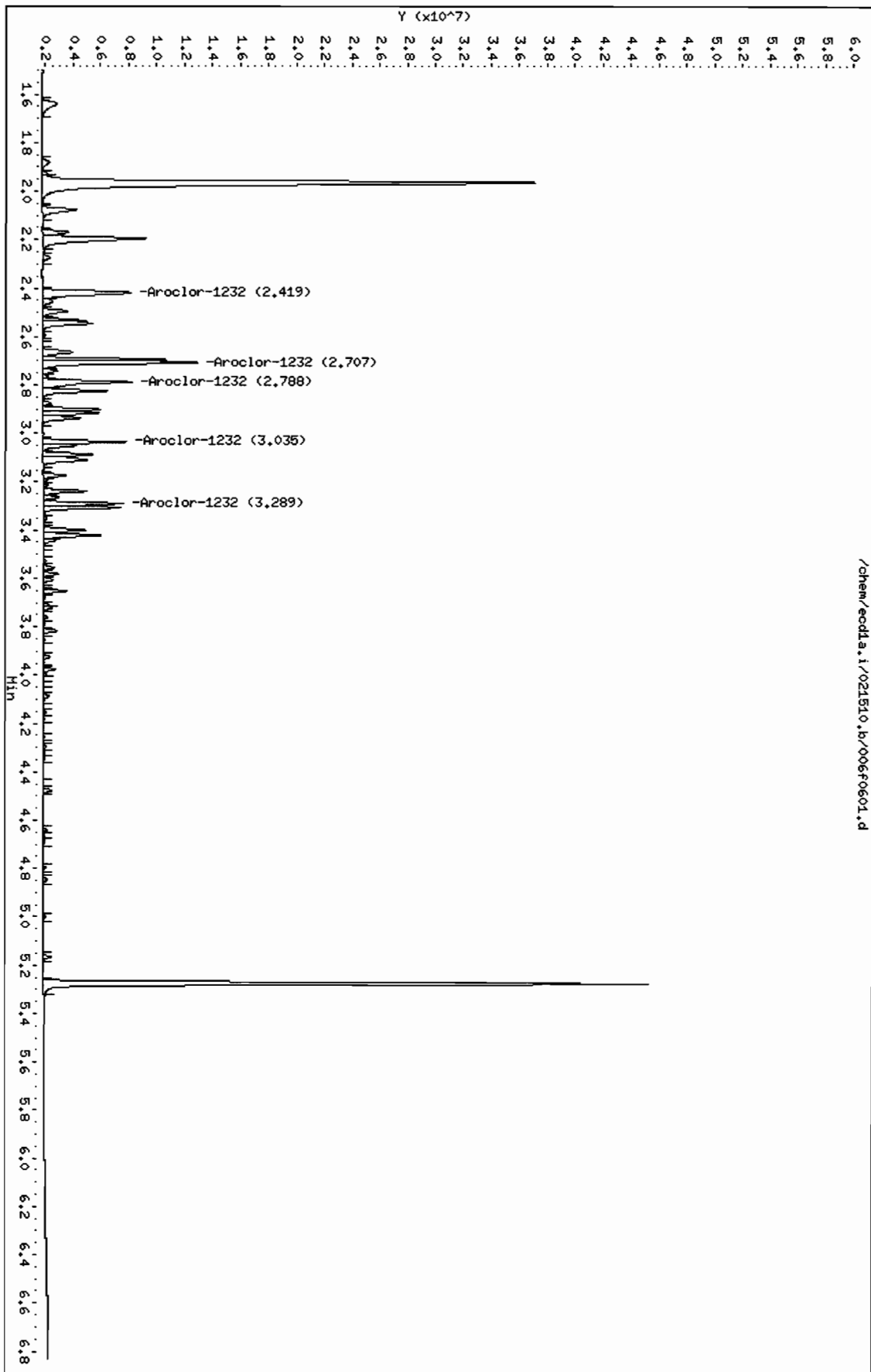
Instrument: ecdl1.i

Operator: YSL

Column diameter: 0.25

Column phase: CLP1

/chem/ecdl1.i/021510.b/006f0601.d



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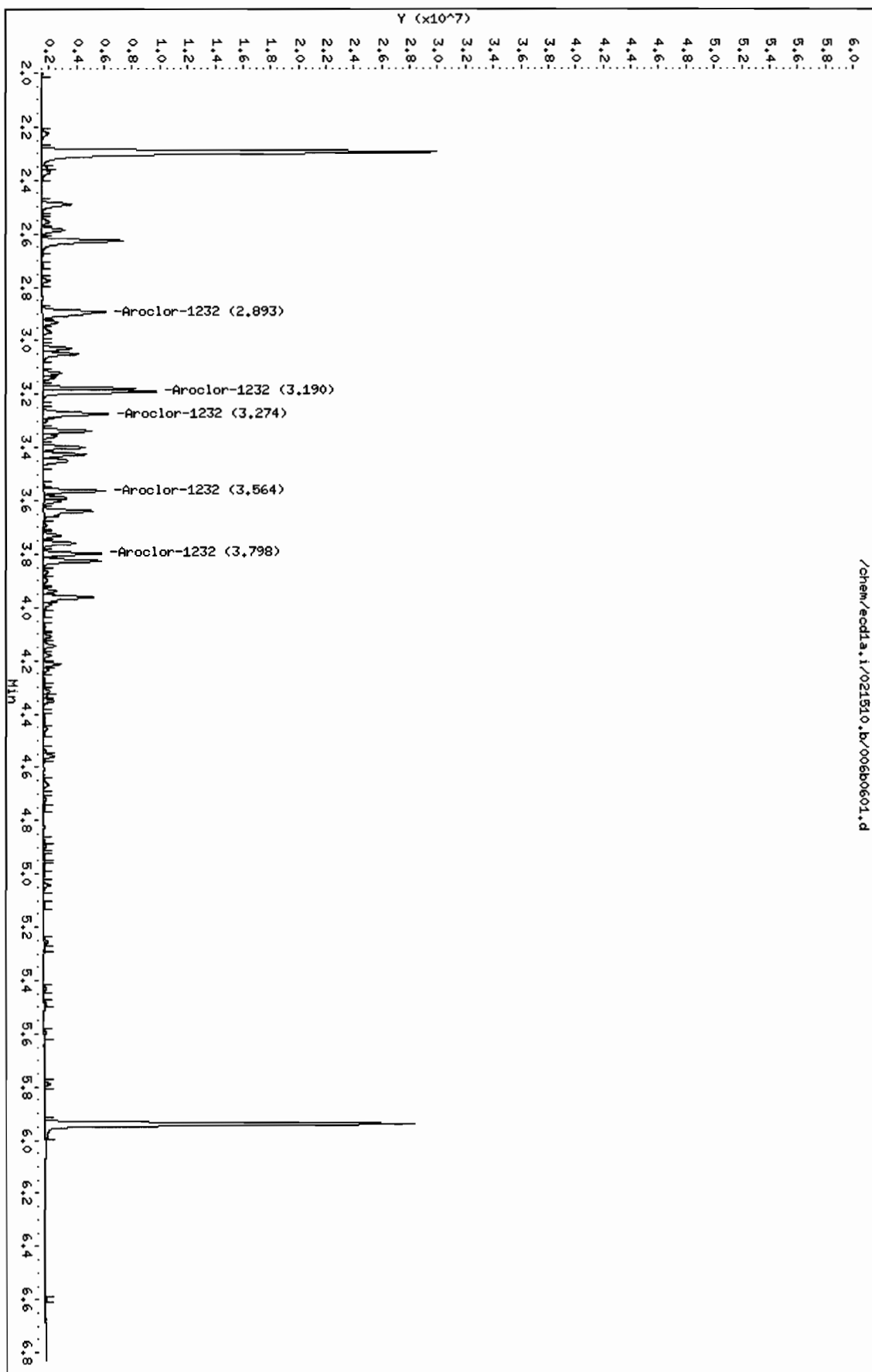
RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdla.i/021510.b/006b0601.d
Lab Smp Id: WAR100104-32 Client Smp ID: AR123201
Inj Date : 15-FEB-2010 08:06
Operator : YS1 Inst ID: ecdla.i
Smp Info : |WAR100104-32
Misc Info :
Comment :
Method : /chem/ecdla.i/021510.b/ECD1-B-8082-021110.m
Meth Date : 15-Feb-2010 11:24 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS								
			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE	RATIO	
---	-----	-----	-----	-----	-----	-----	-----	-----
3 Aroclor-1232					CAS #: 11141-16-5			
2.893	2.893	0.000	5466264	1000.00	928	80.00- 120.00	100.00	
3.190	3.190	0.000	6225127	1000.00	1000	93.88- 133.88	113.88	
3.274	3.274	0.000	4137999	1000.00	952	55.70- 95.70	75.70	
3.564	3.564	0.000	3066157	1000.00	986	36.09- 76.09	56.09	
3.798	3.798	0.000	3000492	1000.00	940	34.89- 74.89	54.89	
Average of Peak Amounts =					961			

Data File: /chem/ecdl.a.i/021510.b/0060601.d
Date: 15-FEB-2010 08:06
Client ID: AR123201
Sample Info: 1MAR100104-32
Column phase: CLP2

Instrument: ecdl.a.i
Operator: YSI
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd1a.i/021510.b/007f0701.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 15-FEB-2010 08:16

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100104-21

Misc Info :

Comment :

Method : /chem/ecd1a.i/021510.b/ECD1-F-8082-021110.m

Meth Date : 15-Feb-2010 11:16 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 7

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1221.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
2.075	2.075	0.000	5090399 1000.00	1180	80.00- 120.00	100.00
2.167	2.167	0.000	2754564 1000.00	1130	34.11- 74.11	54.11
2.193	2.193	0.000	12107555 1000.00	1180	217.85- 257.85	237.85

2 Aroclor-1221

CAS #: 11104-28-2

2.075	2.075	0.000	5090399 1000.00	1180	80.00- 120.00	100.00
2.167	2.167	0.000	2754564 1000.00	1130	34.11- 74.11	54.11
2.193	2.193	0.000	12107555 1000.00	1180	217.85- 257.85	237.85

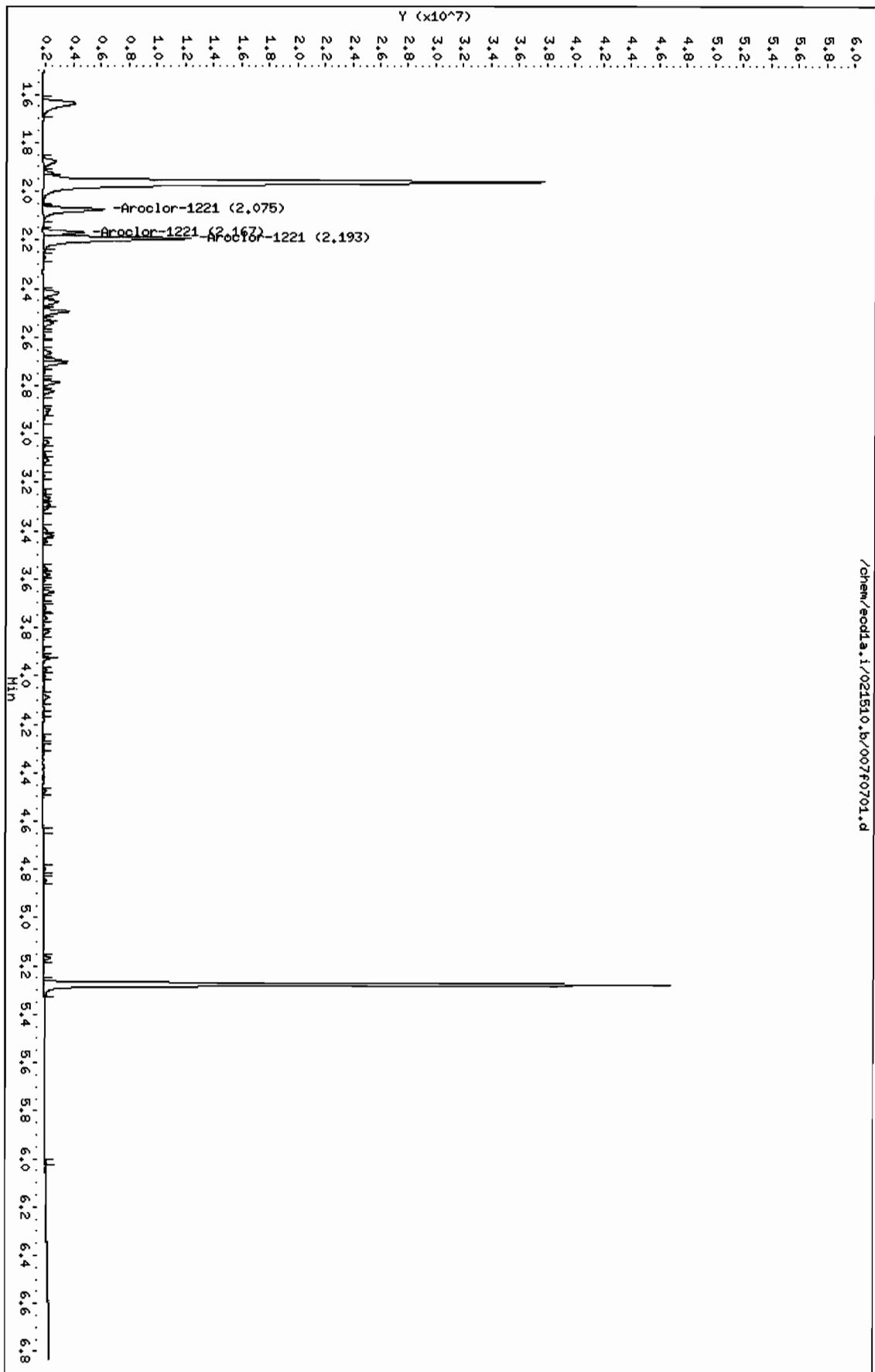
Average of Peak Amounts =

1.16e+03

Data File: /chem/ecod1a.i/021510.b/007f0701.d
Date : 15-FEB-2010 08:16
Client ID: AR122101
Sample Info: 1MAR100104-21
Column phase: CLP1

Instrument: ecod1a.i
Operator: YS1
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021510.b/007b0701.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 15-FEB-2010 08:16

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100104-21

Misc Info :

Comment :

Method : /chem/ecdl1a.i/021510.b/ECD1-B-8082-021110.m

Meth Date : 15-Feb-2010 11:24 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 7

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1221.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

=====	=====	=====	=====	=====	=====	=====
-------	-------	-------	-------	-------	-------	-------

2 Aroclor-1221

CAS #: 11104-28-2

2.490	2.490	0.000	3392711 1000.00	932	80.00- 120.00	100.00
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2.584	2.584	0.000	2205356 1000.00	947	45.00- 85.00	65.00
-------	-------	-------	-----------------	-----	--------------	-------

2.625	2.625	0.000	7596219 1000.00	936	203.90- 243.90	223.90
-------	-------	-------	-----------------	-----	----------------	--------

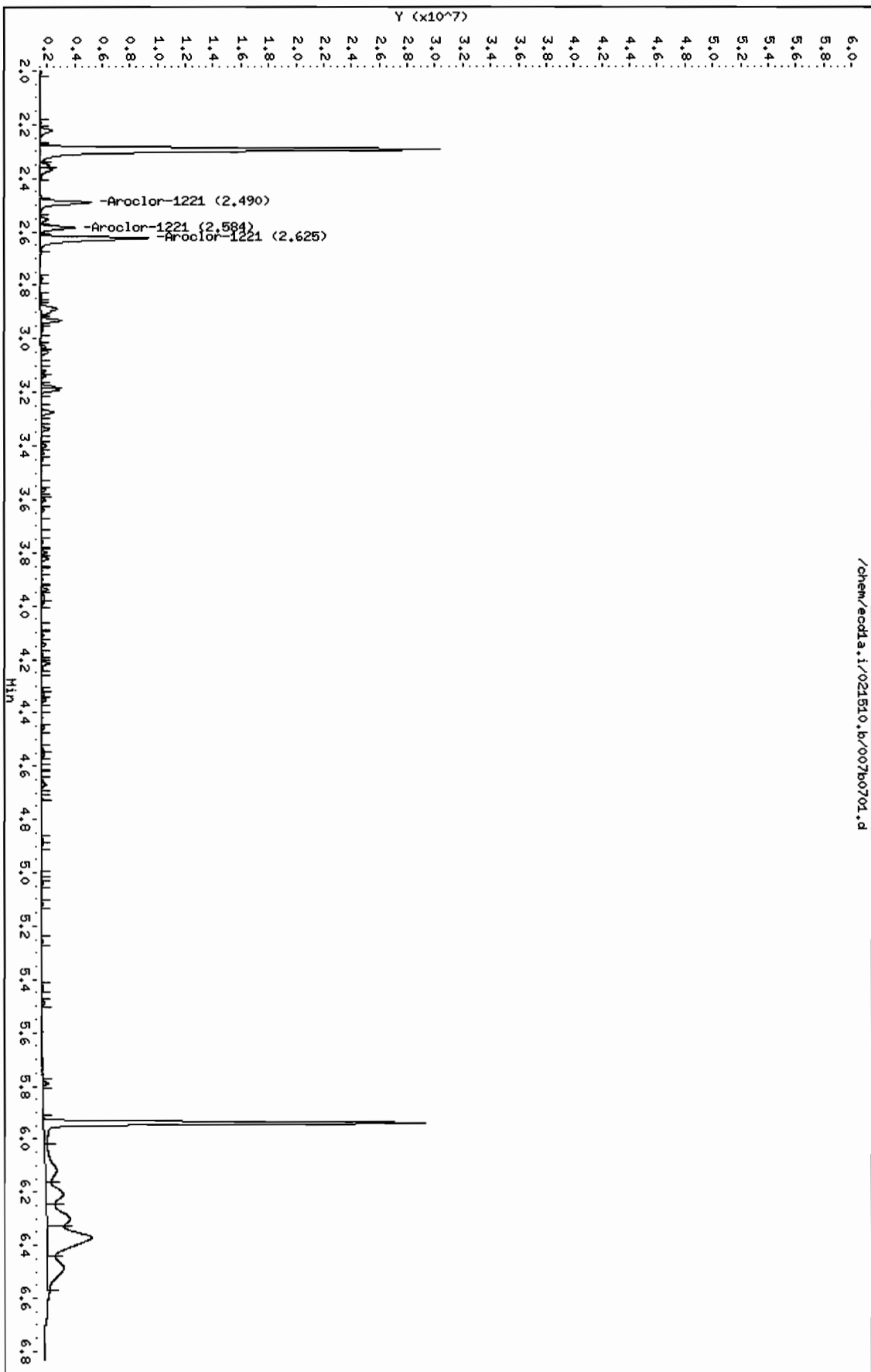
Average of Peak Amounts =

938

Data File: /chem/ecdl.a.i/021510.b/007b0701.d
Date : 15-FEB-2010 08:16
Client ID: AR122101
Sample Info: 1MAR100104-21
Column phase: CLP2

Instrument: ecdl.a.i
Operator: YS1
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021510.b/018f1801.d

Lab Smp Id: WAR100203-60 02

Client Smp ID: AR166002

Inj Date : 15-FEB-2010 10:13

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100203-60 02

Misc Info :

Comment :

Method : /chem/ecdla.i/021510.b/ECD1-F-8082-021110.m

Meth Date : 15-Feb-2010 11:16 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 18

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO	
---	-----	-----	-----	-----	-----	-----	
\$ 11 4cmx				CAS #: 877-09-8			
1.964	1.963	0.001	41838386 100.000	95.7	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.276	5.276	0.000	30418333 100.000	91.2	80.00- 120.00	100.00	

1 Aroclor-1016				CAS #: 12674-11-2			
2.419	2.418	0.001	14471481 1000.00	898	80.00- 120.00	100.00	
2.707	2.706	0.001	19026016 1000.00	962	111.47- 151.47	131.47	
2.787	2.787	0.000	11918531 1000.00	915	62.36- 102.36	82.36	
2.825	2.825	0.000	7198152 1000.00	925	29.74- 69.74	49.74	
3.036	3.036	0.000	9272729 1000.00	925	44.08- 84.08	64.08	
Average of Peak Amounts =				925			

7 Aroclor-1260				CAS #: 11096-82-5			
3.762	3.762	0.000	19037386 1000.00	1000	80.00- 120.00	100.00	
3.924	3.925	-0.001	28809090 1000.00	1020	131.33- 171.33	151.33	
4.155	4.156	-0.001	17144104 1000.00	1000	70.05- 110.05	90.05	
4.297	4.298	-0.001	17929149 1000.00	1000	74.18- 114.18	94.18	
4.477	4.477	0.000	40389005 1000.00	1040	192.16- 232.16	212.16	
Average of Peak Amounts =				1.01e+03			

Data File: /chem/ecda.i/021510.b/018f1801.d

Date: 15-FEB-2010 10:13

Client ID: AR166002

Sample Info: 11AP100203-60 02

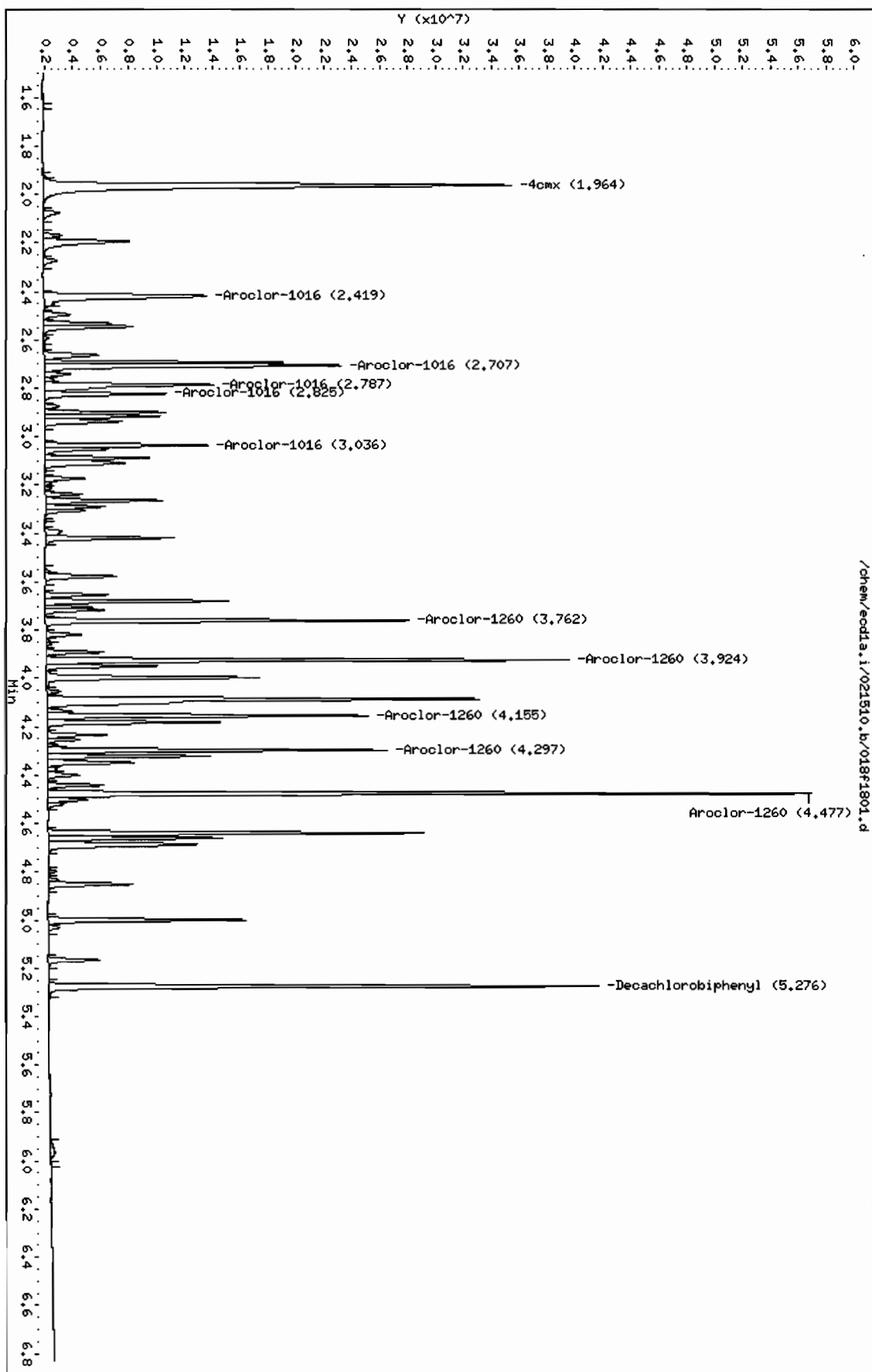
Page 1

Column phase: CLP1

Instrument: ecda.i

Operator: YSI

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021510.b/018b1801.d

Lab Smp Id: WAR100203-60 02

Client Smp ID: AR166002

Inj Date : 15-FEB-2010 10:13

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100203-60 02

Misc Info :

Comment :

Method : /chem/ecdl1a.i/021510.b/ECD1-B-8082-021110.m

Meth Date : 15-Feb-2010 11:24 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 18

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE		RATIO
==	=====	=====	=====		=====	=====		=====
\$ 11 4cmx					CAS #: 877-09-8			
2.295	2.294	0.001	26266801	100.000	91.6	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.941	5.942	-0.001	18917983	100.000	88.0	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.191	3.191	0.000	11108136	1000.00	894	80.00-	120.00	100.00 (M)
3.274	3.274	0.000	7340541	1000.00	861	46.08-	86.08	66.08
3.337	3.337	0.000	4543147	1000.00	865	20.90-	60.90	40.90
3.564	3.565	-0.001	5750130	1000.00	854	31.77-	71.77	51.77
3.640	3.641	-0.001	5465220	1000.00	864	29.20-	69.20	57.71
Average of Peak Amounts =					868			

7 Aroclor-1260					CAS #: 11096-82-5			
4.331	4.331	0.000	11763747	1000.00	934	80.00-	120.00	100.00
4.455	4.456	-0.001	14390107	1000.00	955	102.33-	142.33	122.33
4.722	4.721	0.001	10834914	1000.00	933	72.10-	112.10	92.10
4.895	4.896	-0.001	11244072	1000.00	935	75.58-	115.58	95.58
5.042	5.043	-0.001	25140711	1000.00	974	193.71-	233.71	213.71
Average of Peak Amounts =					946			

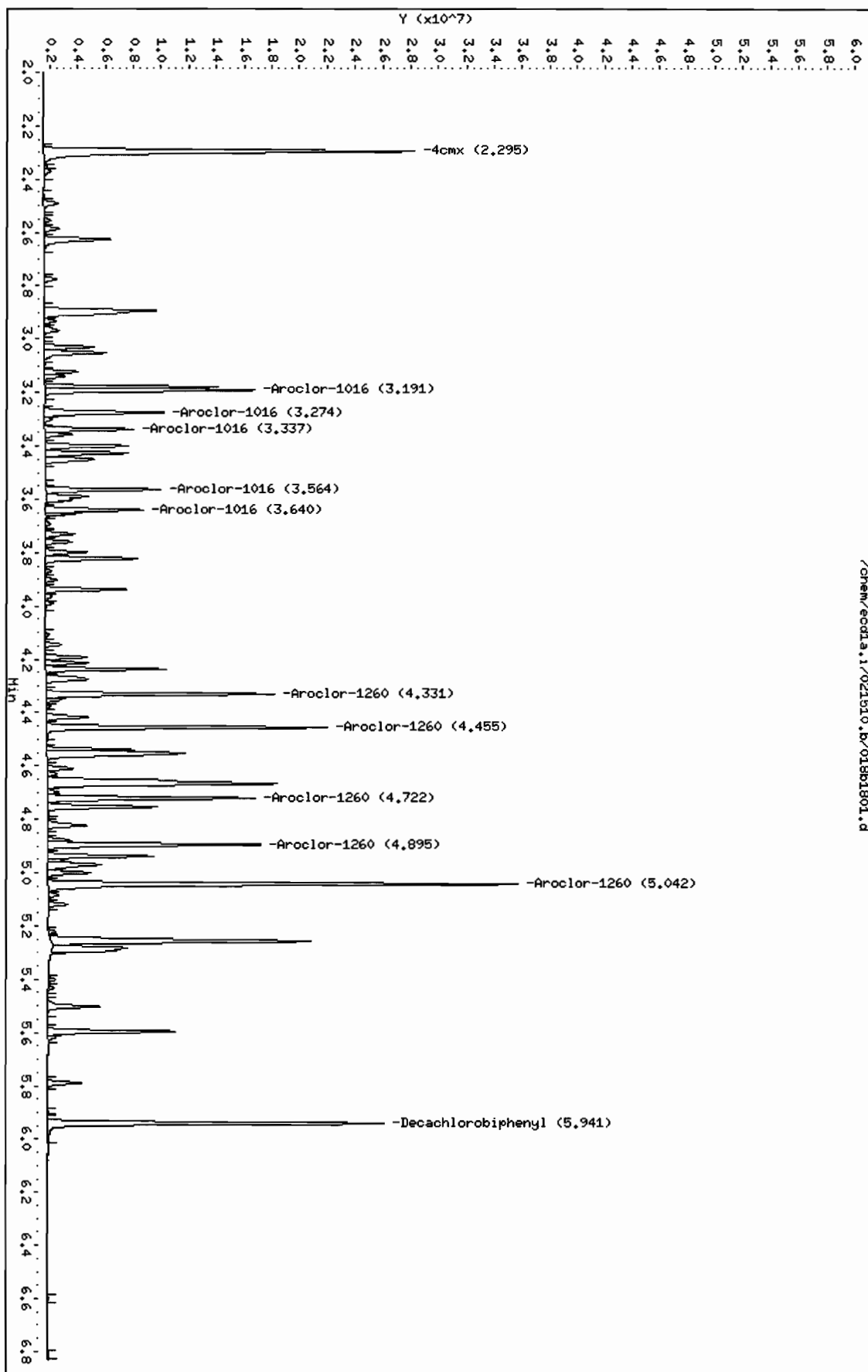
QC Flag Legend

M - Compound response manually integrated.

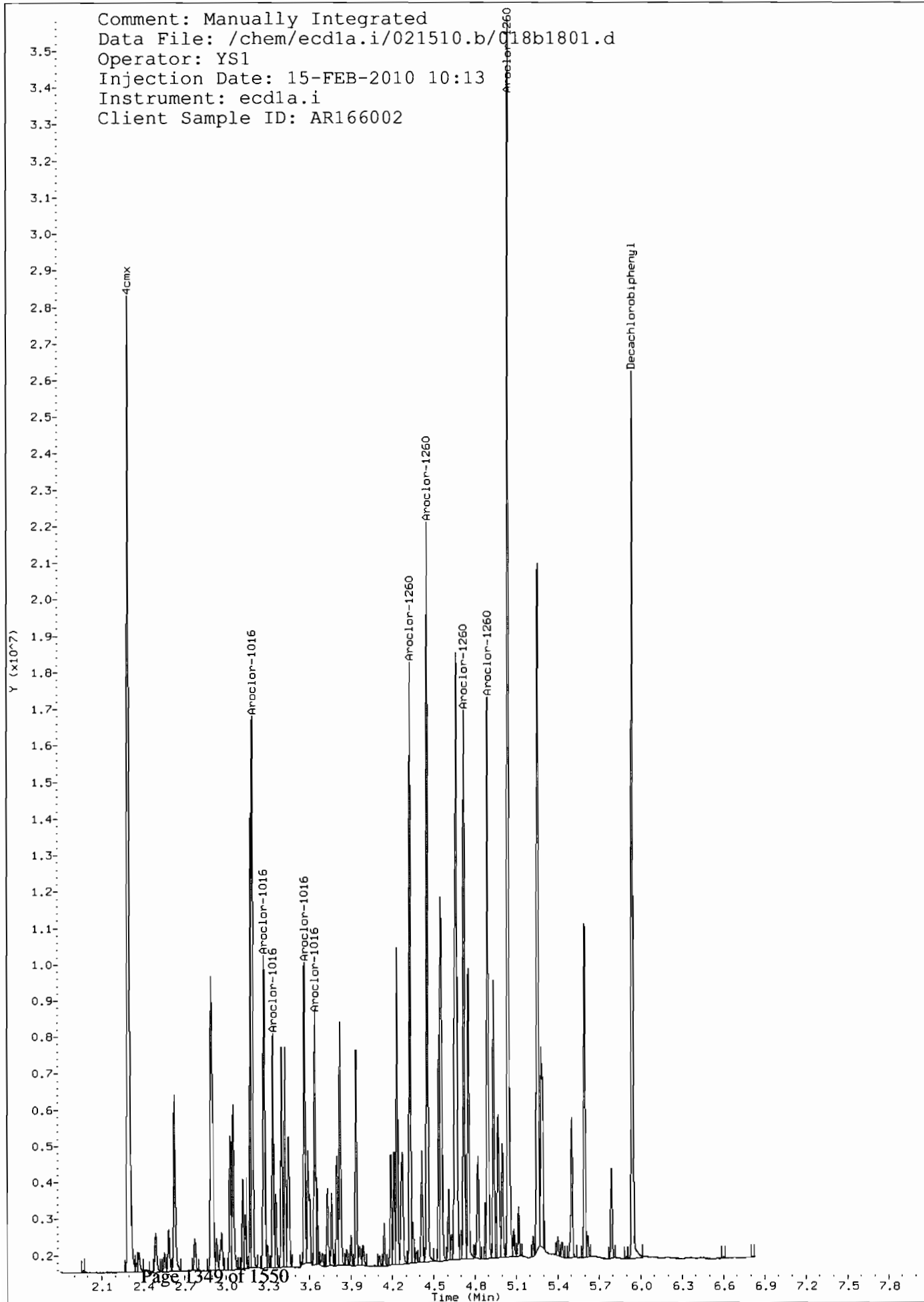
Data File: /chem/ecdda,i/021510,b/018b1801.d
Date: 15-FEB-2010 10:13
Client ID: AR166002
Sample Info: 14AR100203-60 02

Column phase: CLP2

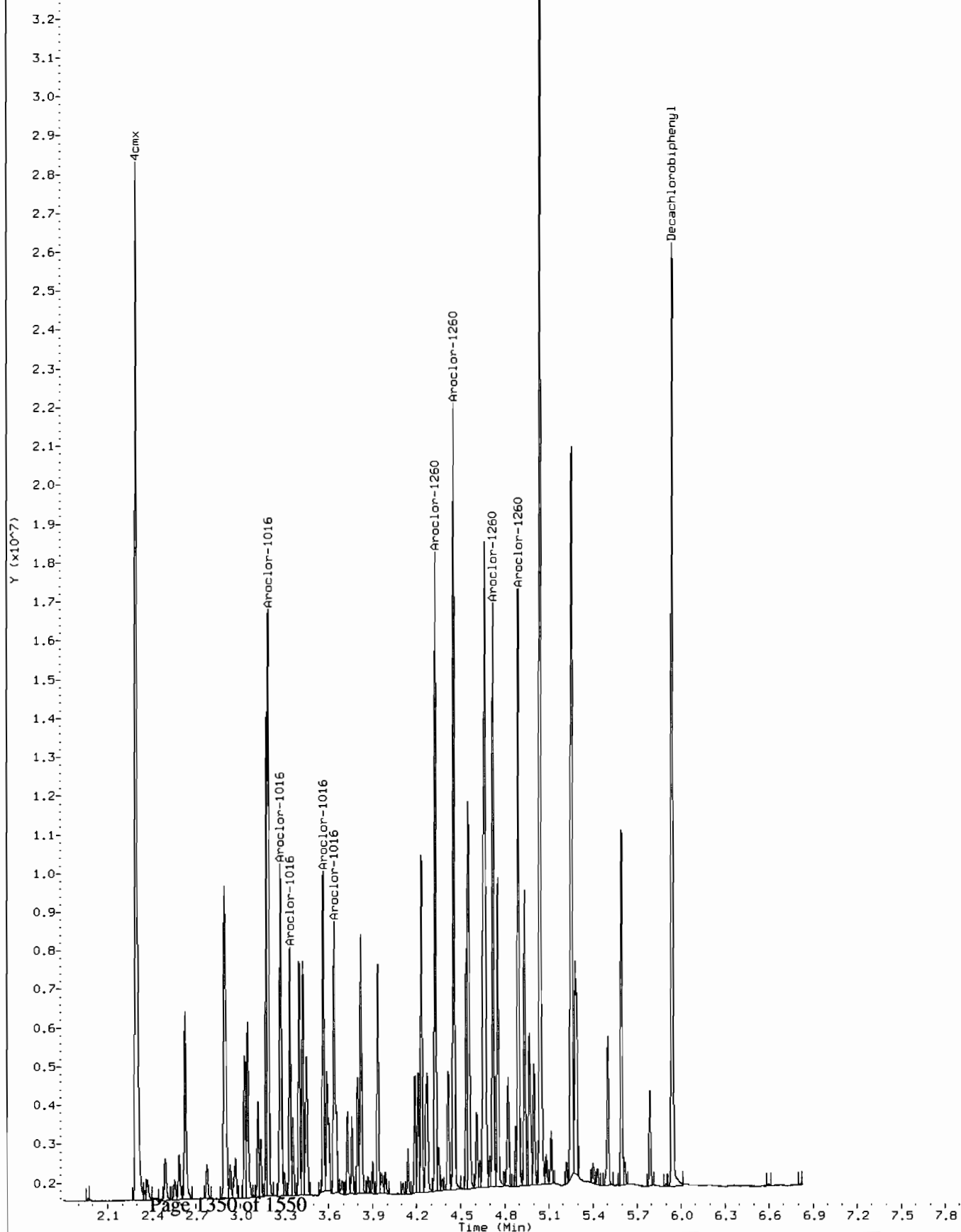
Instrument: ecdda,i
Operator: YSL
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/021510.b/C18b1801.d
Operator: YS1
Injection Date: 15-FEB-2010 10:13
Instrument: ecdl1a.i
Client Sample ID: AR166002



Comment: Before manual integration
Data File: /chem/ecdla.i/021510.b/Orig-018b1801.d
Operator: YS1
Injection Date: 15-FEB-2010 10:13
Instrument: ecdla.i
Client Sample ID: AR166002



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021510.b/030f3001.d

Lab Smp Id: WAR100203-60 03

Client Smp ID: AR166003

Inj Date : 15-FEB-2010 12:23

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100203-60 03

Misc Info :

Comment :

Method : /chem/ecdl1a.i/021510.b/ECD1-F-8082-021110.m

Meth Date : 15-Feb-2010 12:37 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 30

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclp1

AMOUNTS

			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.964	1.963	0.001	42254700	100.000	96.6	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.275	5.276	-0.001	30449640	100.000	91.3	80.00- 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2		
2.418	2.418	0.000	14624818	1000.00	908	80.00- 120.00	100.00
2.706	2.706	0.000	18590074	1000.00	940	107.11- 147.11	127.11
2.786	2.787	-0.001	11993721	1000.00	921	62.01- 102.01	82.01
2.824	2.825	-0.001	7268789	1000.00	934	29.70- 69.70	49.70
3.035	3.036	-0.001	9310428	1000.00	929	43.66- 83.66	63.66
Average of Peak Amounts =					926		

7 Aroclor-1260					CAS #: 11096-82-5		
3.761	3.762	-0.001	19304879	1000.00	1010	80.00- 120.00	100.00
3.924	3.925	-0.001	29029847	1000.00	1020	130.38- 170.38	150.38
4.153	4.156	-0.003	17263791	1000.00	1010	69.43- 109.43	89.43
4.296	4.298	-0.002	18113875	1000.00	1010	73.83- 113.83	93.83
4.476	4.477	-0.001	40525197	1000.00	1040	189.92- 229.92	209.92
Average of Peak Amounts =					1.02e+03		

Data File: /chem/ecdl.a.i/021510.b/030f3001.d

Date: 15-FEB-2010 12:23

Client ID: AR166003

Sample Info: 1MAR100203-60 03

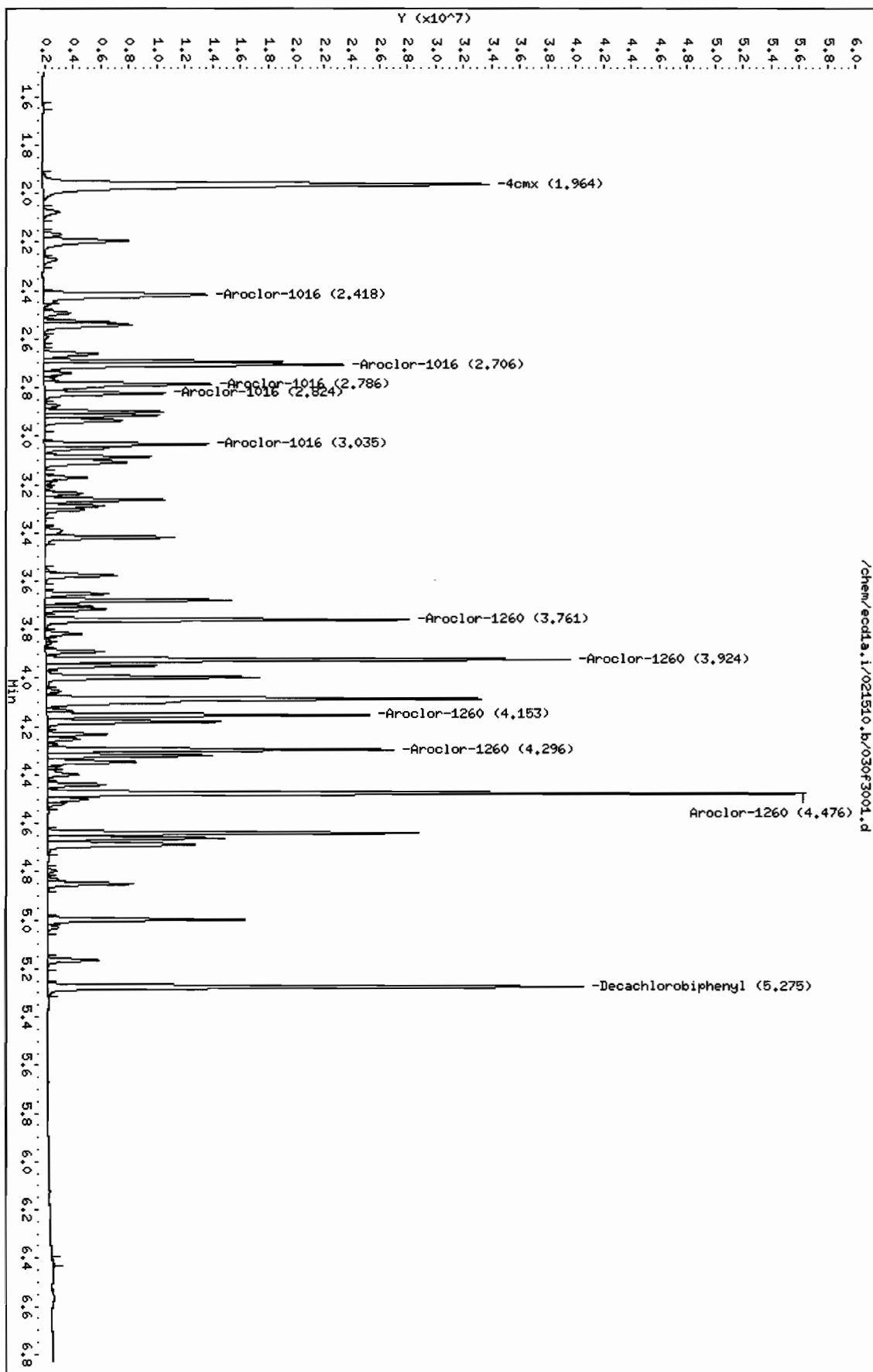
Page 1

Column phase: CLP1

Instrument: ecdl.a.i

Operator: YSI

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecdla.i/021510.b/030b3001.d
 Lab Smp Id: WAR100203-60 03 Client Smp ID: AR166003
 Inj Date : 15-FEB-2010 12:23
 Operator : YS1 Inst ID: ecdla.i
 Smp Info : |WAR100203-60 03
 Misc Info :
 Comment :
 Method : /chem/ecdla.i/021510.b/ECD1-B-8082-021110.m
 Meth Date : 15-Feb-2010 12:37 yip00818 Quant Type: ESTD
 Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
 Als bottle: 30 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1660.sub
 Target Version: 3.50 Sample Matrix: None
 Processing Host: hpclpl

AMOUNTS								
			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====		=====
\$ 11 4cmx					CAS #: 877-09-8			
2.295	2.294	0.001	26707123	100.000	93.1	80.00~	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.940	5.942	-0.002	19070356	100.000	88.7	80.00~	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.191	3.191	0.000	11261760	1000.00	906	80.00~	120.00	100.00 (M)
3.273	3.274	-0.001	7480284	1000.00	878	46.42~	86.42	66.42
3.337	3.337	0.000	4641141	1000.00	883	21.21~	61.21	41.21
3.564	3.565	-0.001	5876987	1000.00	873	32.19~	72.19	52.19
3.640	3.641	-0.001	5666390	1000.00	896	38.74~	78.74	58.74
Average of Peak Amounts =					887			

7 Aroclor-1260					CAS #: 11096-82-5			
4.331	4.331	0.000	12035728	1000.00	956	80.00~	120.00	100.00
4.456	4.456	0.000	14649789	1000.00	972	101.72~	141.72	121.72
4.721	4.721	0.000	11067113	1000.00	952	71.95~	111.95	91.95
4.895	4.896	-0.001	11417867	1000.00	949	74.87~	114.87	94.87
5.041	5.043	-0.002	25515258	1000.00	988	192.00~	232.00	212.00
Average of Peak Amounts =					964			

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/eod1a.i/021510.b/03063001.d

Date: 15-FEB-2010 12:23

Client ID: AR16003

Sample Info: IAR100203-60 03

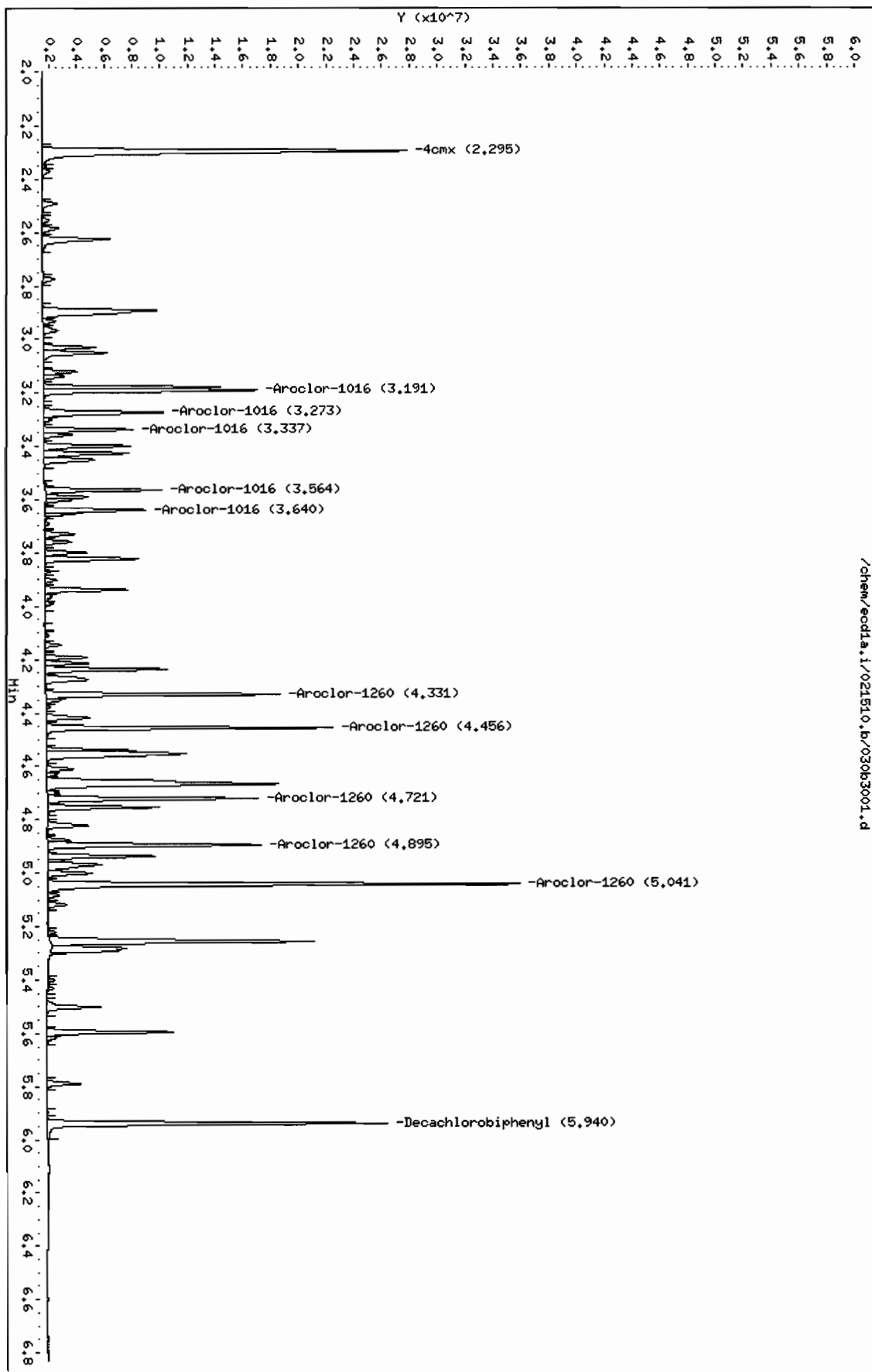
Page 1

Column phase: CLP2

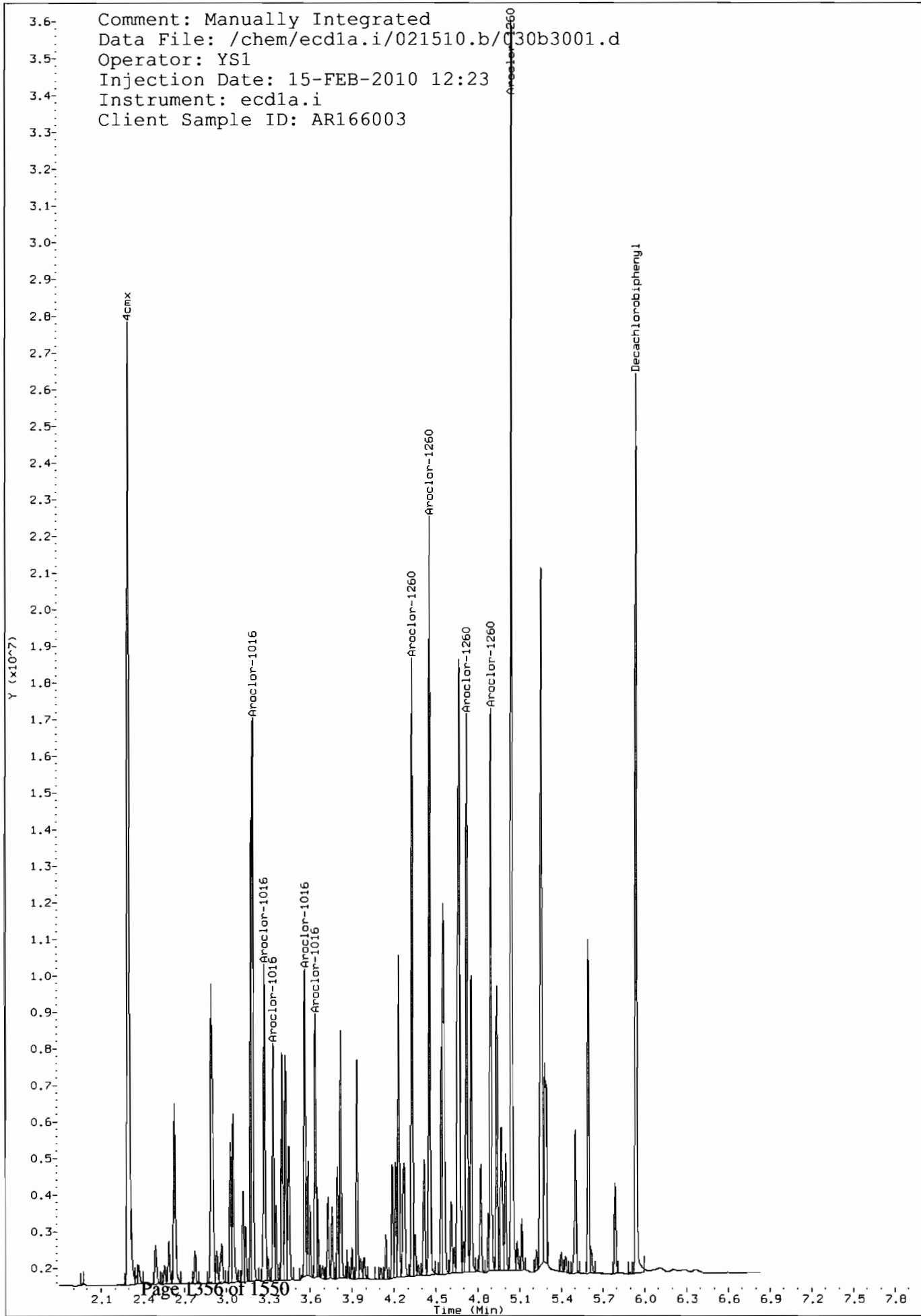
Instrument: eod1a.i

Operator: YSI

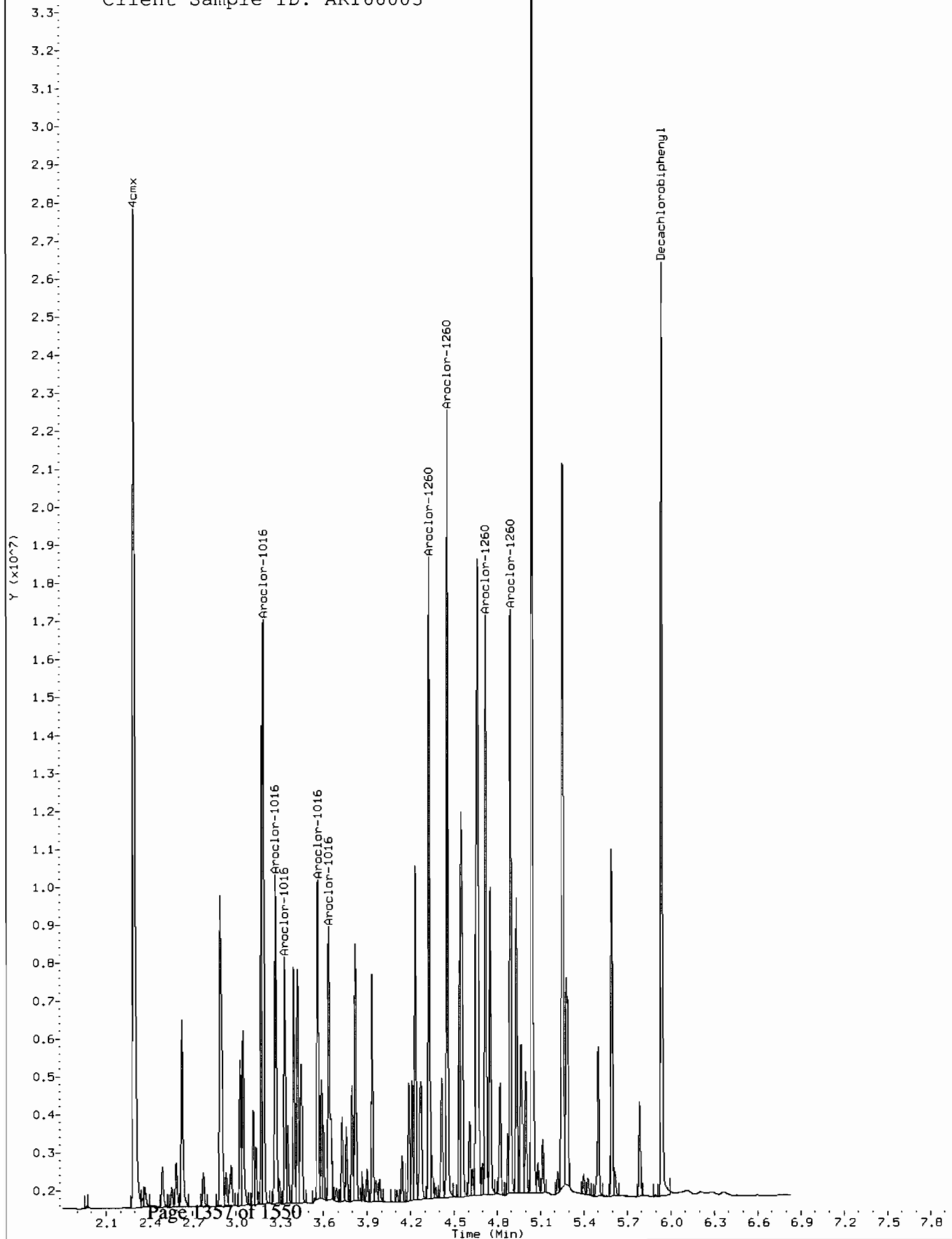
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/021510.b/C30b3001.d
Operator: YS1
Injection Date: 15-FEB-2010 12:23
Instrument: ecdl1a.i
Client Sample ID: AR166003



Comment: Before manual integration
Data File: /chem/ecdl1.i/021510.b/orig-030b3001.d
Operator: YSl
Injection Date: 15-FEB-2010 12:23
Instrument: ecd1a.i
Client Sample ID: AR166003



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021510.b/041f4101.d

Lab Smp Id: WAR100203-60 04

Client Smp ID: AR166004

Inj Date : 15-FEB-2010 14:21

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100203-60 04

Misc Info :

Comment :

Method : /chem/ecdl1a.i/021510.b/ECD1-F-8082-021110.m

Meth Date : 16-Feb-2010 07:07 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 41

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclp1

AMOUNTS

			CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.962	1.963	-0.001	43272008	100.000	99.0	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.274	5.276	-0.002	31736151	100.000	95.1	80.00- 120.00	100.00

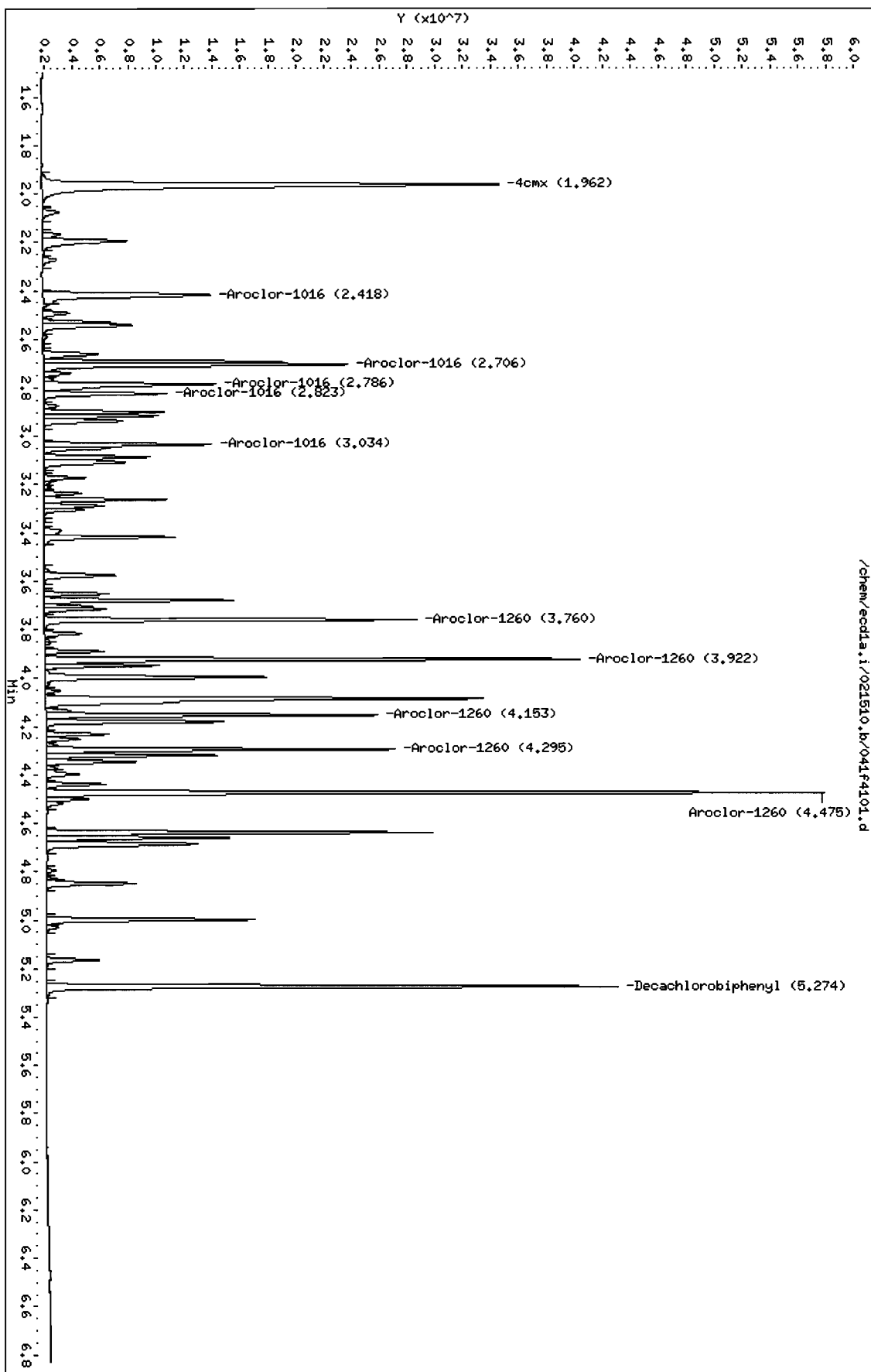
1 Aroclor-1016					CAS #: 12674-11-2		
2.418	2.418	0.000	14865774	1000.00	923	80.00- 120.00	100.00
2.706	2.706	0.000	19632209	1000.00	992	112.06- 152.06	132.06
2.786	2.787	-0.001	12211367	1000.00	938	62.14- 102.14	82.14
2.823	2.825	-0.002	7385692	1000.00	949	29.68- 69.68	49.68
3.034	3.036	-0.002	9477481	1000.00	946	43.75- 83.75	63.75
Average of Peak Amounts =					950		

7 Aroclor-1260					CAS #: 11096-82-5		
3.760	3.762	-0.002	19694334	1000.00	1030	80.00- 120.00	100.00
3.922	3.925	-0.003	29698146	1000.00	1050	130.80- 170.80	150.80
4.153	4.156	-0.003	17721037	1000.00	1040	69.98- 109.98	89.98
4.295	4.298	-0.003	18578842	1000.00	1040	74.34- 114.34	94.34
4.475	4.477	-0.002	41681036	1000.00	1070	191.64- 231.64	211.64
Average of Peak Amounts =					1.05e+03		

Data File: /chem/ecdl.a.i/021510.b/041f4101.d
Date: 15-FEB-2010 14:21
Client ID: AR166004
Sample Info: IMA100203-60 04
Column phase: CLP1

Instrument: ecdl.a.i
Operator: YSL
Column diameter: 0.25

Page 1



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdl1a.i/021510.b/041b4101.d
Lab Smp Id: WAR100203-60 04 Client Smp ID: AR166004
Inj Date : 15-FEB-2010 14:21
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |WAR100203-60 04
Misc Info :
Comment :
Method : /chem/ecdl1a.i/021510.b/ECD1-B-8082-021110.m
Meth Date : 16-Feb-2010 07:07 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
Als bottle: 4l Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpclp1

AMOUNTS							
			CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
2.294	2.294	0.000	27404877	100.000	95.5	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.940	5.942	-0.002	19976358	100.000	92.9	80.00- 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2		
3.190	3.191	-0.001	11722637	1000.00	943	80.00- 120.00	100.00(M)
3.273	3.274	-0.001	7645878	1000.00	897	45.22- 85.22	65.22
3.337	3.337	0.000	4728793	1000.00	900	20.34- 60.34	40.34
3.563	3.565	-0.002	5985892	1000.00	889	31.06- 71.06	51.06
3.639	3.641	-0.002	5662947	1000.00	895	28.31- 68.31	48.31
Average of Peak Amounts =					905		

7 Aroclor-1260					CAS #: 11096-82-5		
4.329	4.331	-0.002	12433672	1000.00	987	80.00- 120.00	100.00
4.454	4.456	-0.002	15148143	1000.00	1000	101.83- 141.83	121.83
4.720	4.721	-0.001	11477434	1000.00	988	72.31- 112.31	92.31
4.894	4.896	-0.002	11936909	1000.00	992	76.00- 116.00	96.00
5.042	5.043	-0.001	26535062	1000.00	1030	193.41- 233.41	213.41
Average of Peak Amounts =					1e+03		

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecdl1.i/021510.b/041b4101.d

Date: 15-FEB-2010 14:21

Client ID: AR166004

Sample Info: 1MAR100203-60 04

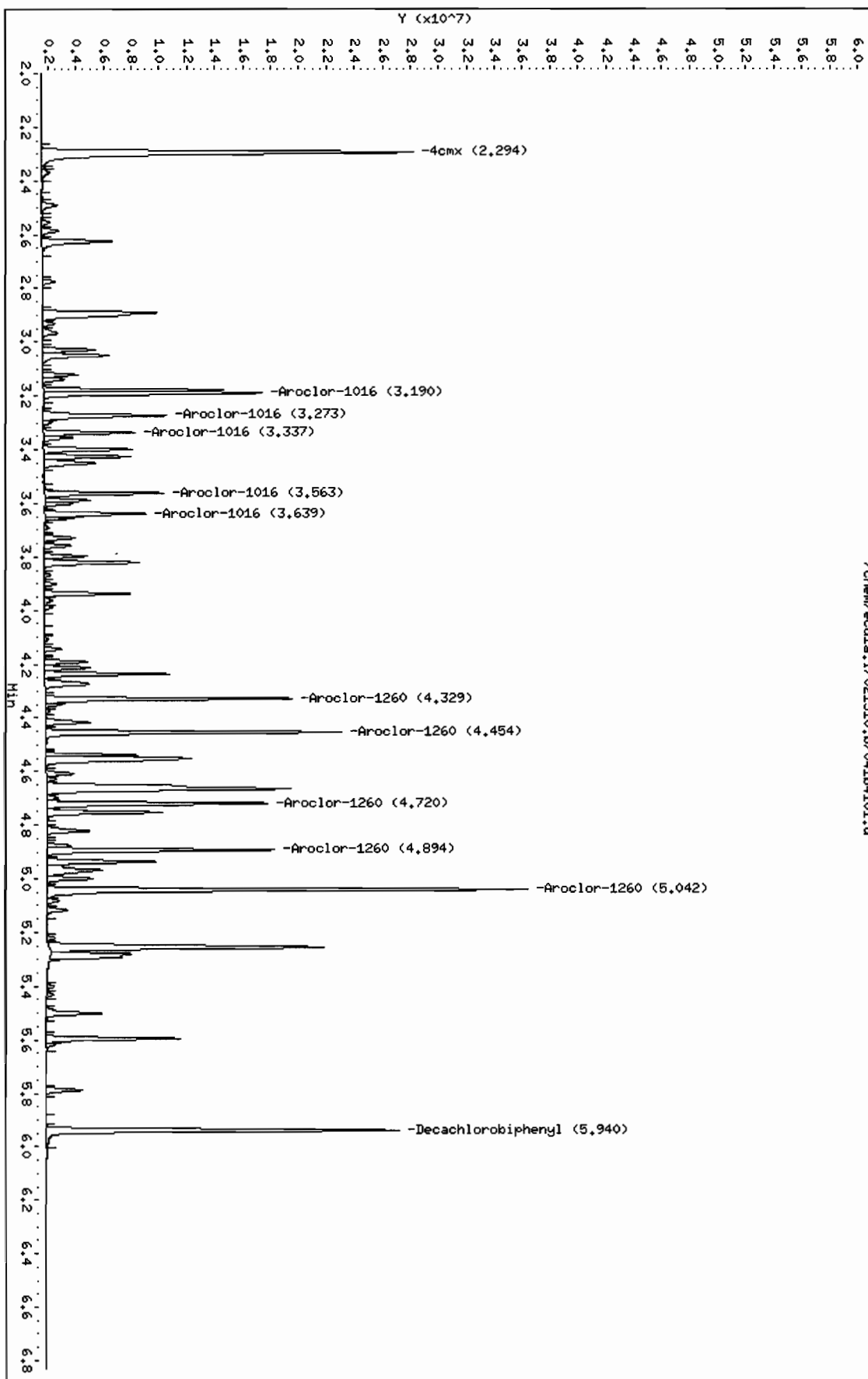
Page 1

Column phase: CLP2

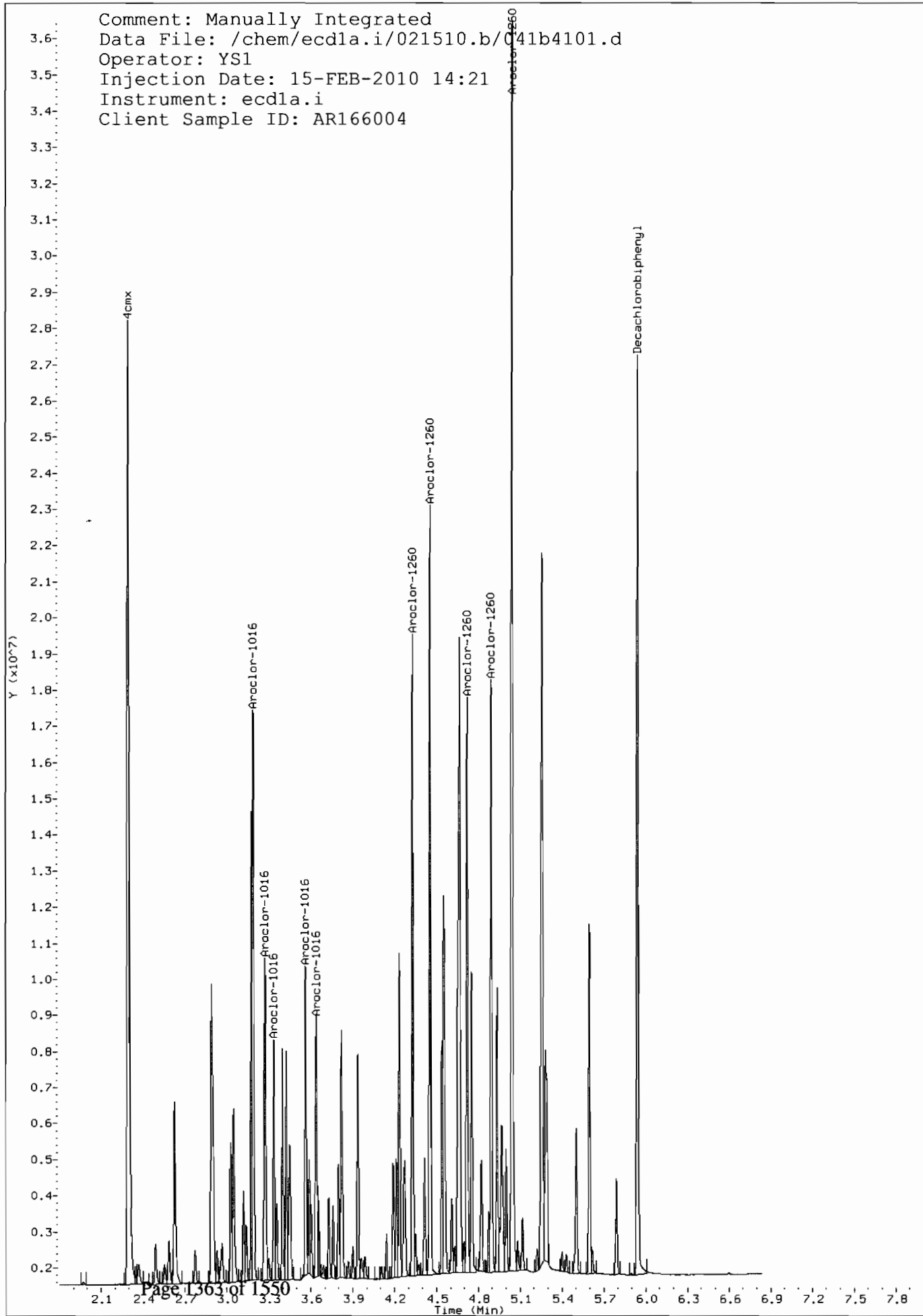
Instrument: ecdl1.i

Operator: YSI

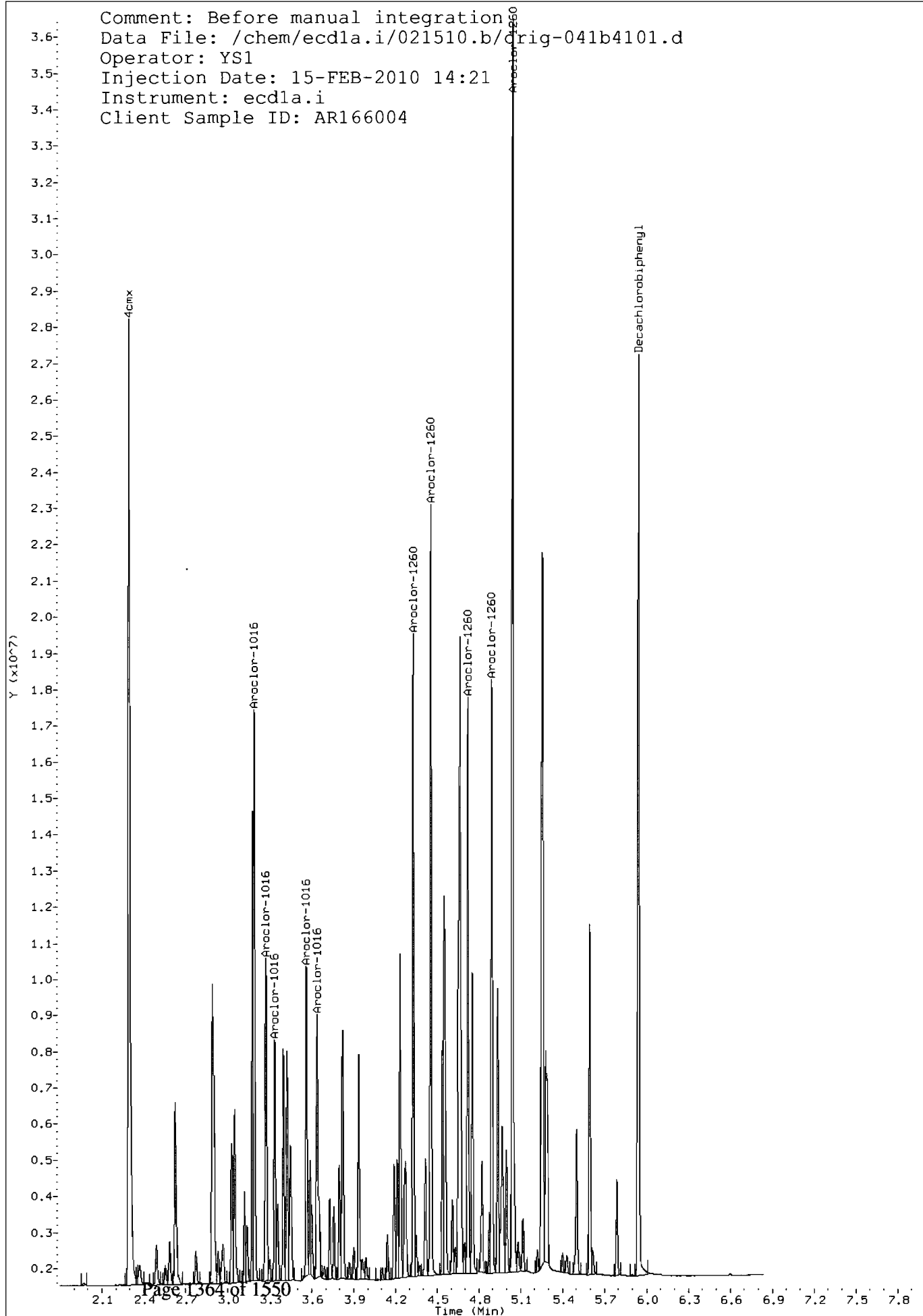
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/021510.b/C41b4101.d
Operator: YS1
Injection Date: 15-FEB-2010 14:21
Instrument: ecdl1a.i
Client Sample ID: AR166004



Comment: Before manual integration
Data File: /chem/ecdl1.i/021510.b/Orig-041b4101.d
Operator: YS1
Injection Date: 15-FEB-2010 14:21
Instrument: ecdl1.i
Client Sample ID: AR166004



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdl1a.i/021710.b/002f0201.d
Lab Smp Id: WAR100203-60 01 Client Smp ID: AR166001
Inj Date : 17-FEB-2010 06:47
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |WAR100203-60 01
Misc Info :
Comment :
Method : /chem/ecdl1a.i/021710.b/ECD1-F-8082-021110.m
Meth Date : 17-Feb-2010 10:06 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpclp1

AMOUNTS								
			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE		RATIO

\$ 11 4cmx					CAS #: 877-09-8			
1.961	1.961	0.000	41342574	100.000	94.6	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.275	5.275	0.000	30100170	100.000	90.2	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
2.416	2.416	0.000	13761794	1000.00	854	80.00-	120.00	100.00
2.705	2.705	0.000	18449879	1000.00	933	114.07-	154.07	134.07
2.785	2.785	0.000	11587574	1000.00	890	64.20-	104.20	84.20
2.823	2.823	0.000	7003378	1000.00	900	30.89-	70.89	50.89
3.034	3.034	0.000	9050992	1000.00	903	45.77-	85.77	65.77
Average of Peak Amounts =					896			

7 Aroclor-1260					CAS #: 11096-82-5			
3.760	3.760	0.000	18784363	1000.00	987	80.00-	120.00	100.00
3.923	3.923	0.000	28246821	1000.00	996	130.37-	170.37	150.37
4.153	4.153	0.000	16894049	1000.00	991	69.94-	109.94	89.94
4.296	4.296	0.000	17753072	1000.00	992	74.51-	114.51	94.51
4.476	4.476	0.000	39870635	1000.00	1030	192.25-	232.25	212.25
Average of Peak Amounts =					999			

Data File: /chem/eod1a.i/021710.b/002f0201.d

Date: 17-FEB-2010 06:47

Client ID: AR166001

Sample Info: 114R100203-60 01

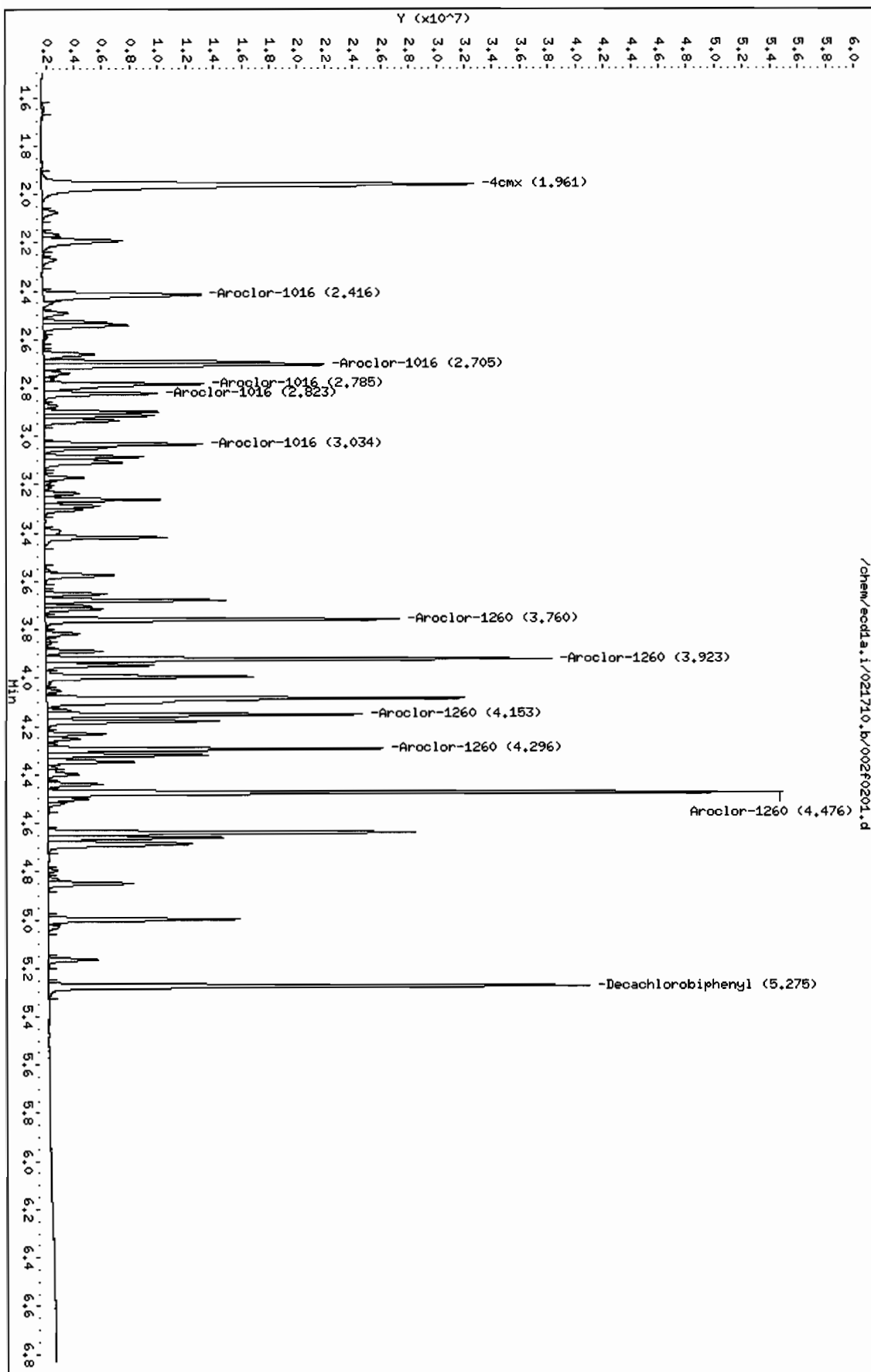
Page 1

Column phase: CLP1

Instrument: eod1a.i

Operator: YSL

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021710.b/002b0201.d

Lab Smp Id: WAR100203-60 01

Client Smp ID: AR166001

Inj Date : 17-FEB-2010 06:47

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100203-60 01

Misc Info :

Comment :

Method : /chem/ecdl1a.i/021710.b/ECD1-B-8082-021110.m

Meth Date : 17-Feb-2010 10:07 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 2

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclp1

AMOUNTS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	CAL-AMT (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====
						CAS #: 877-09-8	
5 11 4cmx							
2.294	2.294	0.000	26851143	100.000	93.6	80.00- 120.00	100.00

						CAS #: 2051-24-3	
5 12 Decachlorobiphenyl							
5.941	5.941	0.000	18585797	100.000	86.4	80.00- 120.00	100.00

						CAS #: 12674-11-2	
1 Aroclor-1016							
3.190	3.190	0.000	11495699	1000.00	925	80.00- 120.00	100.00 (M)
3.273	3.273	0.000	7454792	1000.00	875	44.85- 84.85	64.85
3.336	3.336	0.000	4598832	1000.00	875	20.00- 60.00	40.00
3.564	3.564	0.000	5859539	1000.00	870	30.97- 70.97	50.97
3.639	3.639	0.000	5505058	1000.00	870	37.29- 77.29	57.29
Average of Peak Amounts =					883		

						CAS #: 11096-82-5	
7 Aroclor-1260							
4.330	4.330	0.000	12155143	1000.00	965	80.00- 120.00	100.00
4.455	4.455	0.000	14805039	1000.00	983	101.80- 141.80	121.80
4.721	4.721	0.000	11230893	1000.00	967	72.40- 112.40	92.40
4.895	4.895	0.000	11619539	1000.00	966	75.59- 115.59	95.59
5.041	5.041	0.000	25751744	1000.00	997	191.86- 231.86	211.86
Average of Peak Amounts =					976		

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/eod1a.i/021710.b/002b0201.d

Date: 17-FEB-2010 06:47

Client ID: AR166001

Sample Info: 11AR100203-60 01

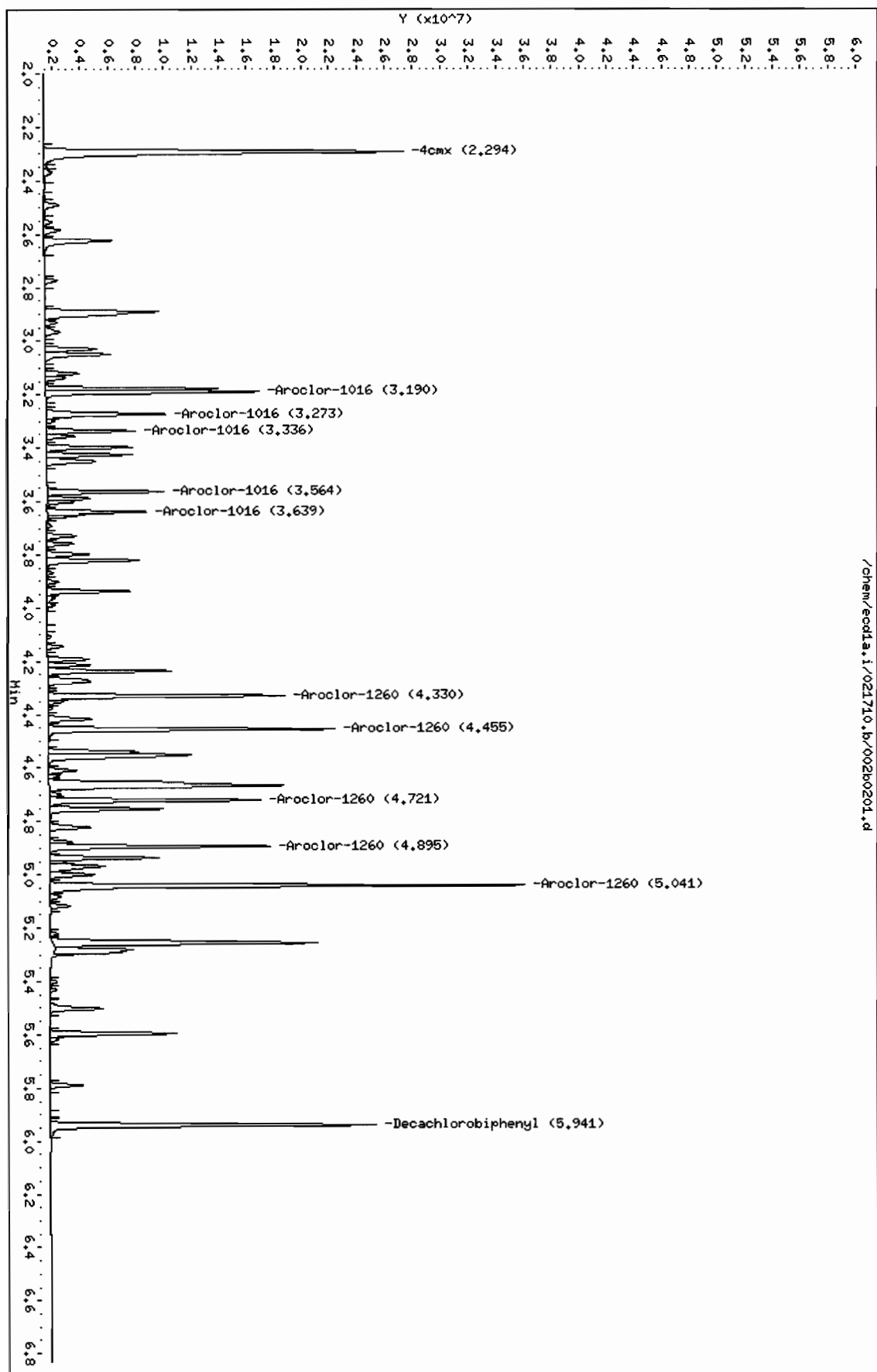
Page 1

Column phase: CLP2

Instrument: eod1a.i

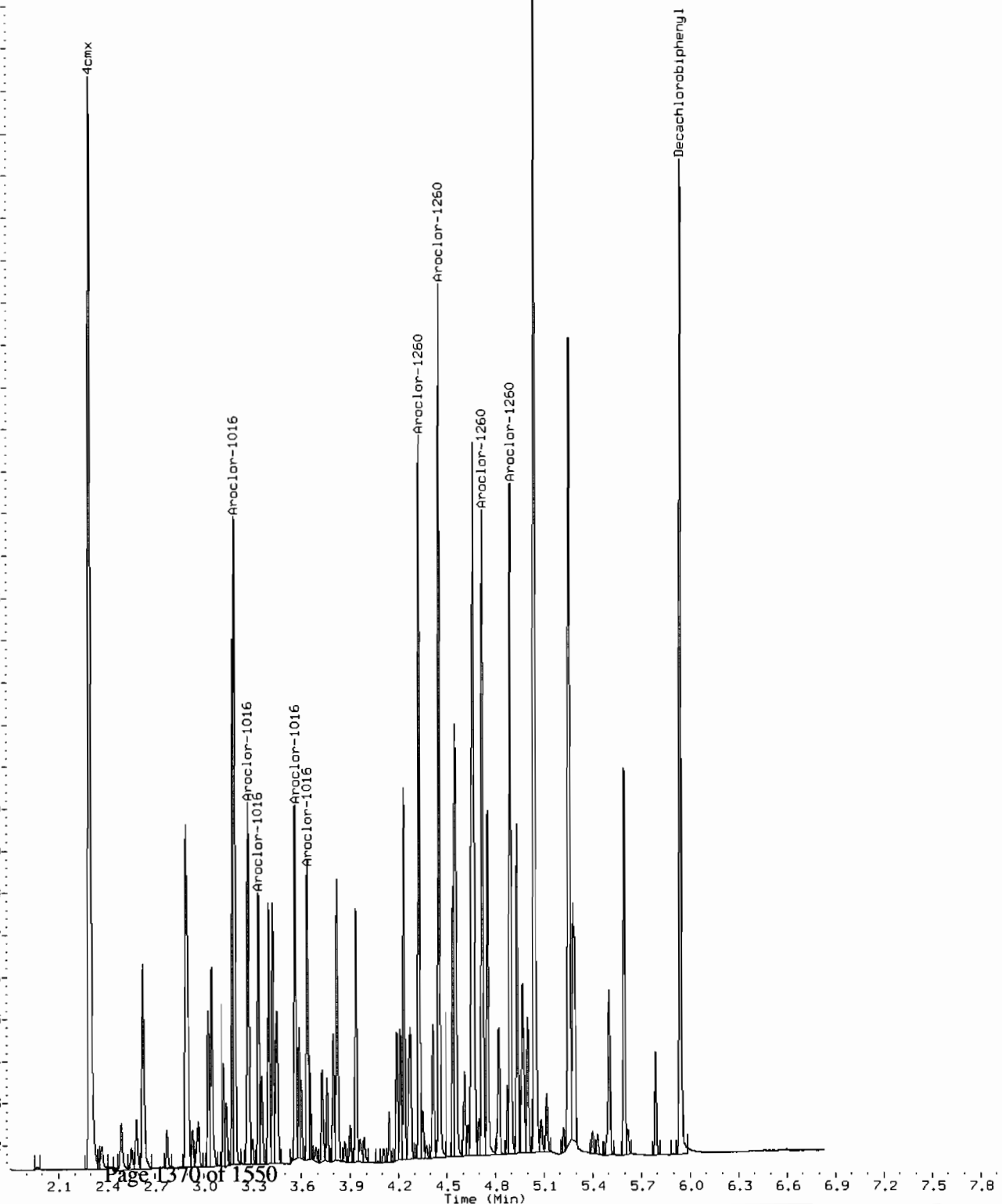
Operator: YSI

Column diameter: 0.25

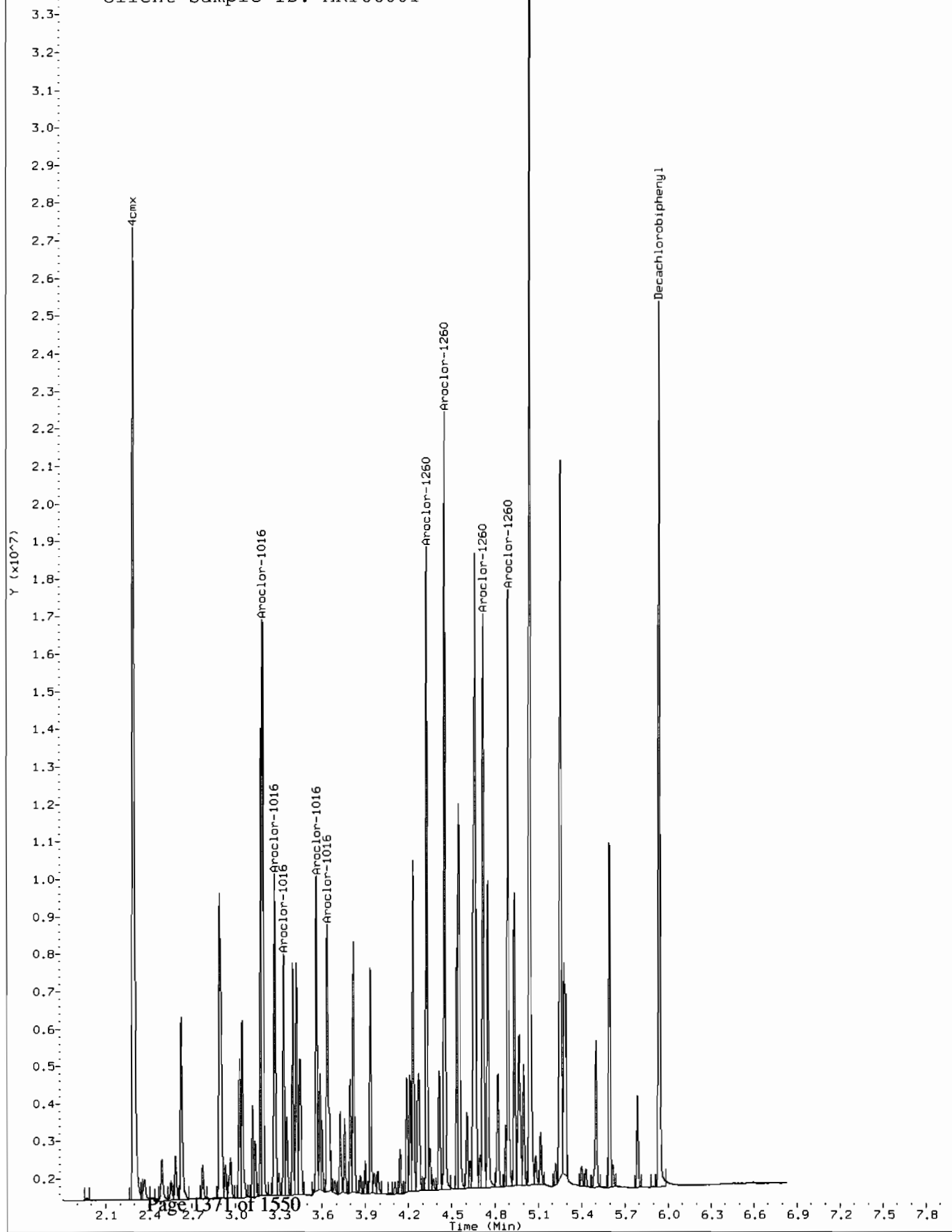


Comment: Manually Integrated
Data File: /chem/ecdl1.i/021710.b/002b0201.d
Operator: YS1
Injection Date: 17-FEB-2010 06:47
Instrument: ecdl1.i
Client Sample ID: AR166001

Y (x10⁻⁷)



Comment: Before manual integration
Data File: /chem/ecdl1a.i/021710.b/Orig-002b0201.d
Operator: YS1
Injection Date: 17-FEB-2010 06:47
Instrument: ecd1a.i
Client Sample ID: AR166001



Data File: /chem/ecdla.i/021710.b/003f0301.d
Report Date: 17-Feb-2010 10:06

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021710.b/003f0301.d

Lab Smp Id: WAR091216-54

Client Smp ID: AR125401

Inj Date : 17-FEB-2010 06:57

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR091216-54

Misc Info :

Comment :

Method : /chem/ecdla.i/021710.b/ECD1-F-8082-021110.m

Meth Date : 17-Feb-2010 10:06 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 3

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1254.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclp1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
6 Aroclor-1254					CAS #: 11097-69-1	
3.264	3.264	0.000	14713301 1000.00	932	80.00- 120.00	100.00
3.419	3.419	0.000	19921674 1000.00	933	115.40- 155.40	135.40
3.653	3.653	0.000	26078240 1000.00	957	157.24- 197.24	177.24
3.816	3.816	0.000	19722221 1000.00	956	114.04- 154.04	134.04
3.925	3.925	0.000	19057332 1000.00	973	109.52- 149.52	129.52
Average of Peak Amounts =				950		

Data File: /chem/ecdl.a.i/021710.b/003f0301.d

Date : 17-FEB-2010 06:57

Client ID: AR125401

Sample Info: 14A091216-54

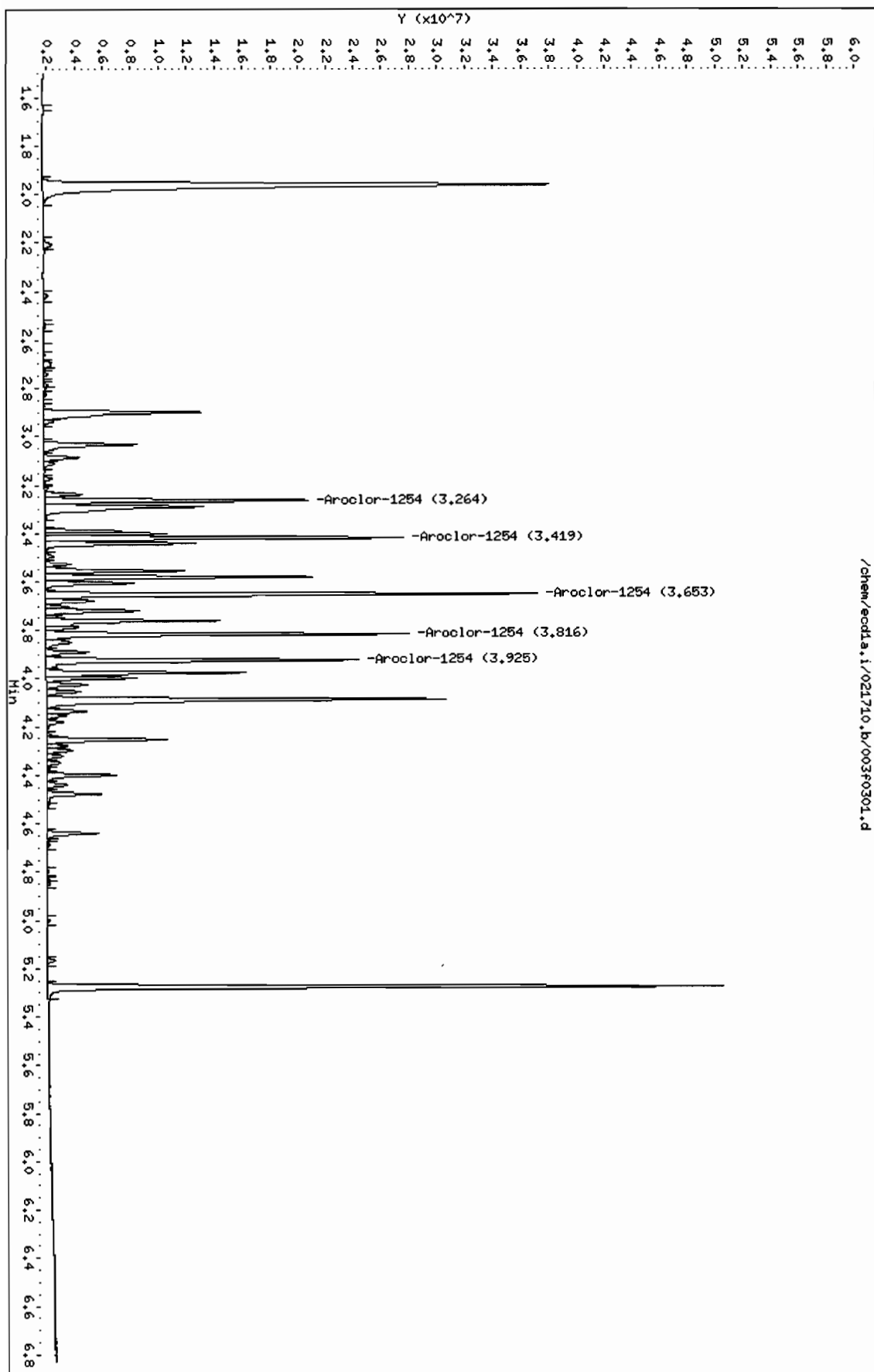
Column phase: CLP1

Instrument: ecdl.a.i

Operator: YSL

Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021710.b/003b0301.d

Lab Smp Id: WAR091216-54

Client Smp ID: AR125401

Inj Date : 17-FEB-2010 06:57

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR091216-54

Misc Info :

Comment :

Method : /chem/ecdla.i/021710.b/ECD1-B-8082-021110.m

Meth Date : 17-Feb-2010 10:06 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 3

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1254.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclp1

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

6 Aroclor-1254

CAS #: 11097-69-1

3.399	3.399	0.000	6110246	1000.00	922 80.00- 120.00	100.00
3.821	3.821	0.000	11092865	1000.00	948 161.55- 201.55	181.55
3.938	3.938	0.000	12147938	1000.00	942 178.81- 218.81	198.81
4.214	4.214	0.000	16935159	1000.00	958 257.16- 297.16	277.16
4.351	4.351	0.000	12160922	1000.00	922 179.03- 219.03	199.03

Average of Peak Amounts =

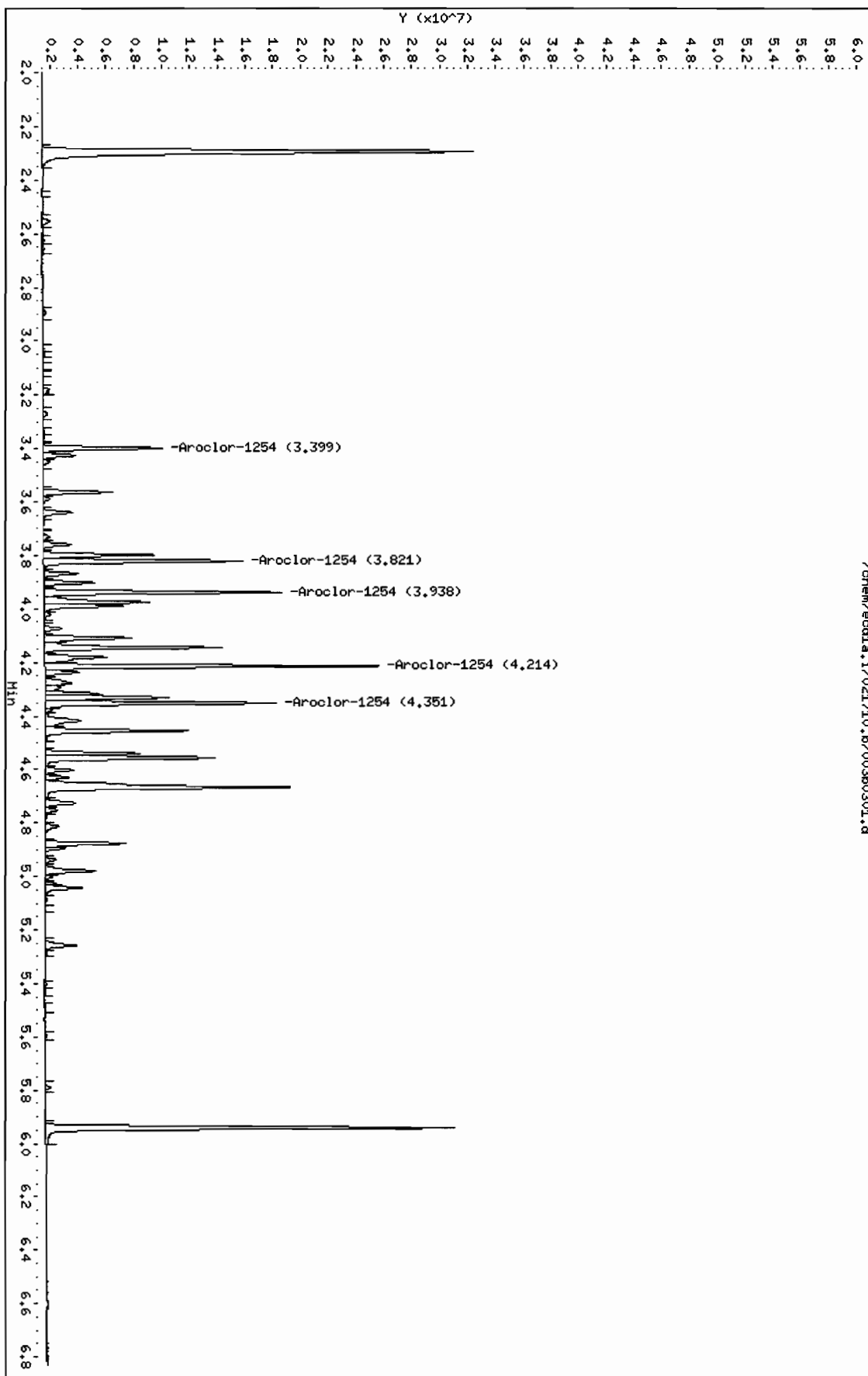
938

Data File: /chem/ecda.i/021710.b/003b0301.d
Date : 17-FEB-2010 06:57
Client ID: AR125401
Sample Info: 14AR091216-54

Column phase: CLP2

Instrument: ecda.i
Operator: YSL
Column diameter: 0.25

/chem/ecda.i/021710.b/003b0301.d



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021710.b/004f0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 17-FEB-2010 07:08

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR091217-42

Misc Info :

Comment :

Method : /chem/ecdl1a.i/021710.b/ECD1-F-8082-021110.m

Meth Date : 17-Feb-2010 10:06 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 4

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1242.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclp1

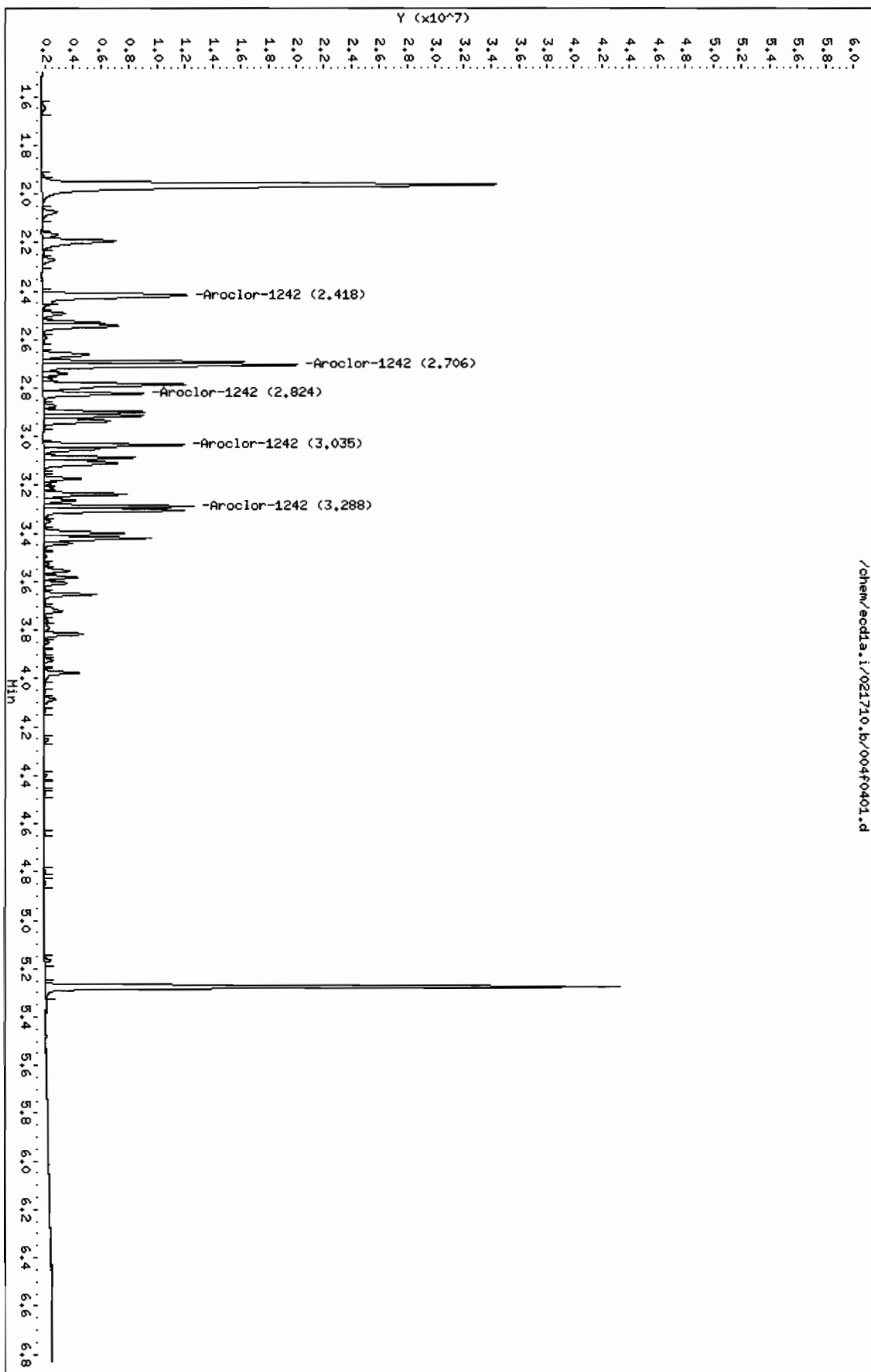
AMOUNTS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	CAL-AMT (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
4	Aroclor-1242					CAS #: 53469-21-9	
2.418	2.418	0.000	12889682	1000.00	906	80.00- 120.00	100.00
2.706	2.706	0.000	16286915	1000.00	944	106.36- 146.36	126.36
2.824	2.824	0.000	6198713	1000.00	923	28.09- 68.09	48.09
3.035	3.035	0.000	8169032	1000.00	921	43.38- 83.38	63.38
3.288	3.288	0.000	7859556	1000.00	914	40.98- 80.98	60.98
Average of Peak Amounts =					922		

Data File: /chem/ecdl1.i/021710.b/004f0401.d
Date: 17-FEB-2010 07:08
Client ID: AR124201
Sample Info: 11AR091217-42
Column phase: CLP1

Instrument: ecdl1.i
Operator: YSI
Column diameter: 0.25

/chem/ecdl1.i/021710.b/004f0401.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021710.b/004b0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 17-FEB-2010 07:08

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR091217-42

Misc Info :

Comment :

Method : /chem/ecdl1a.i/021710.b/ECD1-B-8082-021110.m

Meth Date : 17-Feb-2010 10:06 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 4

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1242.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclp1

AMOUNTS

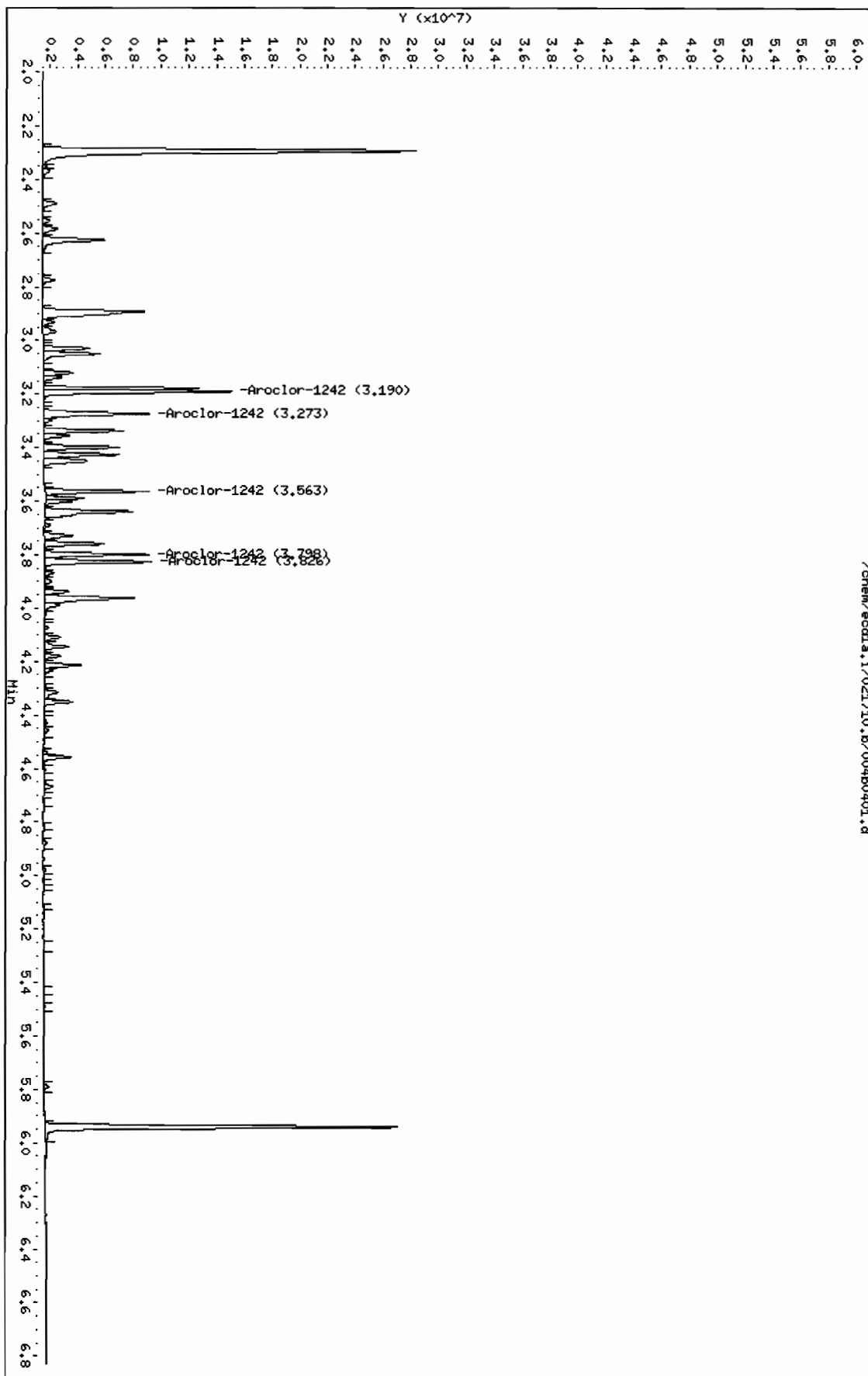
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
4	Aroclor-1242				CAS #: 53469-21-9	
3.190	3.190	0.000	10164497 1000.00	946	80.00- 120.00	100.00
3.273	3.273	0.000	6609519 1000.00	883	45.03- 85.03	65.03
3.563	3.563	0.000	5258310 1000.00	886	31.73- 71.73	51.73
3.798	3.798	0.000	5391236 1000.00	905	33.04- 73.04	53.04
3.826	3.826	0.000	6045455 1000.00	907	39.48- 79.48	59.48
Average of Peak Amounts =				905		

Data File: /chem/ecda.i/021710.b/004b0401.d
Date : 17-FEB-2010 07:08
Client ID: AR124201
Sample Info: 146R091217-42

Column phase: CLP2

Instrument: ecda.i
Operator: YS1
Column diameter: 0.25

/chem/ecda.i/021710.b/004b0401.d



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd1a.i/021710.b/005f0501.d
Lab Smp Id: WAR091217-48 Client Smp ID: AR124801
Inj Date : 17-FEB-2010 07:18
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |WAR091217-48
Misc Info :
Comment :
Method : /chem/ecd1a.i/021710.b/ECD1-F-8082-021110.m
Meth Date : 17-Feb-2010 10:07 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpclpl

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
5 Aroclor-1248					CAS #: 12672-29-6	
3.087	3.087	0.000	8559646 1000.00	906	80.00- 120.00	100.00
3.238	3.238	0.000	7317394 1000.00	885	65.49- 105.49	85.49
3.289	3.289	0.000	14514845 1000.00	911	149.57- 189.57	169.57
3.421	3.421	0.000	11496428 1000.00	879	114.31- 154.31	134.31
3.654	3.654	0.000	7301188 1000.00	828	65.30- 105.30	85.30
Average of Peak Amounts =				882		

Data File: /chem/ecdl.a.i/021710.b/005f0501.d

Date: 17-FEB-2010 07:18

Client ID: AR124801

Sample Info: 1MAR091217-48

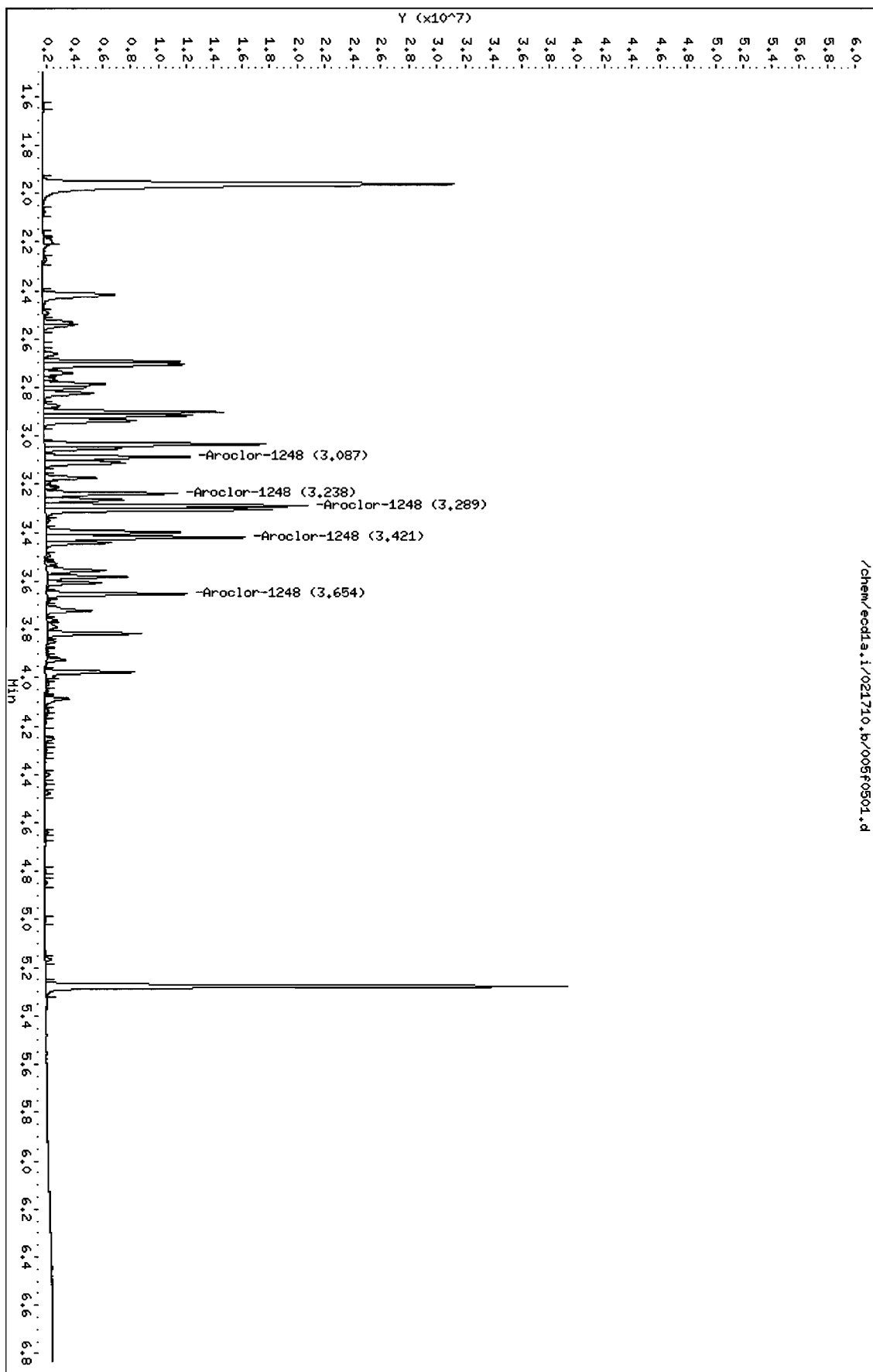
Column phase: CLP1

Instrument: ecdl.a.i

Operator: YSI

Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021710.b/005b0501.d

Lab Smp Id: WAR091217-48

Client Smp ID: AR124801

Inj Date : 17-FEB-2010 07:18

Operator : YSl

Inst ID: ecdla.i

Smp Info : |WAR091217-48

Misc Info :

Comment :

Method : /chem/ecdla.i/021710.b/ECD1-B-8082-021110.m

Meth Date : 17-Feb-2010 10:06 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 5

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1248.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
5 Aroclor-1248					CAS #: 12672-29-6	
3.399	3.399	0.000	6778416 1000.00	884	80.00- 120.00	100.00
3.565	3.565	0.000	8443206 1000.00	893	104.56- 144.56	124.56
3.798	3.798	0.000	9510610 1000.00	885	120.31- 160.31	140.31
3.826	3.826	0.000	10741992 1000.00	894	138.47- 178.47	158.47
3.963	3.963	0.000	10200742 1000.00	882	130.49- 170.49	150.49
Average of Peak Amounts =				888		

Data File: /chem/ecdda.i/021710.b/005b0501.d

Date: 17-FEB-2010 07:18

Client ID: AR124801

Sample Info: 1MAR091217-48

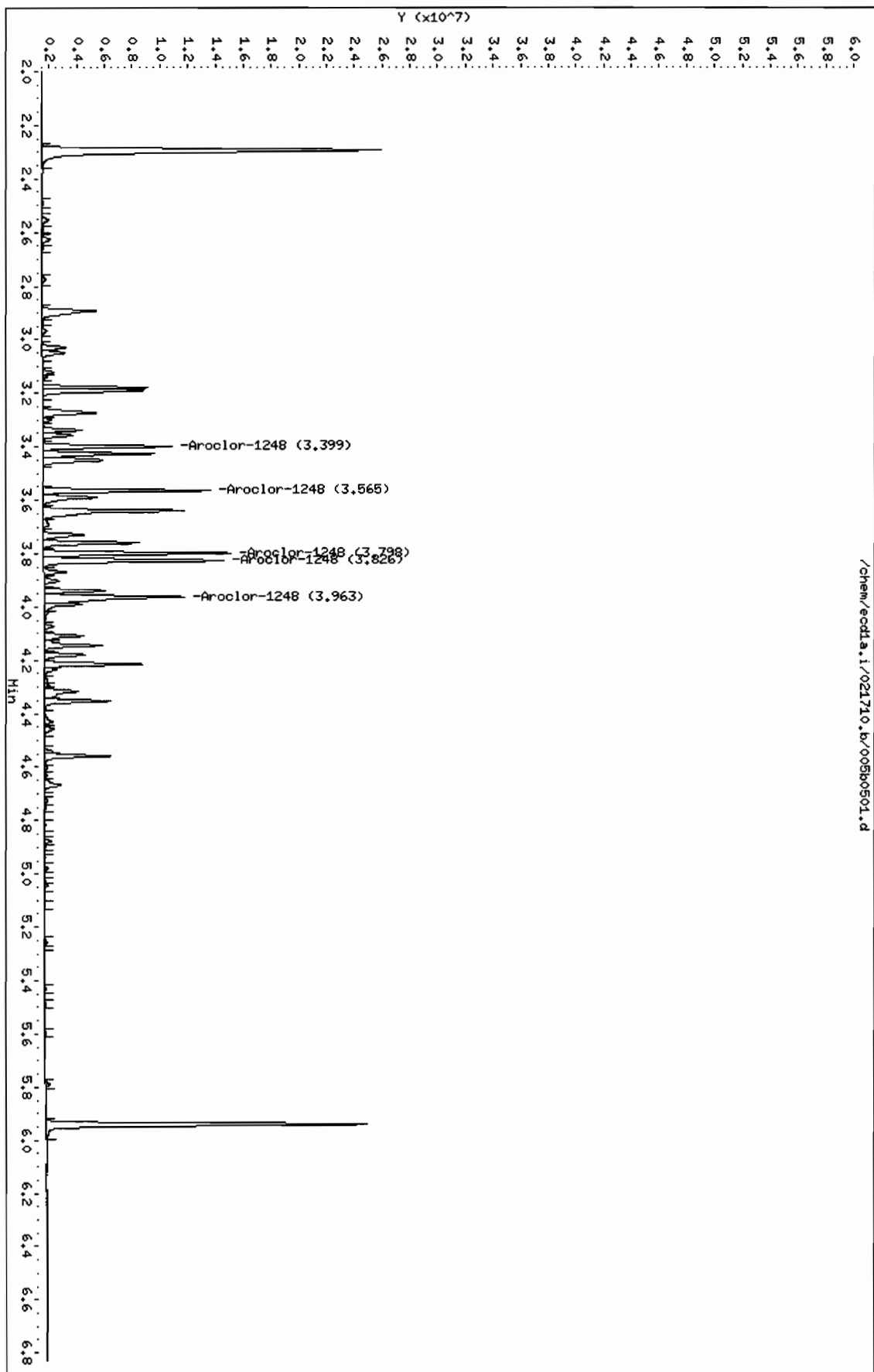
Page 1

Column phase: CLP2

Instrument: ecdda.i

Operator: YSL

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021710.b/006f0601.d

Lab Smp Id: WAR100107-68

Client Smp ID: AR126801

Inj Date : 17-FEB-2010 07:29

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100107-68

Misc Info :

Comment :

Method : /chem/ecdla.i/021710.b/ECD1-F-8082-021110.m

Meth Date : 17-Feb-2010 10:07 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 6

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1268.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclp1

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

9 Aroclor-1268

CAS #: 11100-14-4

4.661	4.661	0.000	48611014 1000.00	926	80.00- 120.00	100.00
4.684	4.684	0.000	45849517 1000.00	953	74.32- 114.32	94.32
4.797	4.797	0.000	36230045 1000.00	978	54.53- 94.53	74.53
5.000	5.000	0.000	17812299 1000.00	1090	16.64- 56.64	36.64
5.166	5.166	0.000	113962524 1000.00	1050	214.44- 254.44	234.44

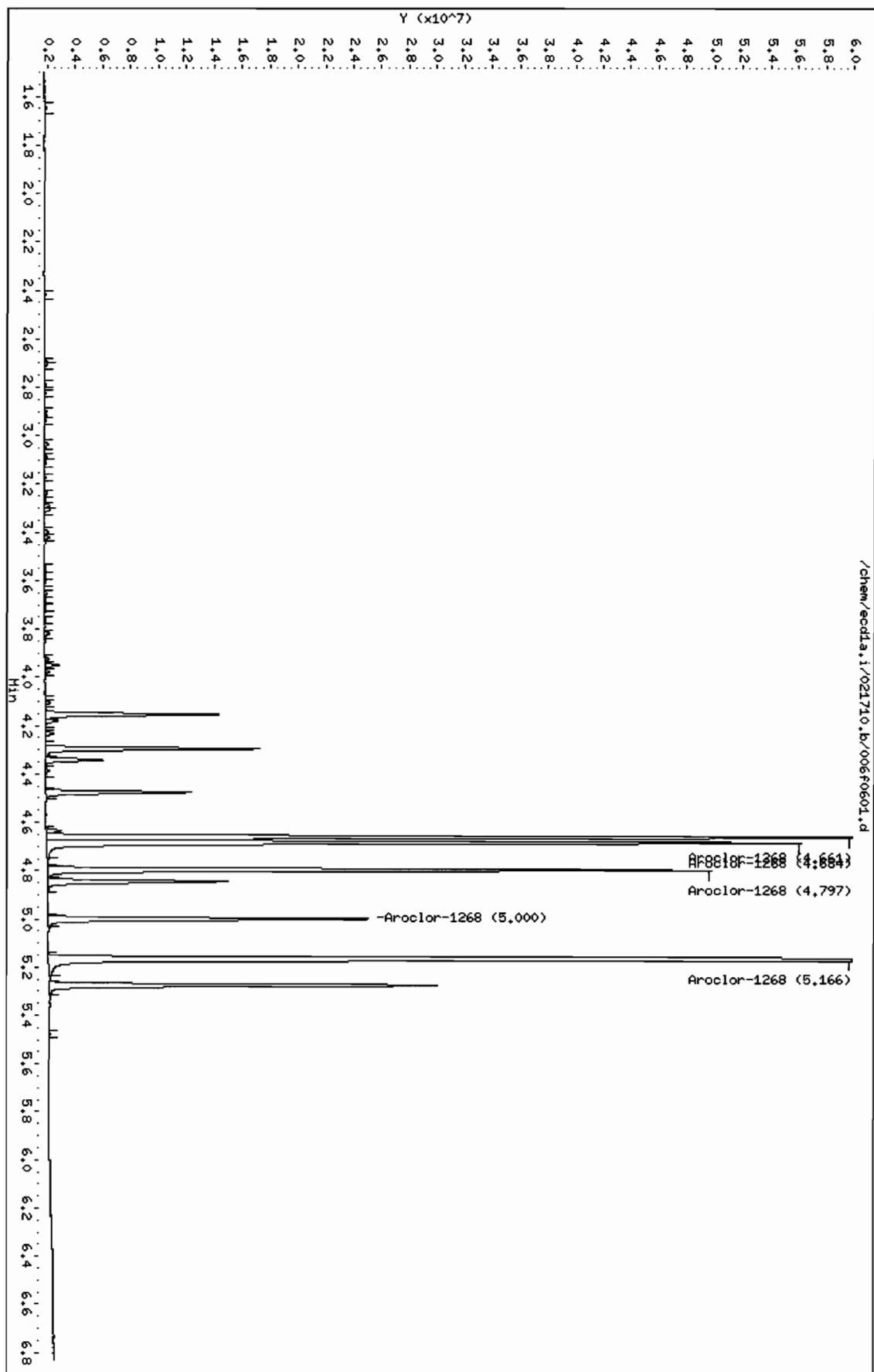
Average of Peak Amounts =

1e+03

Data File: /chem/ecda.i/021710.b/006f0601.d
Date: 17-FEB-2010 07:29
Client ID: AR126801
Sample Info: 140R100107-68
Column phase: CLP1

Instrument: ecda.i
Operator: YSL
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021710.b/006b0601.d

Lab Smp Id: WAR100107-68

Client Smp ID: AR126801

Inj Date : 17-FEB-2010 07:29

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100107-68

Misc Info :

Comment :

Method : /chem/ecdl1a.i/021710.b/ECD1-B-8082-021110.m

Meth Date : 17-Feb-2010 10:07 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 6

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1268.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclp1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
----	--------	--------	-----------------------------	-------------------	--------------	-------

9 Aroclor-1268

CAS #: 11100-14-4

5.254	5.254	0.000	30633272 1000.00	845	80.00- 120.00	100.00
5.282	5.282	0.000	29537964 1000.00	880	76.42- 116.42	96.42
5.431	5.431	0.000	22926201 1000.00	882	54.84- 94.84	74.84
5.596	5.596	0.000	11184662 1000.00	986	16.51- 56.51	36.51
5.790	5.790	0.000	70471400 1000.00	1050	210.05- 250.05	230.05

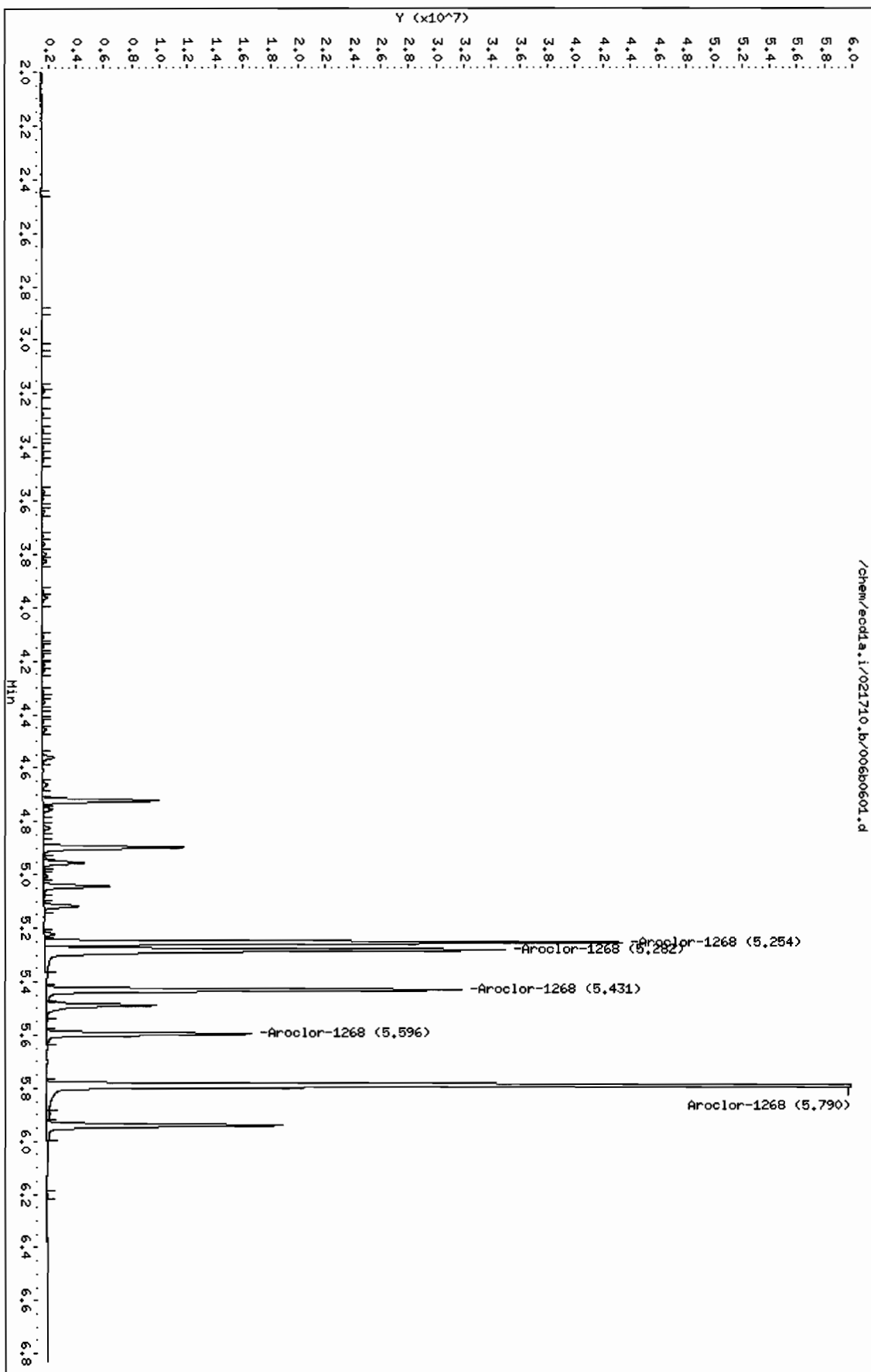
Average of Peak Amounts =

929

Data File: /chem/ecdl1.i/021710.b/006b0601.d
Date: 17-FEB-2010 07:29
Client ID: AR126801
Sample Info: 1MAR100107-68
Column phase: CLP2

Instrument: ecdl1.i
Operator: YSI
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021710.b/007f0701.d

Lab Smp Id: WAR100104-32

Client Smp ID: AR123201

Inj Date : 17-FEB-2010 07:39

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100104-32

Misc Info :

Comment :

Method : /chem/ecdl1a.i/021710.b/ECD1-F-8082-021110.m

Meth Date : 17-Feb-2010 10:07 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d

Als bottle: 7

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1232.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

3 Aroclor-1232			CAS #: 11141-16-5			
2.417	2.417	0.000	6603846 1000.00	964	80.00- 120.00	100.00
2.705	2.705	0.000	8680536 1000.00	1030	111.45- 151.45	131.45
2.786	2.786	0.000	5555701 1000.00	987	64.13- 104.13	84.13
3.035	3.035	0.000	4139028 1000.00	1040	42.68- 82.68	62.68
3.289	3.289	0.000	3734707 1000.00	968	36.55- 76.55	56.55

Average of Peak Amounts = 998

Data File: /chem/ecdl1.1/021710.b/007f0701.d

Date: 17-FEB-2010 07:39

Client ID: AR123201

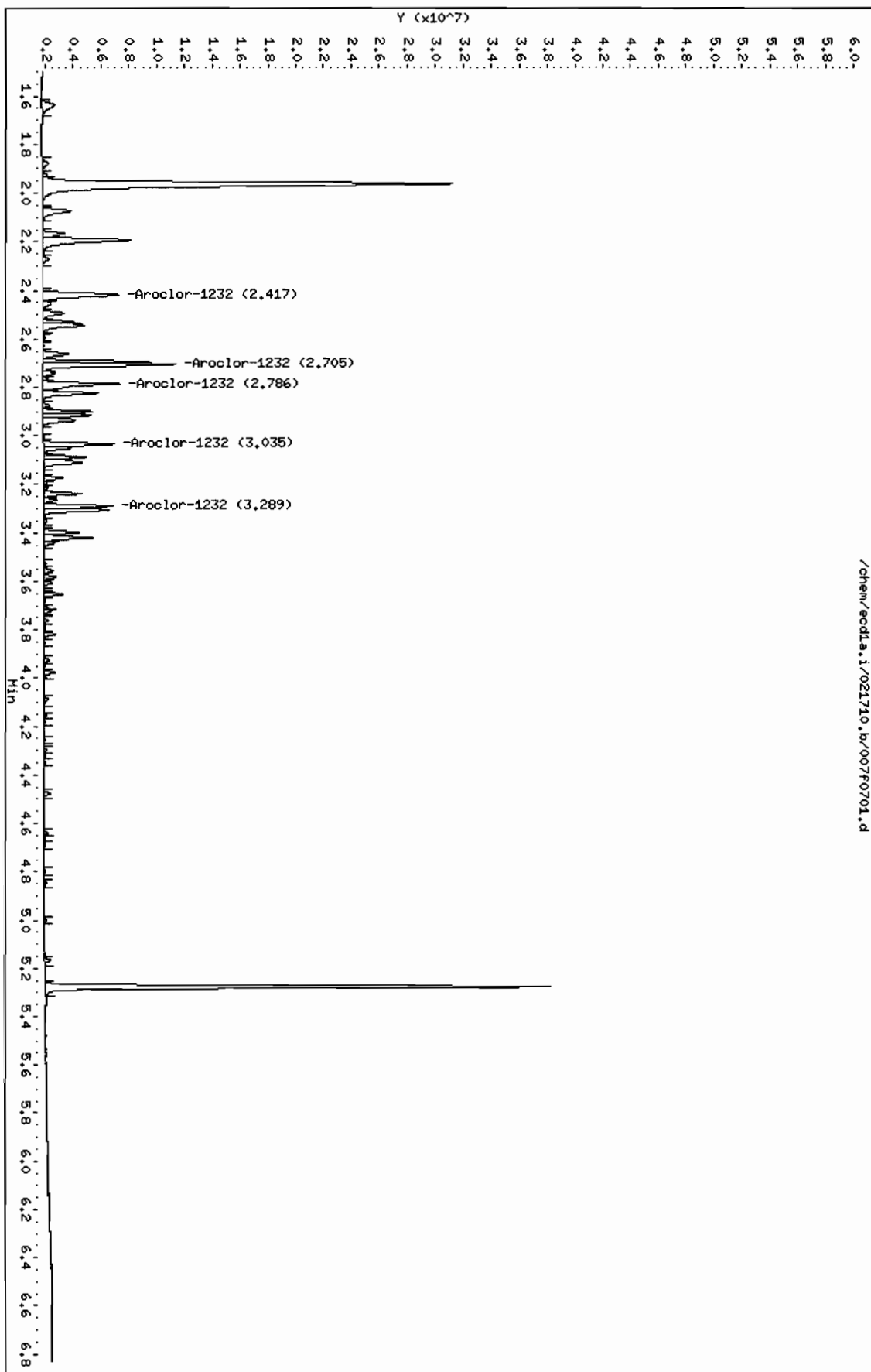
Sample Info: IMA100104-32

Column phase: CLP1

Instrument: ecdl1.1

Operator: YS1

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021710.b/007b0701.d

Lab Smp Id: WAR100104-32

Client Smp ID: AR123201

Inj Date : 17-FEB-2010 07:39

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100104-32

Misc Info :

Comment :

Method : /chem/ecdla.i/021710.b/ECD1-B-8082-021110.m

Meth Date : 17-Feb-2010 10:07 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 7

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1232.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
----	--------	--------	-----------------------------	-------------------	--------------	-------

3 Aroclor-1232

CAS #: 11141-16-5

2.892	2.892	0.000	4837503 1000.00	821	80.00- 120.00	100.00
3.190	3.190	0.000	5451671 1000.00	876	92.70- 132.70	112.70
3.274	3.274	0.000	3637272 1000.00	837	55.19- 95.19	75.19
3.565	3.565	0.000	2815672 1000.00	905	38.21- 78.21	58.21
3.799	3.799	0.000	2676080 1000.00	838	35.32- 75.32	55.32

Average of Peak Amounts =

856

Data File: /chem/eod1a.i/021710.b/007b0701.d

Date : 17-FEB-2010 07:39

Client ID: AR123201

Sample Info: IAR100104-32

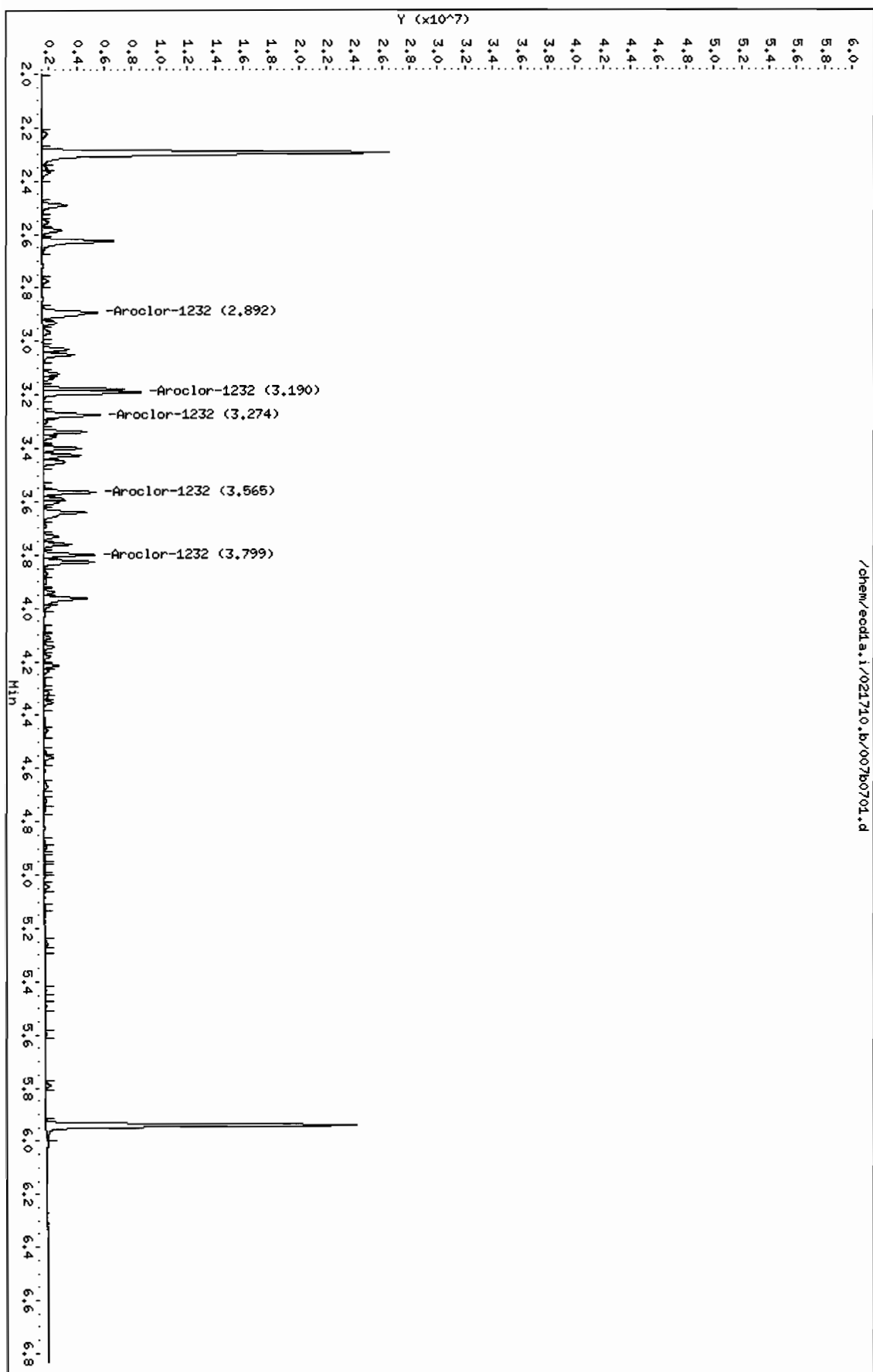
Page 1

Instrument: eod1a.i

Operator: YSL

Column diameter: 0.25

Column phase: CLP2



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021710.b/008f0801.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 17-FEB-2010 07:50

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100104-21

Misc Info :

Comment :

Method : /chem/ecdla.i/021710.b/ECD1-F-8082-021110.m

Meth Date : 17-Feb-2010 10:07 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 8

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1221.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclpl

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
----	--------	--------	-----------------------------	-------------------	--------------	-------

2 Aroclor-1221

CAS #: 11104-28-2

2.075	2.075	0.000	4728257 1000.00	1100	80.00- 120.00	100.00
2.168	2.168	0.000	2539636 1000.00	1040	33.71- 73.71	53.71
2.194	2.194	0.000	11364270 1000.00	1110	220.35- 260.35	240.35

Average of Peak Amounts =

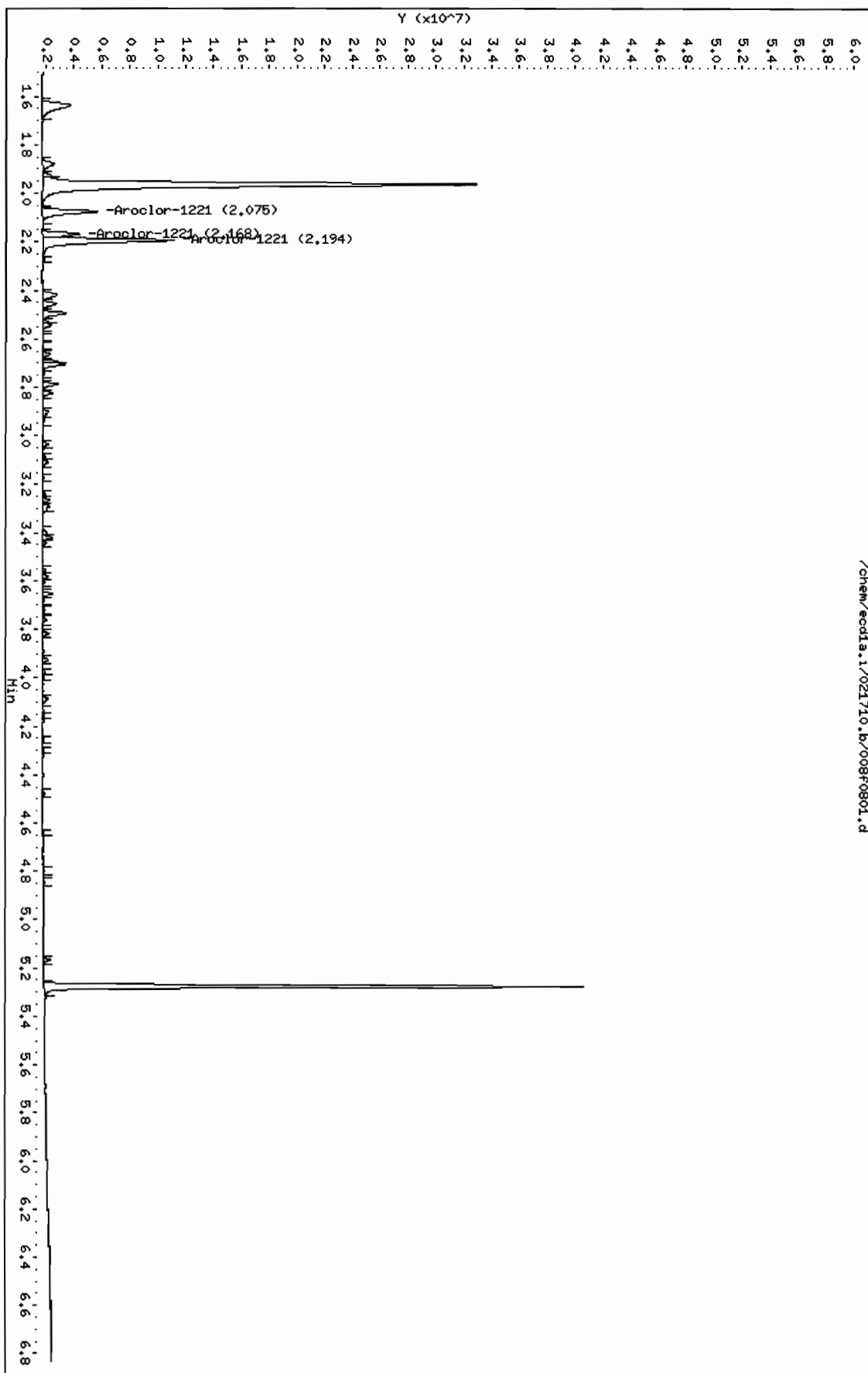
1.08e+03

Data File: /chem/ecda,i/021710.b/008f0801.d
Date : 17-FEB-2010 07:50
Client ID: AR122101
Sample Info: 14AR100104-21

Column phase: CLP1

Instrument: ecda,i
Operator: YSL
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdla.i/021710.b/008b0801.d
Lab Smp Id: WAR100104-21 Client Smp ID: AR122101
Inj Date : 17-FEB-2010 07:50
Operator : YS1 Inst ID: ecdla.i
Smp Info : |WAR100104-21
Misc Info :
Comment :
Method : /chem/ecdla.i/021710.b/ECD1-B-8082-021110.m
Meth Date : 17-Feb-2010 10:07 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpclp1

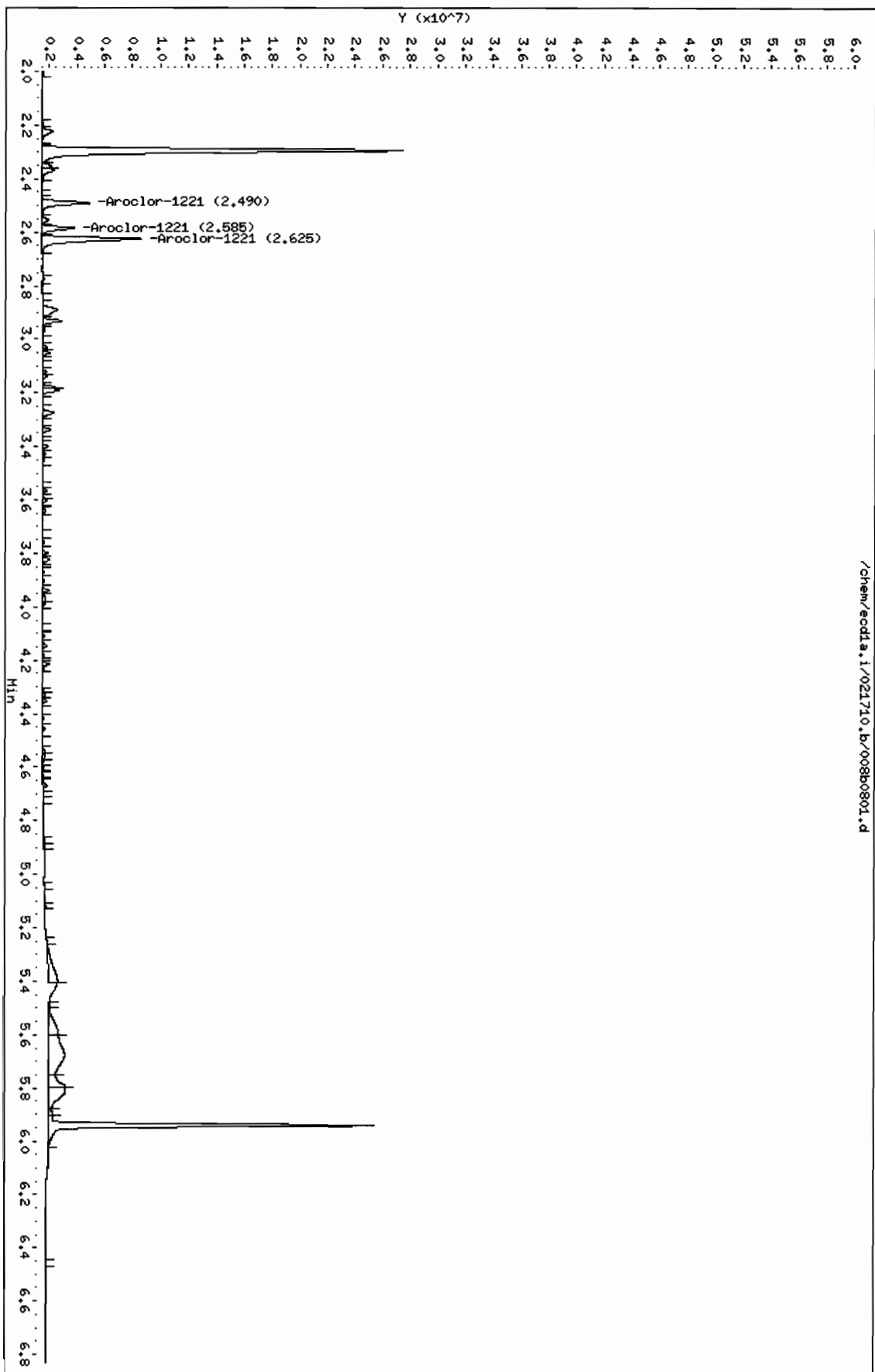
AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO

2 Aroclor-1221			CAS #: 11104-28-2			
2.490	2.490	0.000	3352645 1000.00	921	80.00- 120.00	100.00
2.585	2.585	0.000	2128374 1000.00	914	43.48- 83.48	63.48
2.625	2.625	0.000	7221503 1000.00	889	195.40- 235.40	215.40
Average of Peak Amounts =				908		

Data File: /chem/ecdda.i/021710.b/0080801.d
Date: 17-FEB-2010 07:50
Client ID: AR122101
Sample Info: 1MAR100104-21
Column phase: CLP2

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021710.b/017f1701.d
 Lab Smp Id: WAR100203-60 02 Client Smp ID: AR166002
 Inj Date : 17-FEB-2010 09:35
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |WAR100203-60 02
 Misc Info :
 Comment :
 Method : /chem/ecdl1a.i/021710.b/ECD1-F-8082-021110.m
 Meth Date : 17-Feb-2010 11:39 yip00818 Quant Type: ESTD
 Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d
 Als bottle: 17 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1660.sub
 Target Version: 3.50 Sample Matrix: None
 Processing Host: hpc1p1

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
1.959	1.961	-0.002	41717567	100.000	95.4	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.274	5.275	-0.001	30732902	100.000	92.1	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
2.414	2.416	-0.002	14758503	1000.00	916	80.00-	120.00	100.00
2.703	2.705	-0.002	18527881	1000.00	936	105.54-	145.54	125.54
2.784	2.785	-0.001	11717668	1000.00	900	59.40-	99.40	79.40
2.822	2.823	-0.001	7138772	1000.00	917	28.37-	68.37	48.37
3.033	3.034	-0.001	9017131	1000.00	900	41.10-	81.10	61.10
Average of Peak Amounts =					914			

7 Aroclor-1260					CAS #: 11096-82-5			
3.760	3.760	0.000	18939798	1000.00	995	80.00-	120.00	100.00
3.923	3.923	0.000	28451108	1000.00	1000	130.22-	170.22	150.22
4.153	4.153	0.000	17053994	1000.00	1000	70.04-	110.04	90.04
4.296	4.296	0.000	17823429	1000.00	996	74.11-	114.11	94.11
4.475	4.476	-0.001	40023510	1000.00	1030	191.32-	231.32	211.32
Average of Peak Amounts =					1.01e+03			

Data File: /chem/eod1a.i/021710.b/017f1701.d

Date: 17-FEB-2010 09:35

Client ID: AR166002

Sample Info: 11AR100203-60 02

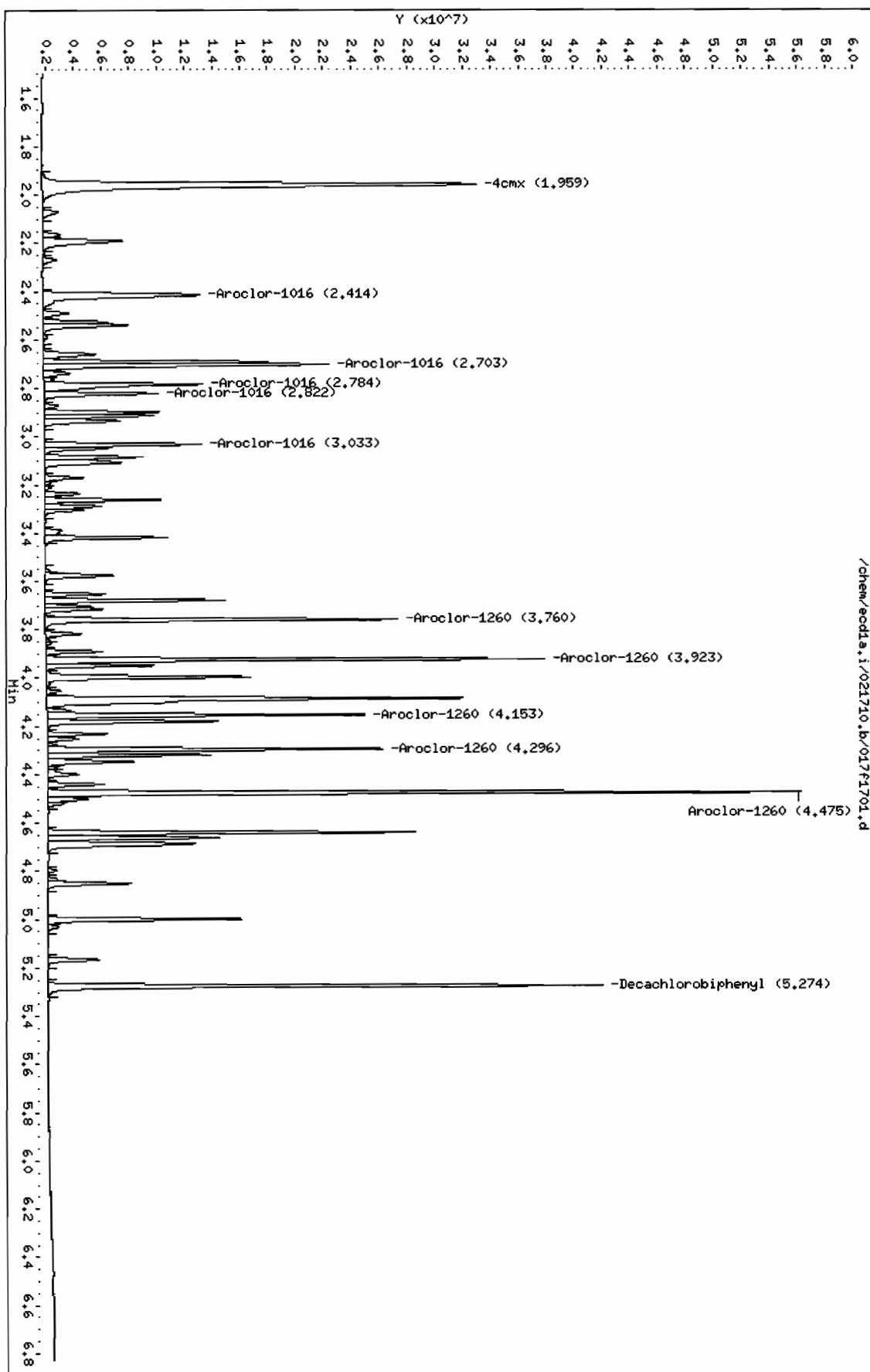
Page 1

Column phase: CLP1

Instrument: eod1a.i

Operator: YSL

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021710.b/017b1701.d
Lab Smp Id: WAR100203-60 02 Client Smp ID: AR166002
Inj Date : 17-FEB-2010 09:35
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |WAR100203-60 02
Misc Info :
Comment :
Method : /chem/ecdl1a.i/021710.b/ECD1-B-8082-021110.m
Meth Date : 17-Feb-2010 11:39 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpc1p1

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
2.292	2.294	-0.002	26829583	100.000	93.5	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.940	5.941	-0.001	19293437	100.000	89.7	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.189	3.190	-0.001	11562765	1000.00	930	80.00-	120.00	100.00
3.273	3.273	0.000	7486822	1000.00	879	44.75-	84.75	64.75
3.336	3.336	0.000	4611500	1000.00	878	19.88-	59.88	39.88
3.563	3.564	-0.001	6093358	1000.00	905	32.70-	72.70	52.70
3.639	3.639	0.000	5605012	1000.00	886	28.47-	68.47	48.47
Average of Peak Amounts =					896			

7 Aroclor-1260					CAS #: 11096-82-5			
4.330	4.330	0.000	12216902	1000.00	970	80.00-	120.00	100.00
4.455	4.455	0.000	14927310	1000.00	991	102.19-	142.19	122.19
4.721	4.721	0.000	11331366	1000.00	975	72.75-	112.75	92.75
4.894	4.895	-0.001	11745324	1000.00	976	76.14-	116.14	96.14
5.042	5.041	0.001	26160964	1000.00	1010	194.14-	234.14	214.14
Average of Peak Amounts =					985			

Data File: /chem/ecdda.i/021710.b/017b1701.d

Date: 17-FEB-2010 09:35

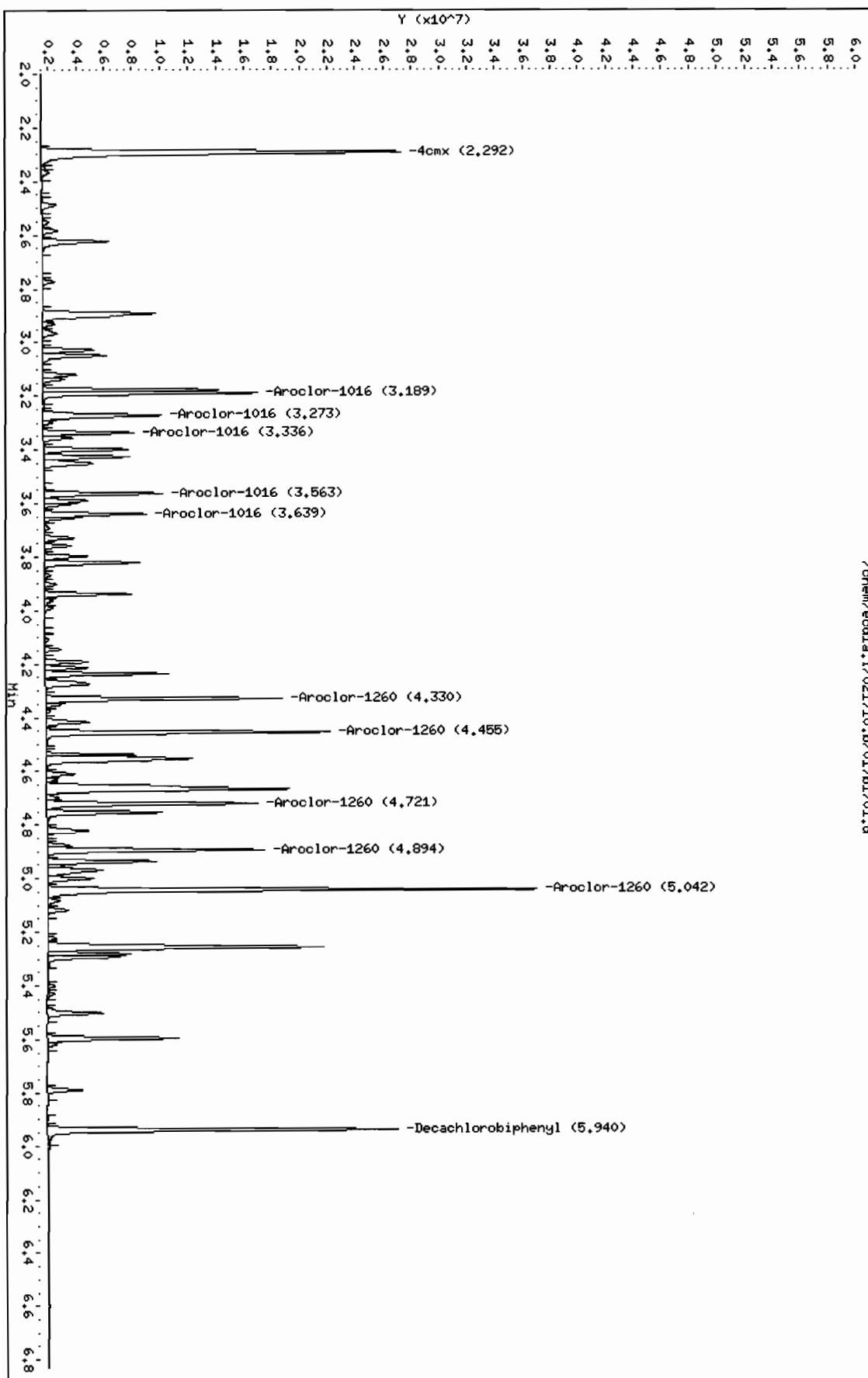
Client ID: AR166002

Sample Info: 1MAR100203-60 02

Page 1

Column phase: CLP2

Operator: YS1
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecdl1a.i/021710.b/029f2901.d
 Lab Smp Id: WAR100203-60 03 Client Smp ID: AR166003
 Inj Date : 17-FEB-2010 12:07
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |WAR100203-60 03
 Misc Info :
 Comment :
 Method : /chem/ecdl1a.i/021710.b/ECD1-F-8082-021110.m
 Meth Date : 17-Feb-2010 12:20 yip00818 Quant Type: ESTD
 Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d
 Als bottle: 29 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1660.sub
 Target Version: 3.50 Sample Matrix: None
 Processing Host: hpclpl

AMOUNTS								
			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
<hr/>								
\$ 11 4cmx					CAS #: 877-09-8			
1.965	1.961	0.004	42525674	100.000	97.3	80.00- 120.00	100.00	
<hr/>								
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.267	5.275	-0.008	31230996	100.000	93.6	80.00- 120.00	100.00	
<hr/>								
1 Aroclor-1016					CAS #: 12674-11-2			
2.416	2.416	0.000	14612984	1000.00	907	80.00- 120.00	100.00	
2.703	2.705	-0.002	18416099	1000.00	931	106.03- 146.03	126.03	
2.783	2.785	-0.002	11913341	1000.00	915	61.53- 101.53	81.53	
2.821	2.823	-0.002	7159624	1000.00	920	28.99- 68.99	48.99	
3.030	3.034	-0.004	9186812	1000.00	917	42.87- 82.87	62.87	
Average of Peak Amounts =					918			
<hr/>								
7 Aroclor-1260					CAS #: 11096-82-5			
3.754	3.760	-0.006	19133943	1000.00	1000	80.00- 120.00	100.00	
3.917	3.923	-0.006	28717788	1000.00	1010	130.09- 170.09	150.09	
4.146	4.153	-0.007	17174510	1000.00	1010	69.76- 109.76	89.76	
4.290	4.296	-0.006	18382647	1000.00	1030	76.07- 116.07	96.07	
4.469	4.476	-0.007	40180021	1000.00	1030	189.99- 229.99	209.99	
Average of Peak Amounts =					1.02e+03			

Data File: /chem/ecdda.i/021710.b/029f2901.d

Date: 17-FEB-2010 12:07

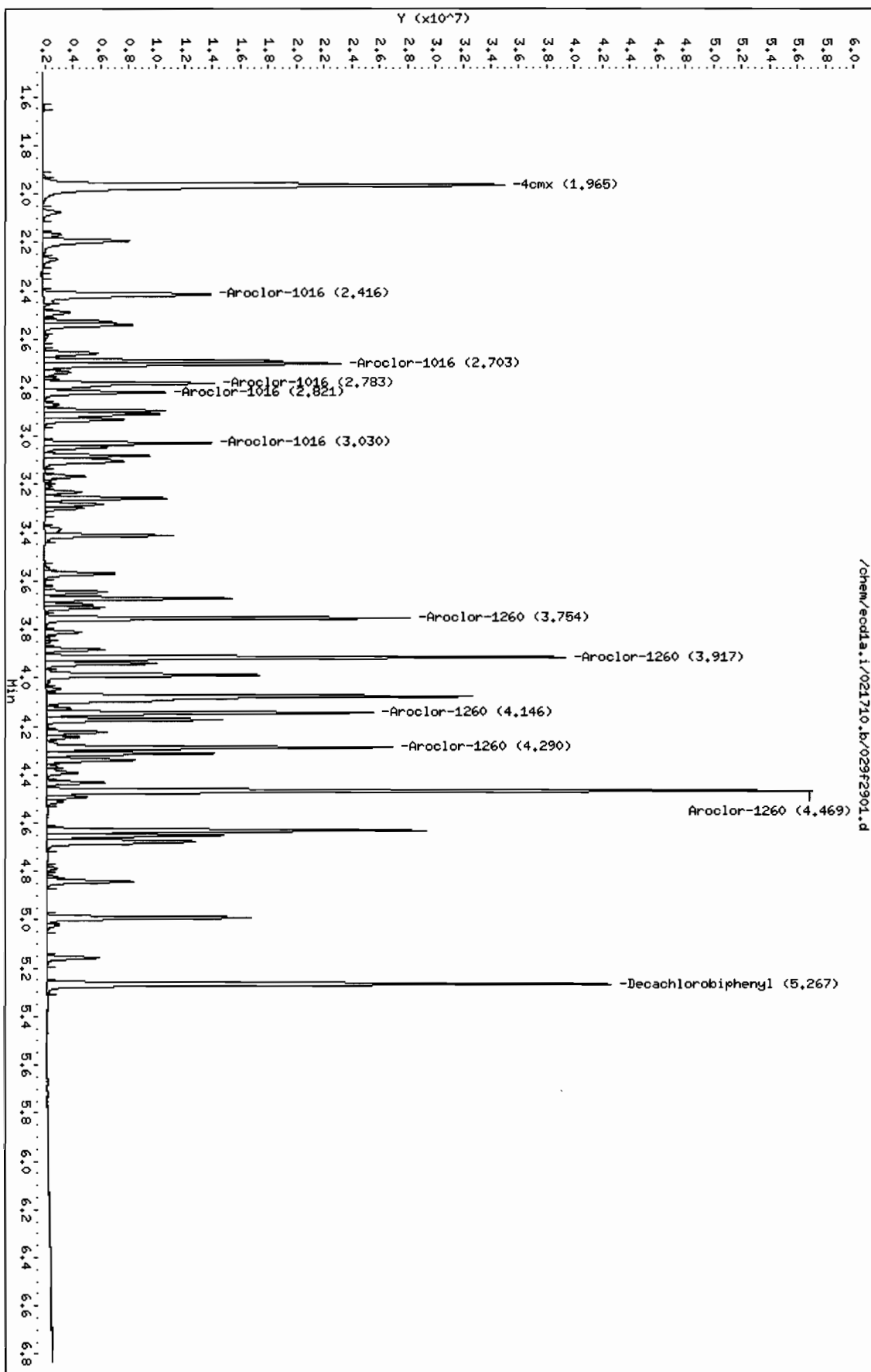
Client ID: AR166003

Sample Info: IMA100203-60 03

Page 1

Column phase: CLP1

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdla.i/021710.b/029b2901.d
Lab Smp Id: WAR100203-60 03 Client Smp ID: AR166003
Inj Date : 17-FEB-2010 12:07
Operator : YS1 Inst ID: ecdla.i
Smp Info : |WAR100203-60 03
Misc Info :
Comment :
Method : /chem/ecdla.i/021710.b/ECD1-B-8082-021110.m
Meth Date : 17-Feb-2010 12:20 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
Als bottle: 29 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpclpl

AMOUNTS								
			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
2.295	2.294	0.001	27704149	100.000	96.6	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.936	5.941	-0.005	19515130	100.000	90.7	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2			
3.187	3.190	-0.003	11734228	1000.00	944	80.00- 120.00	100.00	
3.270	3.273	-0.003	7692754	1000.00	903	45.56- 85.56	65.56	
3.334	3.336	-0.002	4763637	1000.00	907	20.60- 60.60	40.60	
3.560	3.564	-0.004	6230898	1000.00	926	33.10- 73.10	53.10	
3.636	3.639	-0.003	5722802	1000.00	905	28.77- 68.77	48.77	
Average of Peak Amounts =					917			

7 Aroclor-1260					CAS #: 11096-82-5			
4.326	4.330	-0.004	12435482	1000.00	988	80.00- 120.00	100.00	
4.451	4.455	-0.004	15038954	1000.00	998	100.94- 140.94	120.94	
4.716	4.721	-0.005	11448560	1000.00	985	72.06- 112.06	92.06	
4.890	4.895	-0.005	11857342	1000.00	986	75.35- 115.35	95.35	
5.036	5.041	-0.005	26359667	1000.00	1020	191.97- 231.97	211.97	
Average of Peak Amounts =					995			

Data File: /chem/ecdl1.i/021710.b/029b2901.d

Date : 17-FEB-2010 12:07

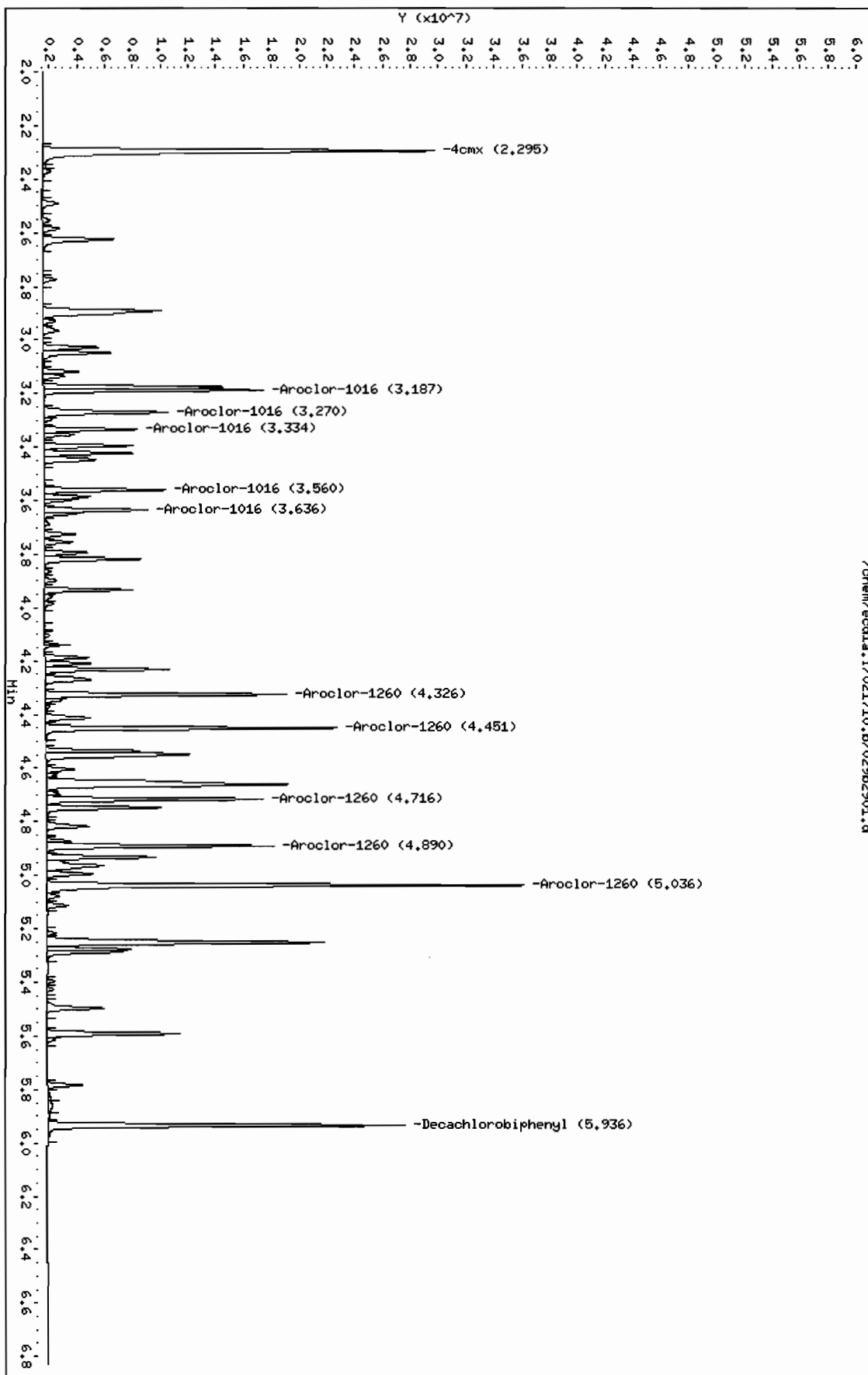
Client ID: AR166003

Sample Info: IAR100203-60 03

Page 1

Column phase: CLP2

Operator: YSL
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/021910.b/002f0201.d

Lab Smp Id: WAR100203-60 01

Client Smp ID: AR166001

Inj Date : 19-FEB-2010 07:20

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100203-60 01

Misc Info :

Comment :

Method : /chem/ecdl1.i/021910.b/ECD1-F-8082-021110.m

Meth Date : 19-Feb-2010 12:24 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 2

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx				CAS #: 877-09-8			
1.960	1.960	0.000	41221209 100.000	94.3	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.275	5.275	0.000	30689028 100.000	92.0	80.00- 120.00	100.00	

1 Aroclor-1016				CAS #: 12674-11-2			
2.416	2.416	0.000	14538870 1000.00	902	80.00- 120.00	100.00	
2.705	2.705	0.000	18589964 1000.00	940	109.31- 149.31	127.86	
2.785	2.785	0.000	11571859 1000.00	888	61.87- 101.87	79.59	
2.824	2.824	0.000	7000295 1000.00	900	29.11- 69.11	48.15	
3.035	3.035	0.000	8958052 1000.00	894	43.70- 83.70	61.61	
Average of Peak Amounts =				905			

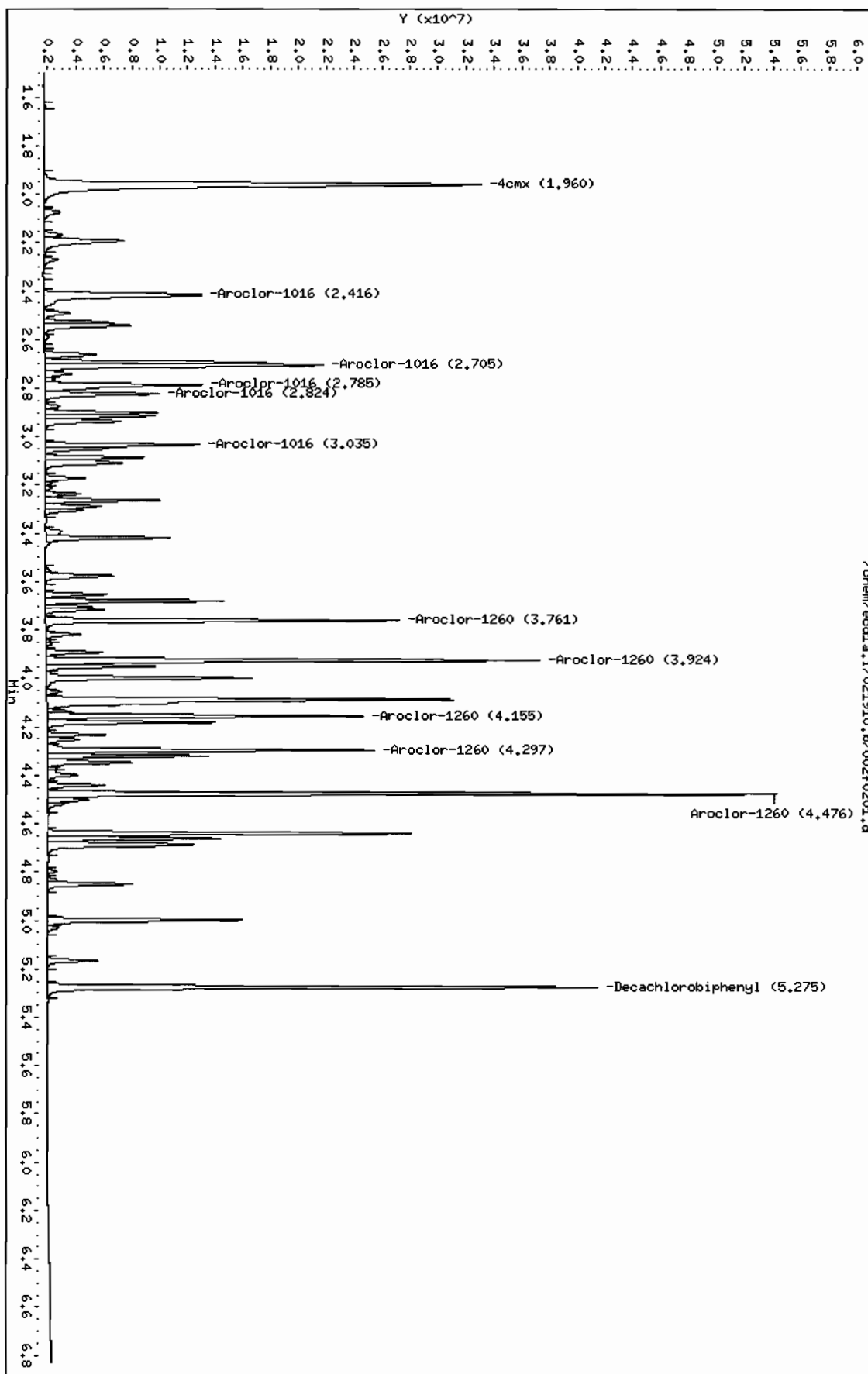
7 Aroclor-1260				CAS #: 11096-82-5			
3.761	3.761	0.000	18651332 1000.00	980	80.00- 120.00	100.00	
3.924	3.924	0.000	27971780 1000.00	986	131.99- 171.99	149.97	
4.155	4.155	0.000	16796069 1000.00	985	71.33- 111.33	90.05	
4.297	4.297	0.000	17965081 1000.00	1000	77.85- 117.85	96.32	
4.476	4.476	0.000	39428405 1000.00	1010	196.24- 236.24	211.40	
Average of Peak Amounts =				994			

Data File: /chem/ecdda.i/021910.b/002f0201.d
Date : 19-FEB-2010 07:20
Client ID: AR166001
Sample Info: MAR100203-60 01

Column phase: CLP1

Instrument: ecdda.i
Operator: YSI
Column diameter: 0.25

Page 1



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021910.b/002b0201.d

Lab Smp Id: WAR100203-60 01

Client Smp ID: AR166001

Inj Date : 19-FEB-2010 07:20

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100203-60 01

Misc Info :

Comment :

Method : /chem/ecdla.i/021910.b/ECD1-B-8082-021110.m

Meth Date : 19-Feb-2010 12:23 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 2

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE	RATIO

\$ 11 4cmx					CAS #: 877-09-8		
2.292	2.292	0.000	26876386	100.000	93.7	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.940	5.940	0.000	19715228	100.000	91.6	80.00- 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2		
3.190	3.190	0.000	11587847	1000.00	932	80.00- 120.00	100.00 (M)
3.272	3.272	0.000	7422580	1000.00	871	44.04- 84.04	64.05
3.335	3.335	0.000	4573783	1000.00	870	19.38- 59.38	39.47
3.563	3.563	0.000	5854504	1000.00	870	32.10- 72.10	50.52
3.639	3.639	0.000	5475415	1000.00	866	28.04- 68.04	47.25
Average of Peak Amounts =					882		

7 Aroclor-1260					CAS #: 11096-82-5		
4.330	4.330	0.000	12204161	1000.00	969	80.00- 120.00	100.00
4.455	4.455	0.000	14970781	1000.00	994	102.29- 142.29	122.67
4.720	4.720	0.000	11289838	1000.00	972	72.77- 112.77	92.51
4.894	4.894	0.000	11666937	1000.00	970	75.69- 115.69	95.60
5.041	5.041	0.000	25917738	1000.00	1000	193.43- 233.43	212.37
Average of Peak Amounts =					982		

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecdl1.i/021910.b/002b0201.d

Date: 19-FEB-2010 07:20

Client ID: AR166001

Sample Info: IWR100203-60 01

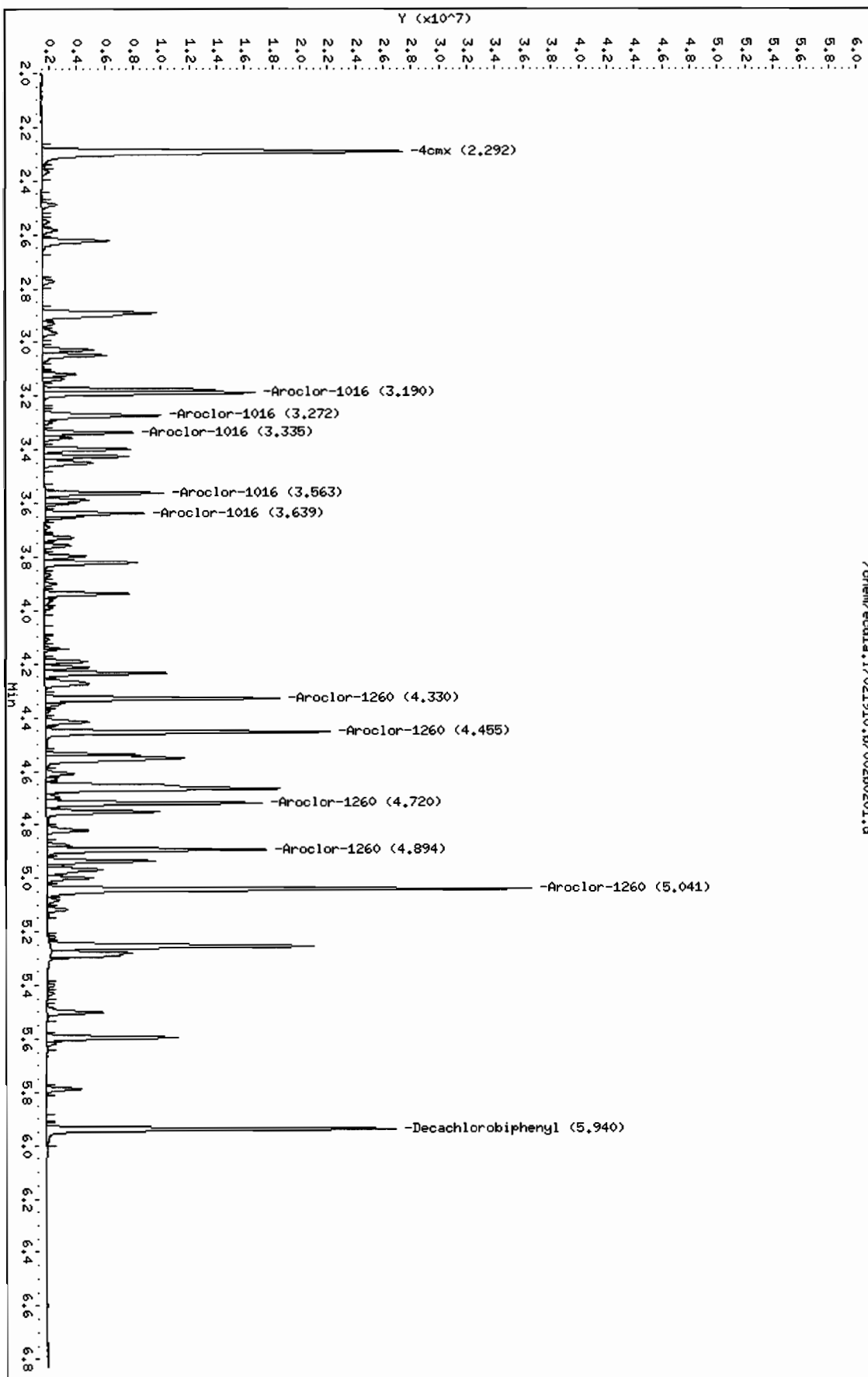
Page 1

Column phase: CLP2

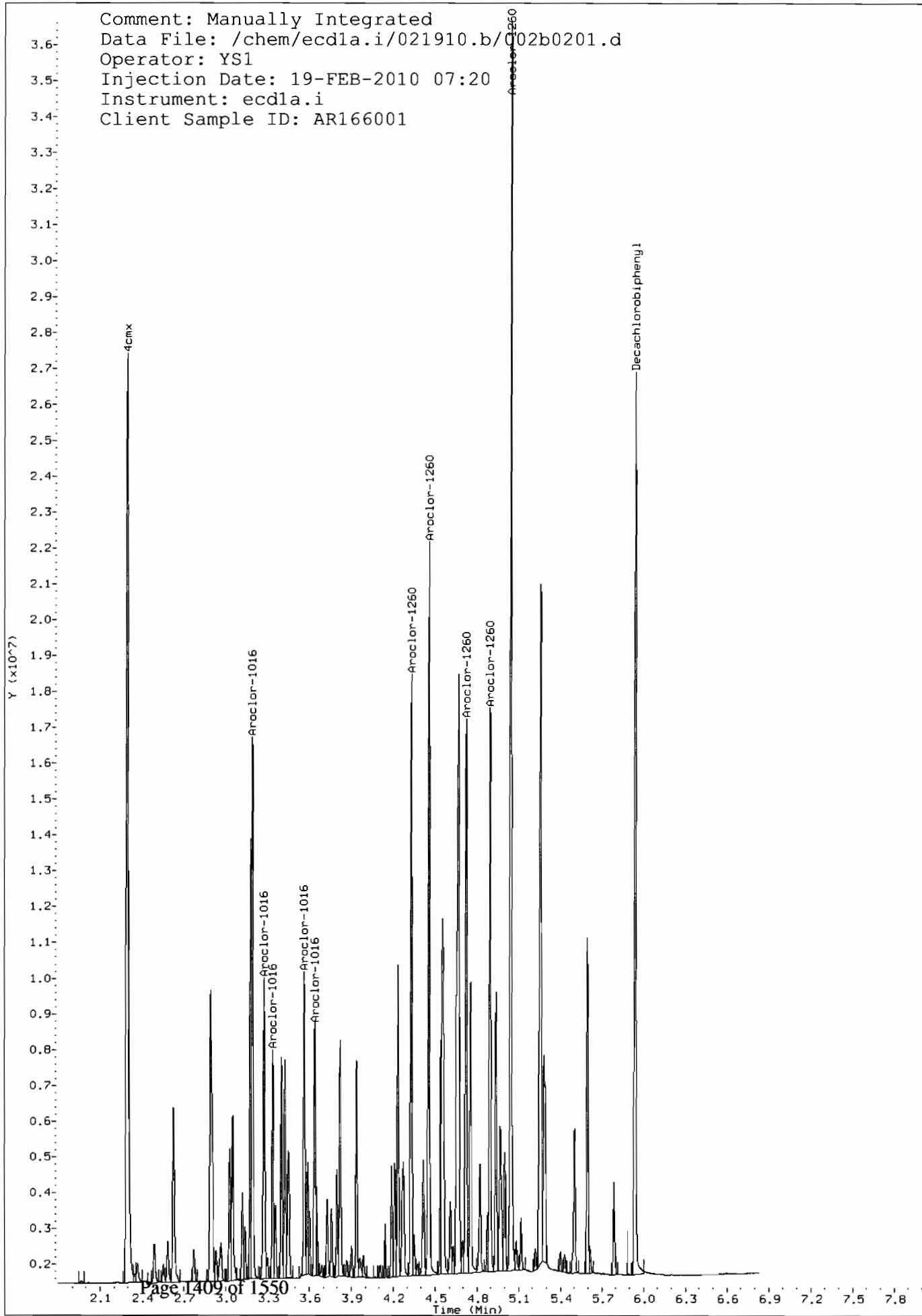
Instrument: ecdl1.i

Operator: YSI

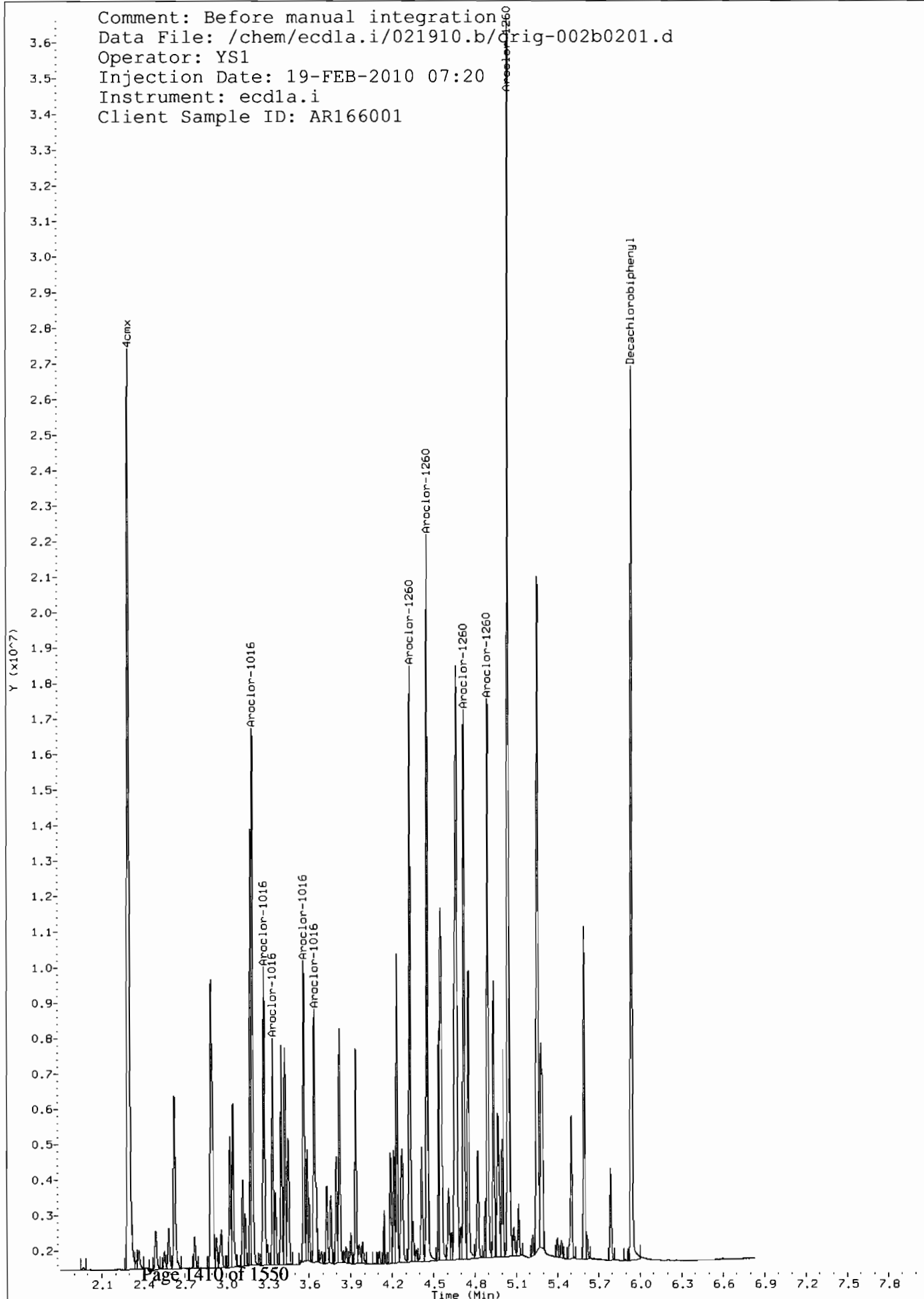
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/021910.b/002b0201.d
Operator: YS1
Injection Date: 19-FEB-2010 07:20
Instrument: ecdl1a.i
Client Sample ID: AR166001



Comment: Before manual integration
Data File: /chem/ecdl.a.i/021910.b/Orig-002b0201.d
Operator: YS1
Injection Date: 19-FEB-2010 07:20
Instrument: ecdla.i
Client Sample ID: AR166001



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021910.b/003f0301.d

Lab Smp Id: WAR091216-54

Client Smp ID: AR125401

Inj Date : 19-FEB-2010 07:30

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR091216-54

Misc Info :

Comment :

Method : /chem/ecdl1a.i/021910.b/ECD1-F-8082-021110.m

Meth Date : 19-Feb-2010 12:24 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 3

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1254.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
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6 Aroclor-1254

CAS #: 11097-69-1

3.262	3.262	0.000	14904337 1000.00	944	80.00- 120.00	100.00
3.417	3.417	0.000	19825573 1000.00	929	113.02- 153.02	133.02
3.651	3.651	0.000	26176530 1000.00	960	155.63- 195.63	175.63
3.815	3.815	0.000	19659000 1000.00	953	111.90- 151.90	131.90
3.923	3.923	0.000	19215342 1000.00	981	108.92- 148.92	128.92

Average of Peak Amounts =

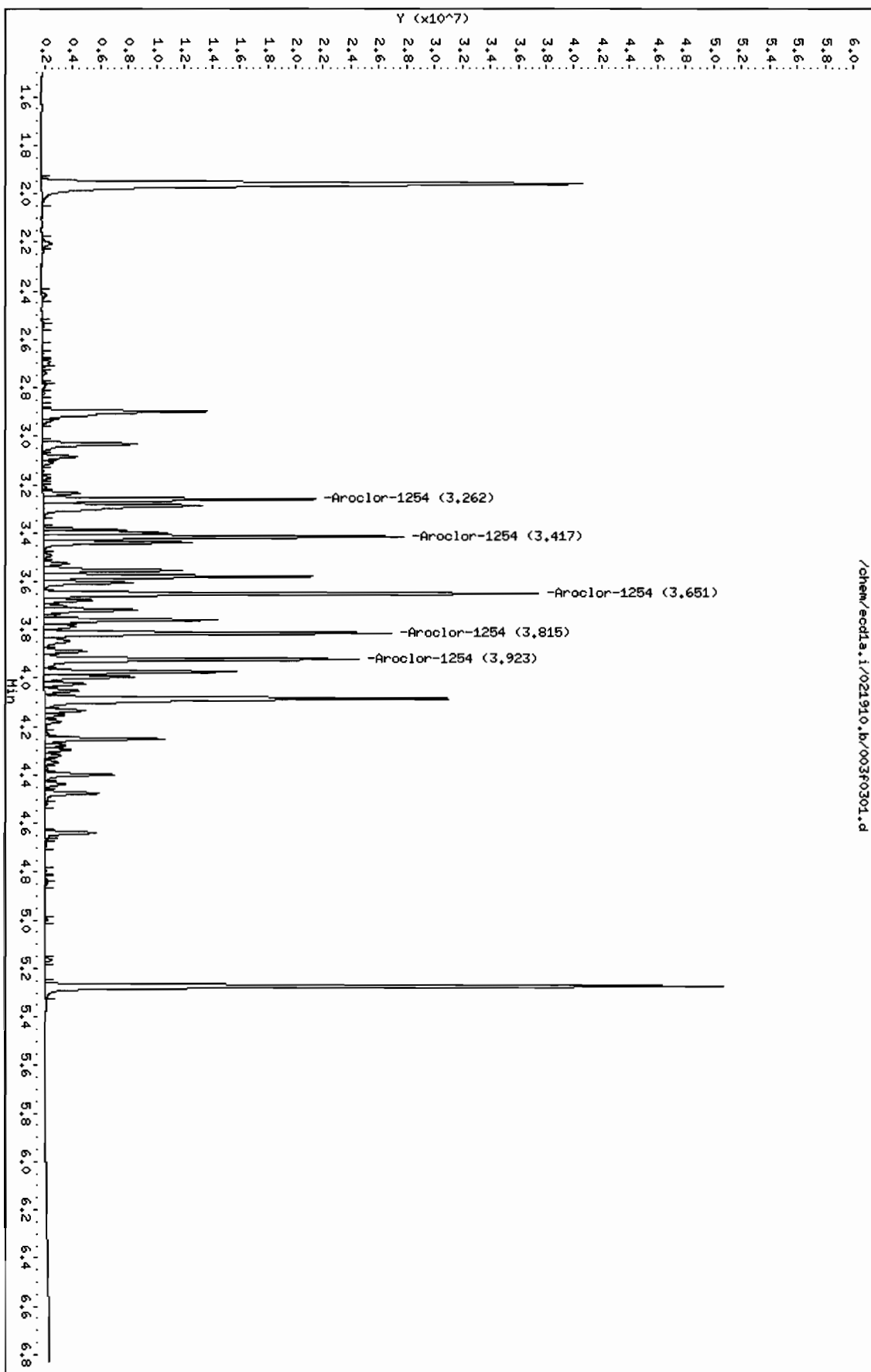
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Data File: /chem/ecdl.a.i/021910.b/003f0301.d
Date: 19-FEB-2010 07:30
Client ID: AR125401
Sample Info: 1MAR091216-54

Column phase: CLP1

Instrument: ecdl.a.i
Operator: YS1
Column diameter: 0.25

/chem/ecdl.a.i/021910.b/003f0301.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021910.b/003b0301.d
Lab Smp Id: WAR091216-54 Client Smp ID: AR125401
Inj Date : 19-FEB-2010 07:30
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |WAR091216-54
Misc Info :
Comment :
Method : /chem/ecdl1a.i/021910.b/ECD1-B-8082-021110.m
Meth Date : 19-Feb-2010 12:23 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 3.50 Sample Matrix: None

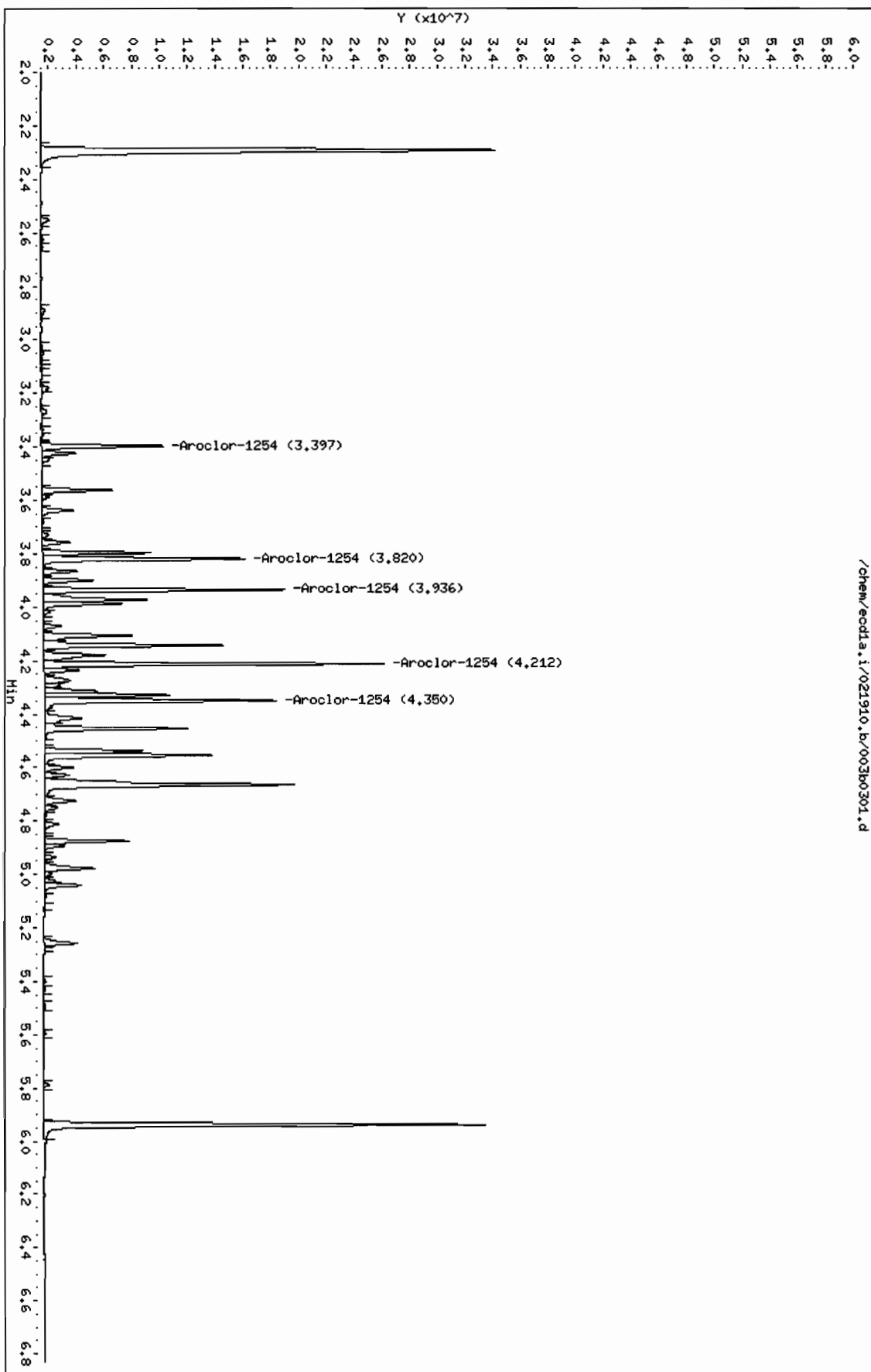
AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
6	Aroclor-1254				CAS #: 11097-69-1	
3.397	3.397	0.000	6228377 1000.00	939	80.00- 120.00	100.00
3.820	3.820	0.000	11254336 1000.00	962	160.69- 200.69	180.69
3.936	3.936	0.000	12354217 1000.00	958	178.35- 218.35	198.35
4.212	4.212	0.000	17206007 1000.00	973	256.25- 296.25	276.25
4.350	4.350	0.000	12822219 1000.00	973	185.87- 225.87	205.87
Average of Peak Amounts =				961		

Data File: /chem/ecdl1a.i/021910.b/003b0301.d
Date: 19-FEB-2010 07:30
Client ID: AR125401
Sample Info: 11AR091216-54

Column phase: CLP2

Instrument: ecdl1a.i
Operator: YS1
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021910.b/004f0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 19-FEB-2010 07:41

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR091217-42

Misc Info :

Comment :

Method : /chem/ecdla.i/021910.b/ECD1-F-8082-021110.m

Meth Date : 19-Feb-2010 12:24 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 4

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1242.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
----	--------	--------	-----------------------------	-------------------	--------------	-------

4 Aroclor-1242

CAS #: 53469-21-9

2.416	2.416	0.000	12751469 1000.00	896	80.00- 120.00	100.00
2.704	2.704	0.000	16076361 1000.00	932	106.07- 146.07	126.07
2.823	2.823	0.000	6144585 1000.00	915	28.19- 68.19	48.19
3.033	3.033	0.000	7996038 1000.00	902	42.71- 82.71	62.71
3.287	3.287	0.000	7820832 1000.00	910	41.33- 81.33	61.33

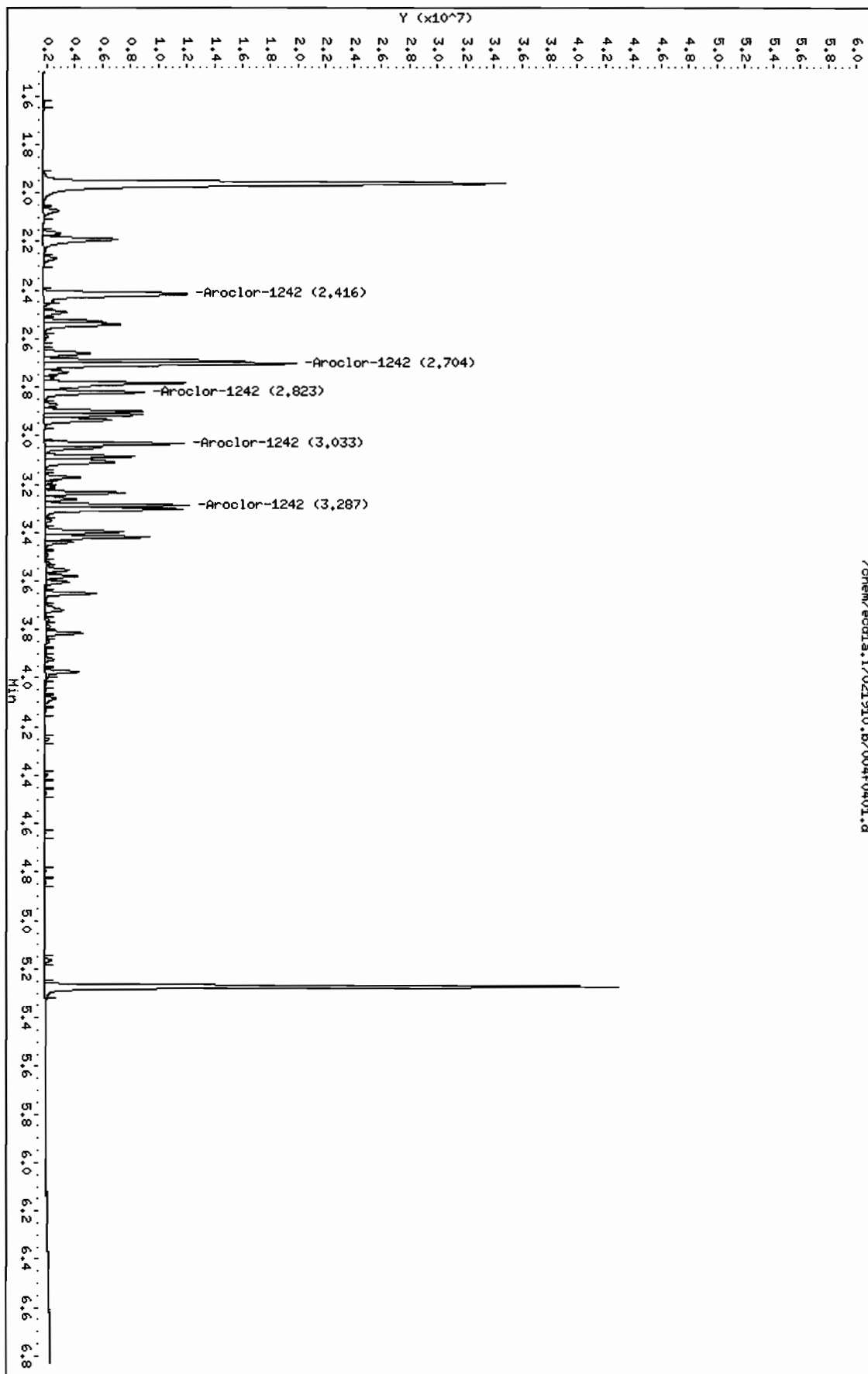
Average of Peak Amounts =

911

Data File: /chem/ecdl1a.i/021910.b/004f0401.d
Date : 19-FEB-2010 07:41
Client ID: AR124201
Sample Info: IMR091217-42
Column phase: CLP1

Instrument: ecdl1a.i
Operator: YSI
Column diameter: 0.25

/chem/ecdl1a.i/021910.b/004f0401.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021910.b/004b0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 19-FEB-2010 07:41

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR091217-42

Misc Info :

Comment :

Method : /chem/ecdl1a.i/021910.b/ECD1-B-8082-021110.m

Meth Date : 19-Feb-2010 12:23 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 4

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1242.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

4 Aroclor-1242

CAS #: 53469-21-9

3.189	3.189	0.000	9704482 1000.00	903	80.00- 120.00	100.00
3.272	3.272	0.000	6577918 1000.00	879	47.78- 87.78	67.78
3.563	3.563	0.000	5247245 1000.00	884	34.07- 74.07	54.07
3.796	3.796	0.000	5368134 1000.00	901	35.32- 75.32	55.32
3.824	3.824	0.000	6039057 1000.00	906	42.23- 82.23	62.23

Average of Peak Amounts =

895

Data File: /chem/ecdl1.i/021910.b/004b0401.d

Date: 19-FEB-2010 07:41

Client ID: AR124201

Sample Info: 11AR091217-42

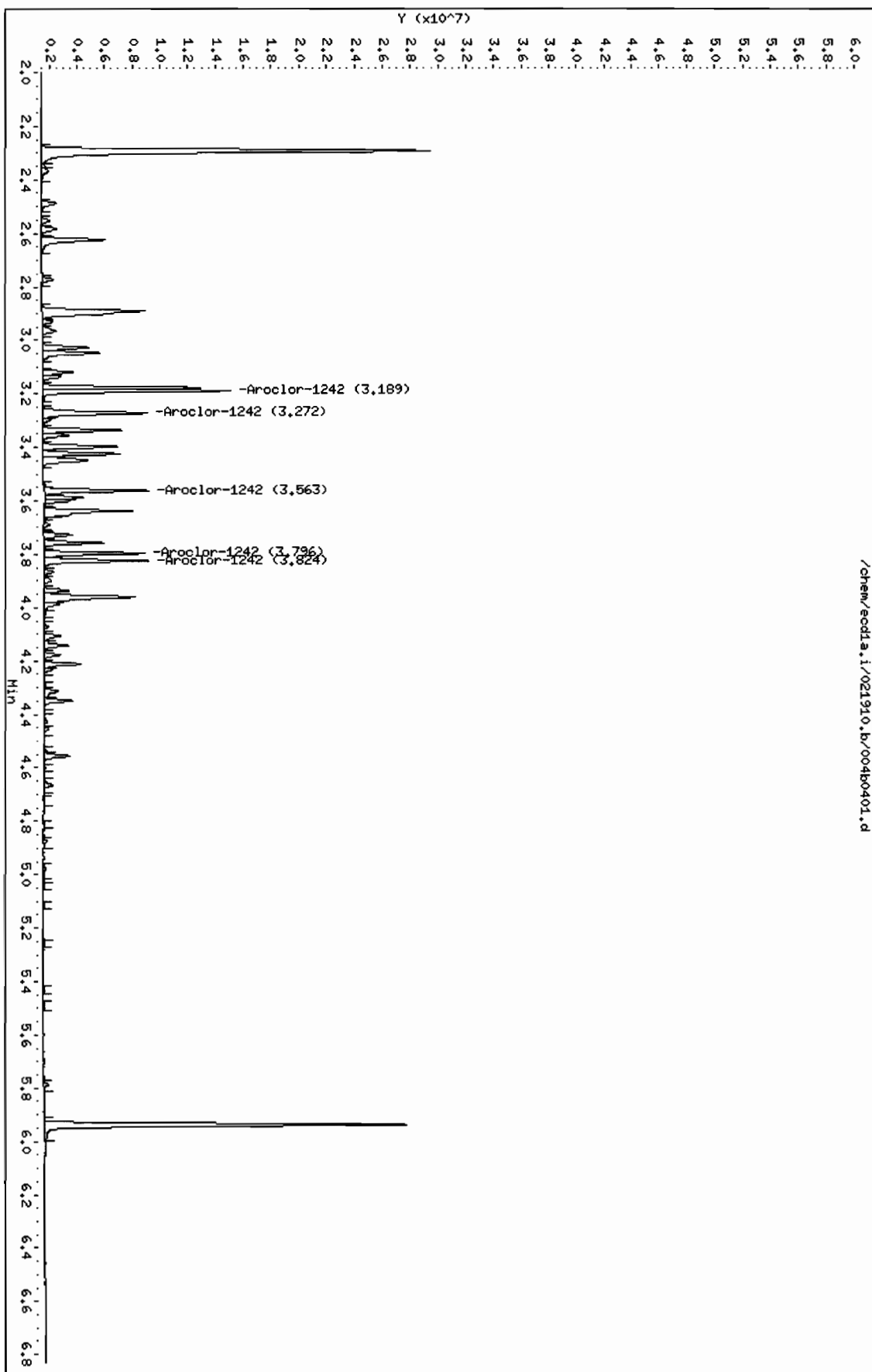
Column phase: CLP2

Instrument: ecdl1.i

Operator: YS1

Column diameter: 0.25

Page 1



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021910.b/005f0501.d

Lab Smp Id: WAR091217-48

Client Smp ID: AR124801

Inj Date : 19-FEB-2010 08:15

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR091217-48

Misc Info :

Comment :

Method : /chem/ecdla.i/021910.b/ECD1-F-8082-021110.m

Meth Date : 19-Feb-2010 12:24 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 5

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1248.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
5 Aroclor-1248					CAS #: 12672-29-6	
3.090	3.090	0.000	8089748 1000.00	856	80.00- 120.00	100.00(M)
3.242	3.242	0.000	6966482 1000.00	842	66.11- 106.11	86.11
3.293	3.293	0.000	13941291 1000.00	875	152.33- 192.33	172.33
3.425	3.425	0.000	11167467 1000.00	854	118.04- 158.04	138.04
3.658	3.658	0.000	7107615 1000.00	806	67.86- 107.86	87.86
Average of Peak Amounts =				847		

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/eodla.i/021910.b/005f0501.d

Date: 19-FEB-2010 08:15

Client ID: AR124801

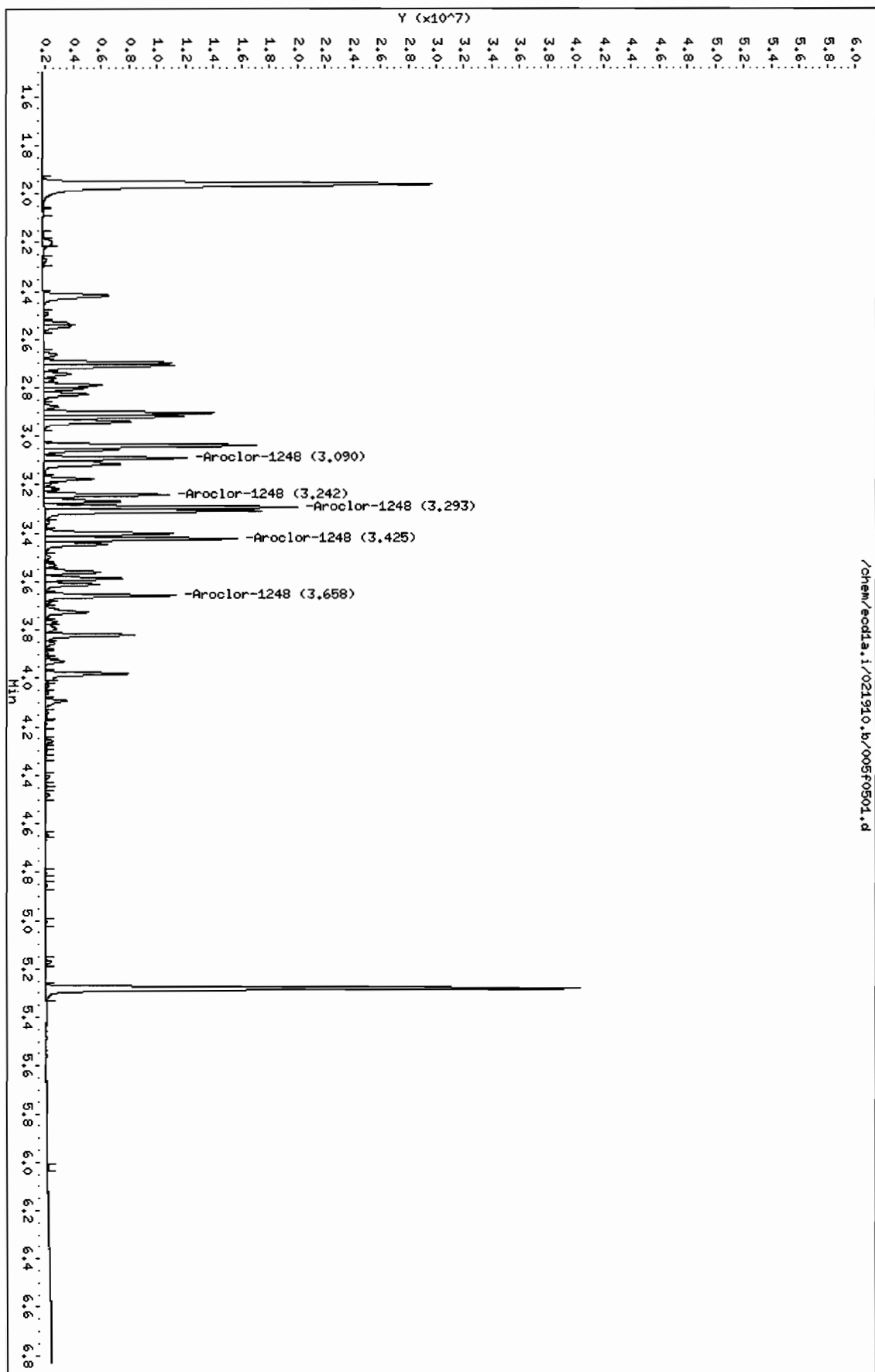
Sample Info: 1148091217-48

Column phase: CLP1

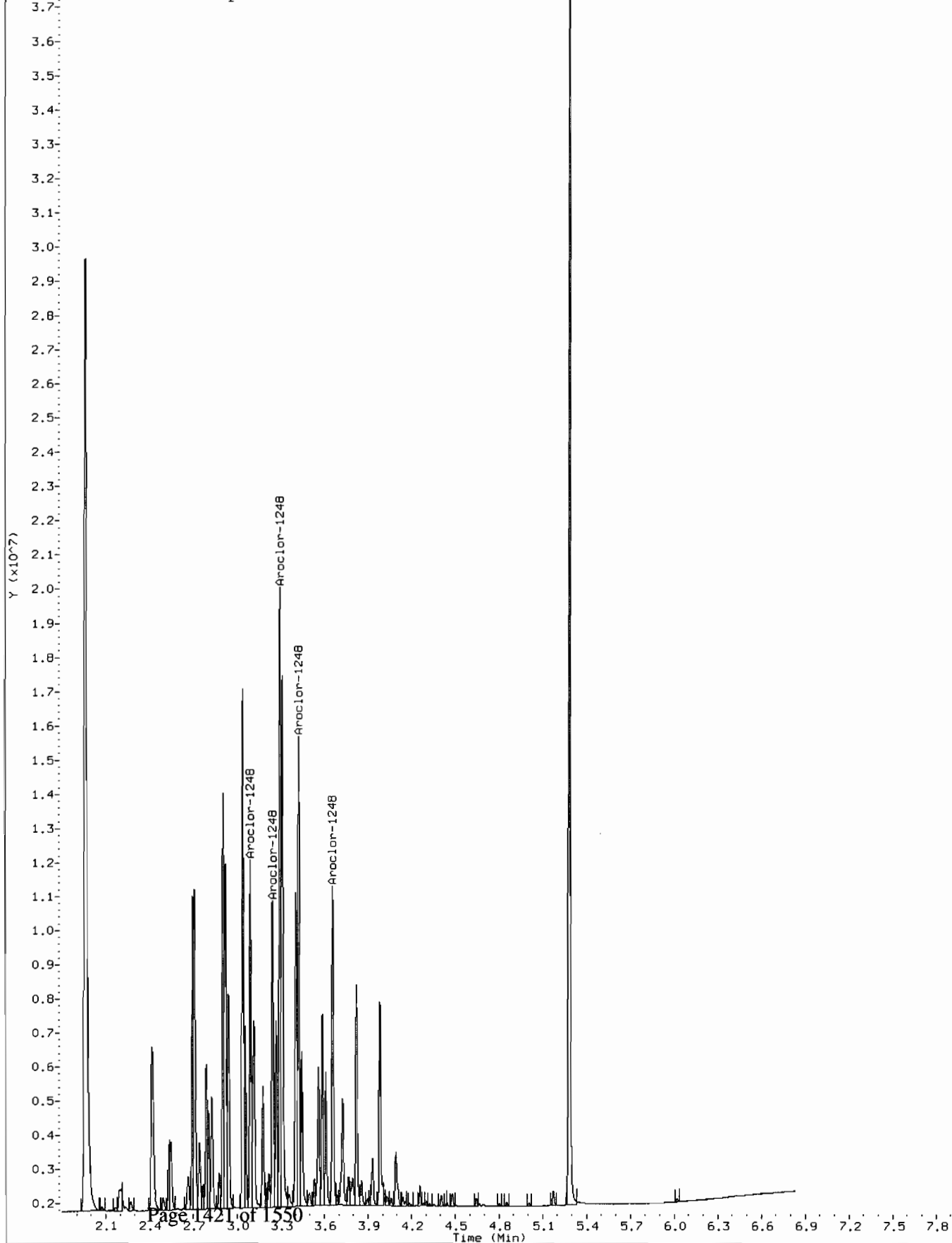
Instrument: eodla.i

Operator: YSL

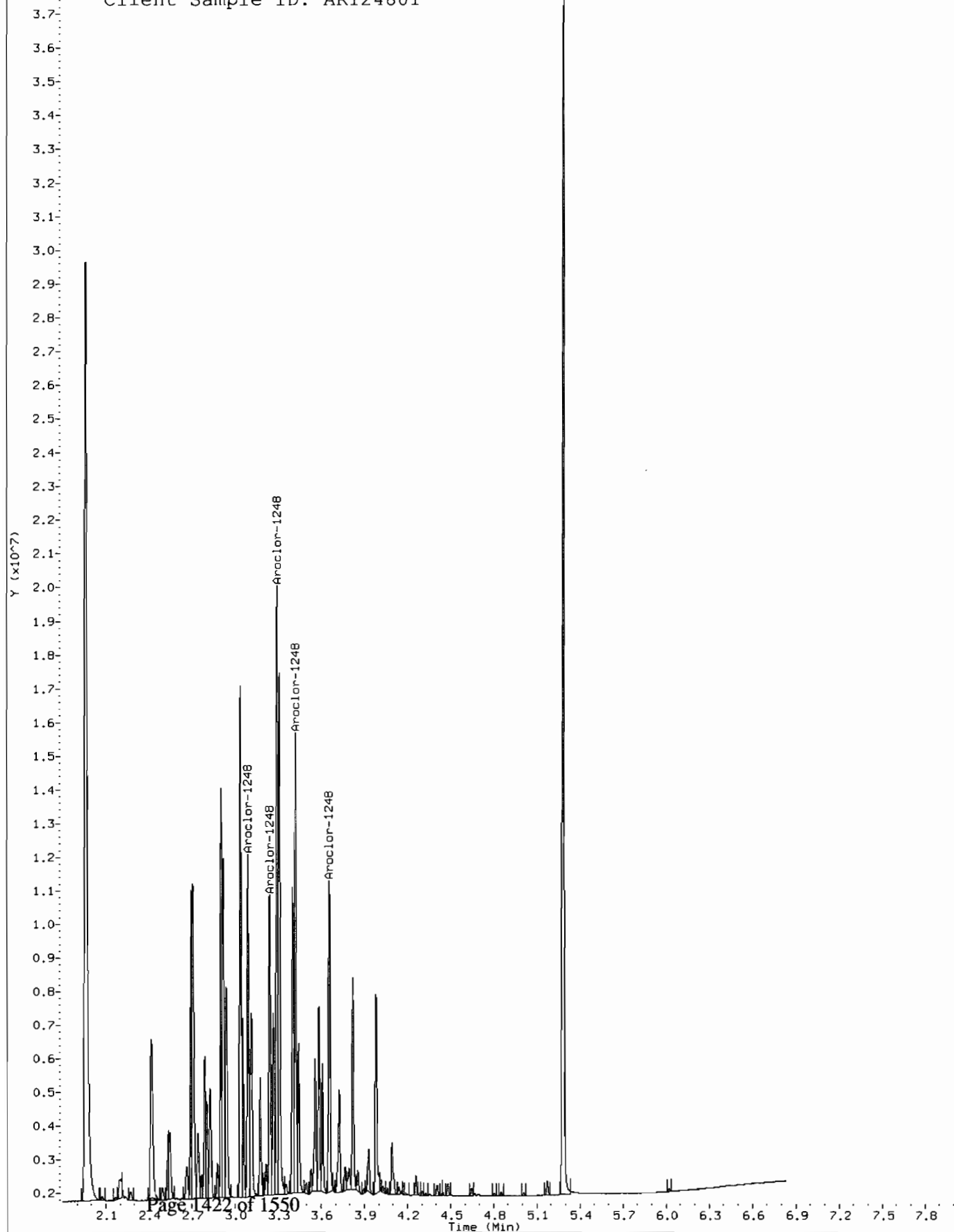
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/021910.b/005f0501.d
Operator: YS1
Injection Date: 19-FEB-2010 08:15
Instrument: ecd1a.i
Client Sample ID: AR124801



Comment: Before manual integration
Data File: /chem/ecdla.i/021910.b/orig-005f0501.d
Operator: YS1
Injection Date: 19-FEB-2010 08:15
Instrument: ecdla.i
Client Sample ID: AR124801



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021910.b/005b0501.d

Lab Smp Id: WAR091217-48

Client Smp ID: AR124801

Inj Date : 19-FEB-2010 08:15

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR091217-48

Misc Info :

Comment :

Method : /chem/ecdla.i/021910.b/ECD1-B-8082-021110.m

Meth Date : 19-Feb-2010 12:23 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 5

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1248.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====
5 Aroclor-1248					CAS #: 12672-29-6			
3.400	3.400	0.000	7082851	1000.00	923	80.00- 120.00	100.00	
3.566	3.566	0.000	8849805	1000.00	936	104.95- 144.95	124.95	
3.800	3.800	0.000	9971734	1000.00	928	120.79- 160.79	140.79	
3.828	3.828	0.000	11063445	1000.00	921	136.20- 176.20	156.20	
3.964	3.964	0.000	10605687	1000.00	917	129.74- 169.74	149.74	
Average of Peak Amounts =					925			

Data File: /chem/ecdl.a.i/021910.b/005b0501.d

Date: 19-FEB-2010 08:15

Client ID: AR124801

Sample Info: 1MAR091217-48

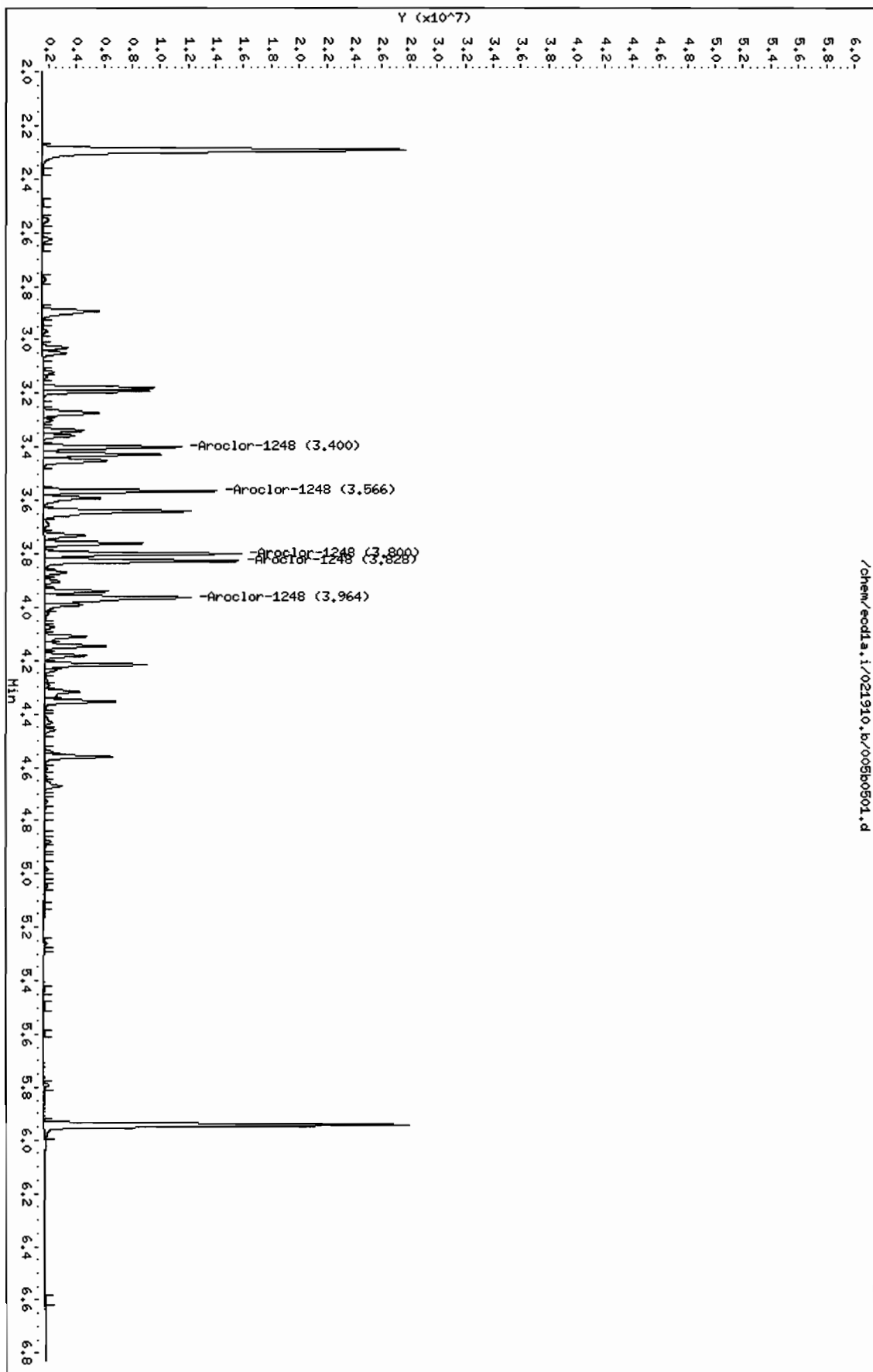
Column phase: CLP2

Instrument: ecdl.a.i

Operator: YS1

Column diameter: 0.25

/chem/ecdl.a.i/021910.b/005b0501.d



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021910.b/006f0601.d

Lab Smp Id: WAR100104-32

Client Smp ID: AR123201

Inj Date : 19-FEB-2010 08:26

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100104-32

Misc Info :

Comment :

Method : /chem/ecdl1a.i/021910.b/ECD1-F-8082-021110.m

Meth Date : 19-Feb-2010 12:24 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 6

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1232.sub

Target Version: 3.50

Sample Matrix: None

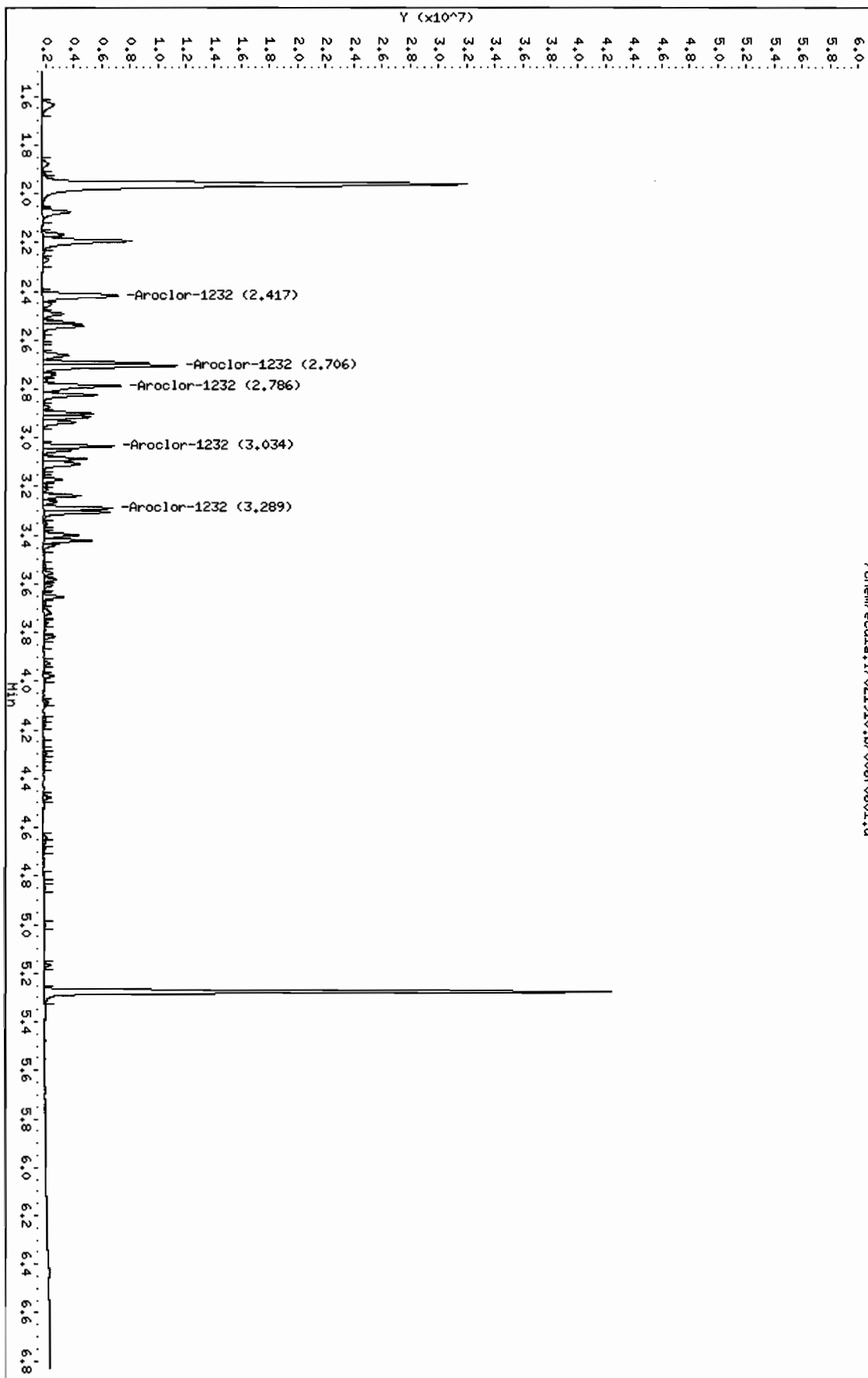
AMOUNTS

			CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
<hr/>						
3 Aroclor-1232			CAS #: 11141-16-5			
2.417	2.417	0.000	6512150 1000.00	951	80.00- 120.00	100.00
2.706	2.706	0.000	8664426 1000.00	1030	113.05- 153.05	133.05
2.786	2.786	0.000	5458486 1000.00	970	63.82- 103.82	83.82
3.034	3.034	0.000	4111695 1000.00	1030	43.14- 83.14	63.14
3.289	3.289	0.000	3665952 1000.00	950	36.29- 76.29	56.29
Average of Peak Amounts =			986			

Data File: /chem/ecdl.a.i/021910.b/006f0601.d
Date: 19-FEB-2010 08:26
Client ID: AR123201
Sample Info: IMA100104-32
Column phase: CLP1

Instrument: ecdl.a.i
Operator: YSI
Column diameter: 0.25

/chem/ecdl.a.i/021910.b/006f0601.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021910.b/006b0601.d

Lab Smp Id: WAR100104-32

Client Smp ID: AR123201

Inj Date : 19-FEB-2010 08:26

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100104-32

Misc Info :

Comment :

Method : /chem/ecdla.i/021910.b/ECD1-B-8082-021110.m

Meth Date : 19-Feb-2010 12:23 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 6

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1232.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

3 Aroclor-1232

CAS #: 11141-16-5

2.890	2.890	0.000	5409226 1000.00	918	80.00- 120.00	100.00
3.189	3.189	0.000	5854334 1000.00	941	88.23- 128.23	108.23
3.272	3.272	0.000	4069501 1000.00	937	55.23- 95.23	75.23
3.563	3.563	0.000	3055162 1000.00	982	36.48- 76.48	56.48
3.797	3.797	0.000	2968000 1000.00	929	34.87- 74.87	54.87

Average of Peak Amounts =

941

Data File: /chem/ecdda.i/021910.b/006b0601.d

Date: 19-FEB-2010 08:26

Client ID: AR123201

Sample Info: 1MAR100104-32

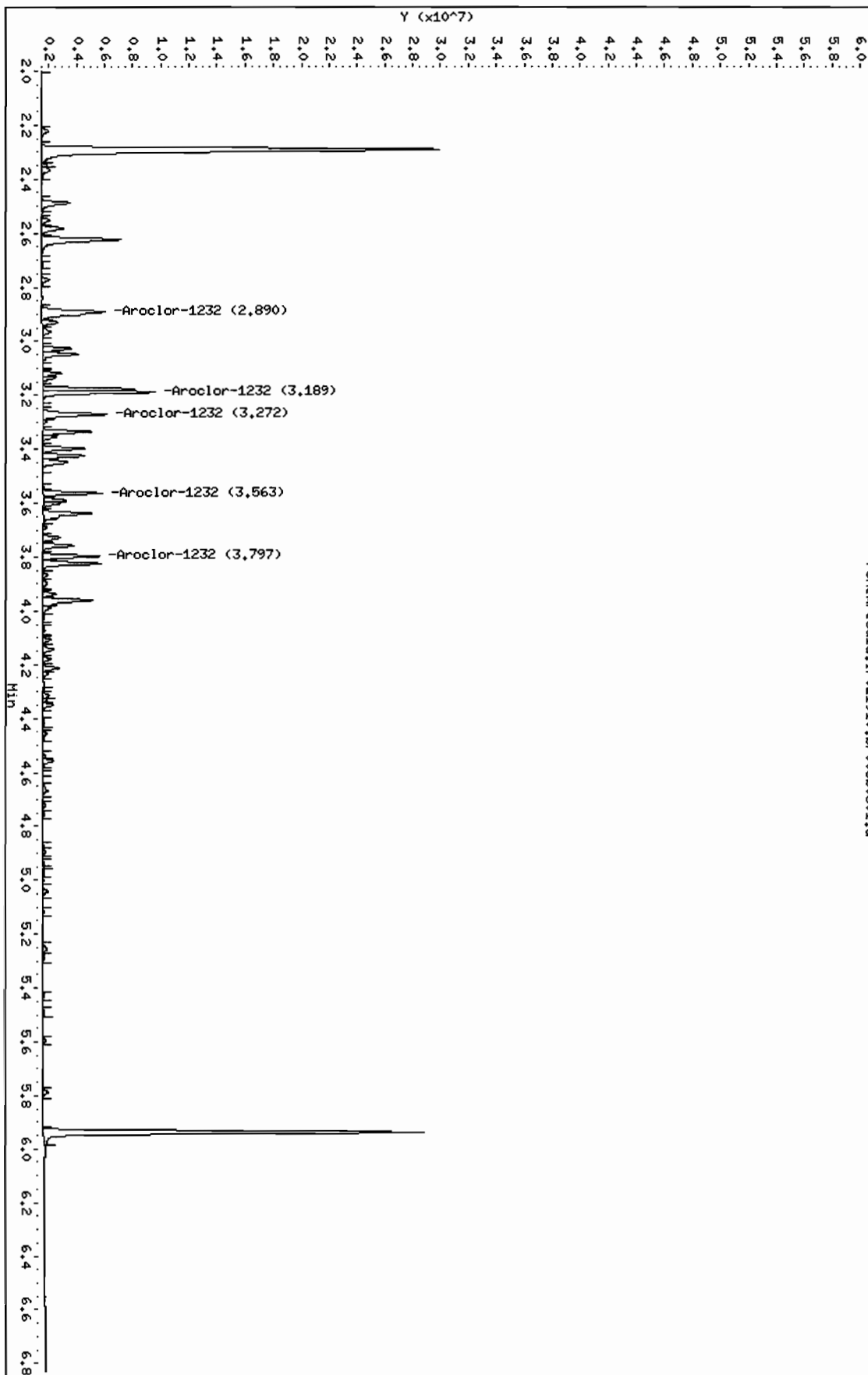
Column phase: CLP2

Instrument: ecdda.i

Operator: YS1

Column diameter: 0.25

/chem/ecdda.i/021910.b/006b0601.d



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021910.b/007f0701.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 19-FEB-2010 08:36

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100104-21

Misc Info :

Comment :

Method : /chem/ecdla.i/021910.b/ECD1-F-8082-021110.m

Meth Date : 19-Feb-2010 12:24 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 7

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1221.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

2 Aroclor-1221

CAS #: 11104-28-2

2.073	2.073	0.000	4041508 1000.00	940	80.00- 120.00	100.00
2.166	2.166	0.000	2222208 1000.00	910	34.98- 74.98	54.98
2.193	2.193	0.000	9871427 1000.00	961	224.25- 264.25	244.25

Average of Peak Amounts =

937

Data File: /chem/eod1a.i/021910.b/007f0701.d

Date : 19-FEB-2010 08:36

Client ID: AR122101

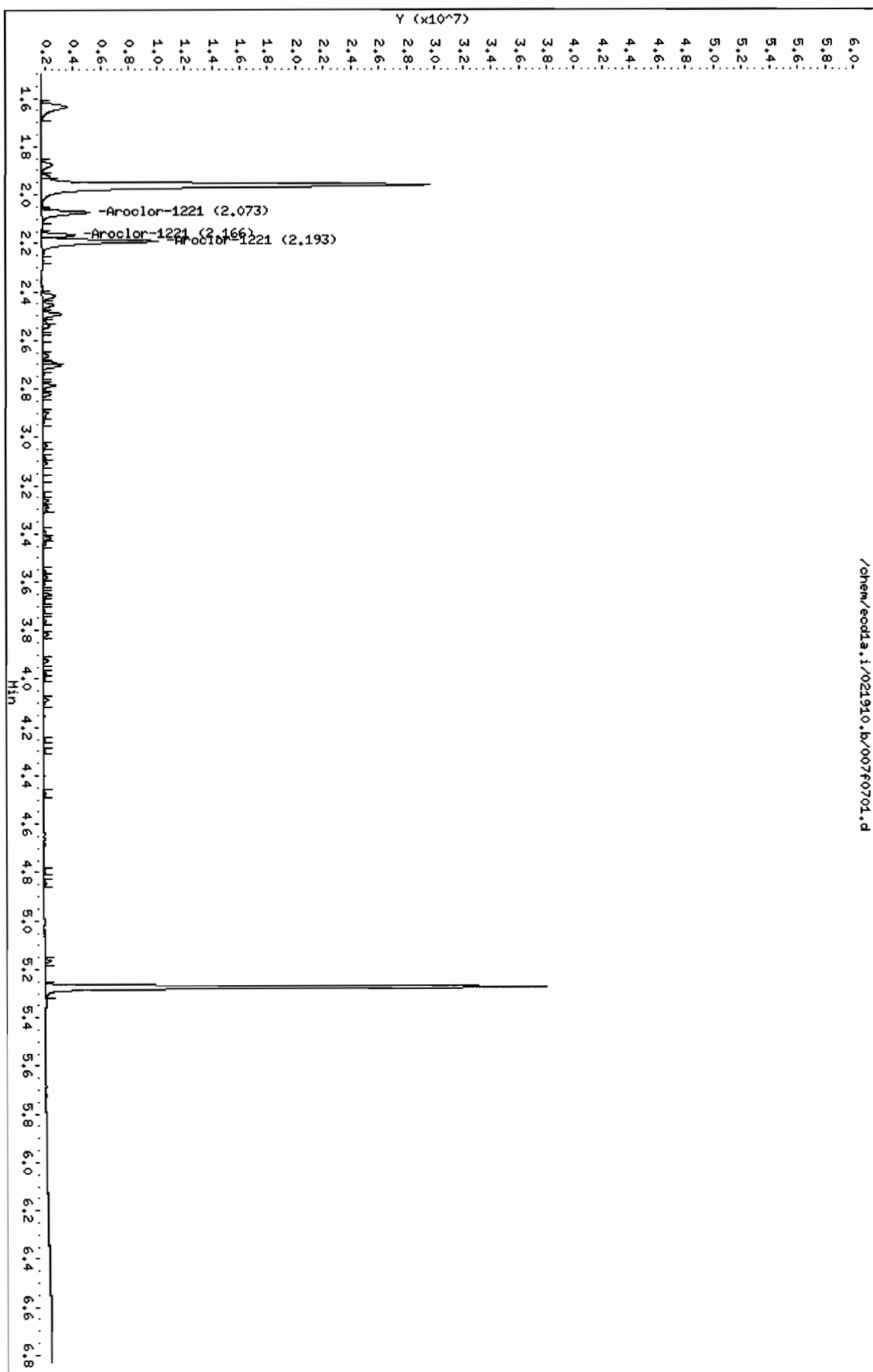
Sample Info: IWR100104-21

Column phase: CLP1

Instrument: eod1a.i

Operator: YS1

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021910.b/007b0701.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 19-FEB-2010 08:36

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100104-21

Misc Info :

Comment :

Method : /chem/ecdla.i/021910.b/ECD1-B-8082-021110.m

Meth Date : 19-Feb-2010 12:23 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 7

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1221.sub

Target Version: 3.50

Sample Matrix: None

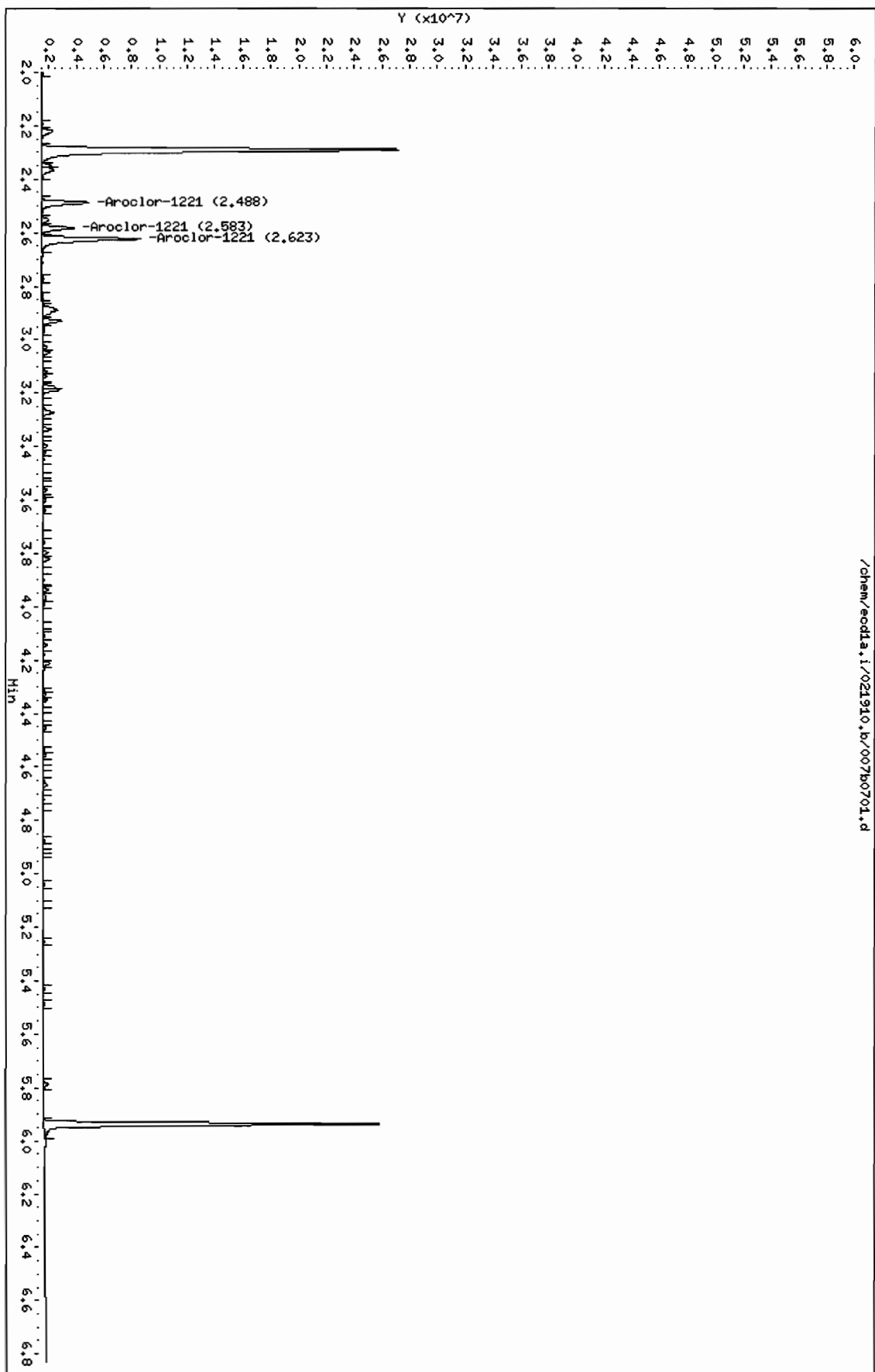
AMOUNTS

			CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
2.488	2.488	0.000	3195895	1000.00	878 80.00- 120.00	100.00
2.583	2.583	0.000	2068356	1000.00	888 44.72- 84.72	64.72
2.623	2.623	0.000	7087246	1000.00	873 201.76- 241.76	221.76
Average of Peak Amounts =			880			

Data File: /chem/ecdda.i/021910.b/007b0701.d
Date : 19-FEB-2010 08:36
Client ID: AR122104
Sample Info: IMA0100104-21

Column phase: CLP2

Instrument: ecdda.i
Operator: YS1
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021910.b/016f1601.d

Lab Smp Id: WAR100203-60 02

Client Smp ID: AR166002

Inj Date : 19-FEB-2010 10:13

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100203-60 02

Misc Info :

Comment :

Method : /chem/ecdl1a.i/021910.b/ECD1-F-8082-021110.m

Meth Date : 19-Feb-2010 11:39 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 16

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
\$ 11 4cmx				CAS #: 877-09-8		
1.960	1.960	0.000	38149481 100.000	87.3	80.00- 120.00	100.00

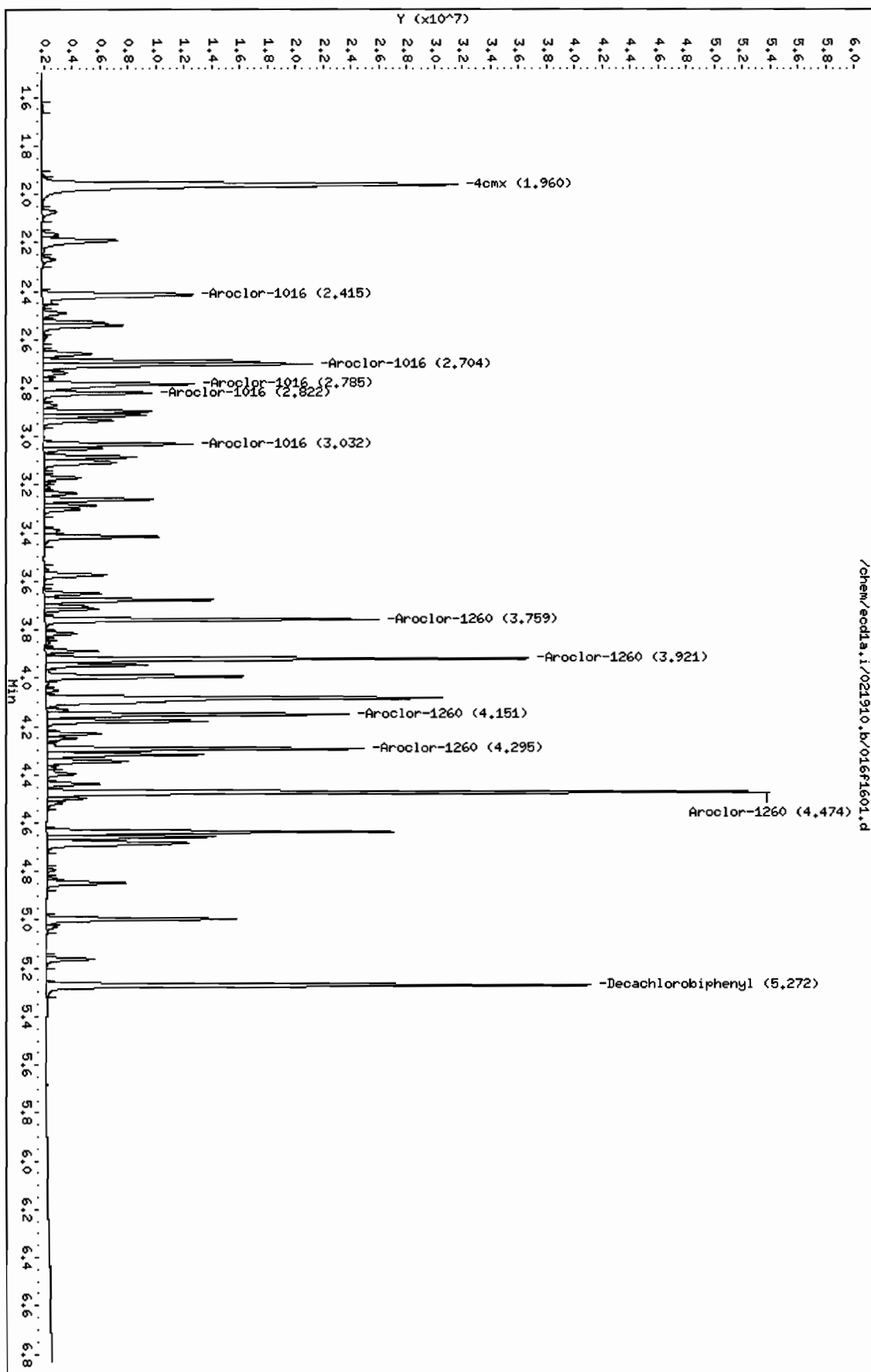
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.272	5.275	-0.003	30194497 100.000	90.5	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
2.415	2.416	-0.001	13130775 1000.00	815	80.00- 120.00	100.00
2.704	2.705	-0.001	16837661 1000.00	851	108.23- 148.23	128.23
2.785	2.785	0.000	10728807 1000.00	824	61.71- 101.71	81.71
2.822	2.824	-0.002	6438258 1000.00	827	29.03- 69.03	49.03
3.032	3.035	-0.003	8442508 1000.00	842	44.30- 84.30	64.30
Average of Peak Amounts =				832		

7 Aroclor-1260				CAS #: 11096-82-5		
3.759	3.761	-0.002	17535747 1000.00	921	80.00- 120.00	100.00
3.921	3.924	-0.003	26657830 1000.00	940	132.02- 172.02	152.02
4.151	4.155	-0.004	16014512 1000.00	940	71.32- 111.32	91.32
4.295	4.297	-0.002	17022501 1000.00	951	77.07- 117.07	97.07
4.474	4.476	-0.002	38070863 1000.00	980	197.10- 237.10	217.10
Average of Peak Amounts =				947		

Data File: /chem/ecda.i/021910.b/0161601.d
Date: 19-FEB-2010 10:13
Client ID: AR166002
Sample Info: IMR100203-60 02
Column phase: CLP1

Instrument: ecda.i
Operator: YS1
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021910.b/016b1601.d
 Lab Smp Id: WAR100203-60 02 Client Smp ID: AR166002
 Inj Date : 19-FEB-2010 10:13
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |WAR100203-60 02
 Misc Info :
 Comment :
 Method : /chem/ecdl1a.i/021910.b/ECD1-B-8082-021110.m
 Meth Date : 19-Feb-2010 11:39 yip00818 Quant Type: ESTD
 Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
 Als bottle: 16 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1660.sub
 Target Version: 3.50 Sample Matrix: None

AMOUNTS								
			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====

\$ 11 4cmx					CAS #: 877-09-8			
2.292	2.292	0.000	27510430	100.000	95.9	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.938	5.940	-0.002	19917091	100.000	92.6	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.188	3.190	-0.002	11612832	1000.00	934	80.00-	120.00	100.00 (M)
3.271	3.272	-0.001	7595688	1000.00	891	45.41-	85.41	65.41
3.335	3.335	0.000	4703575	1000.00	895	20.50-	60.50	40.50
3.561	3.563	-0.002	5975230	1000.00	888	31.45-	71.45	51.45
3.637	3.639	-0.002	5648157	1000.00	893	28.64-	68.64	57.78
Average of Peak Amounts =					900			

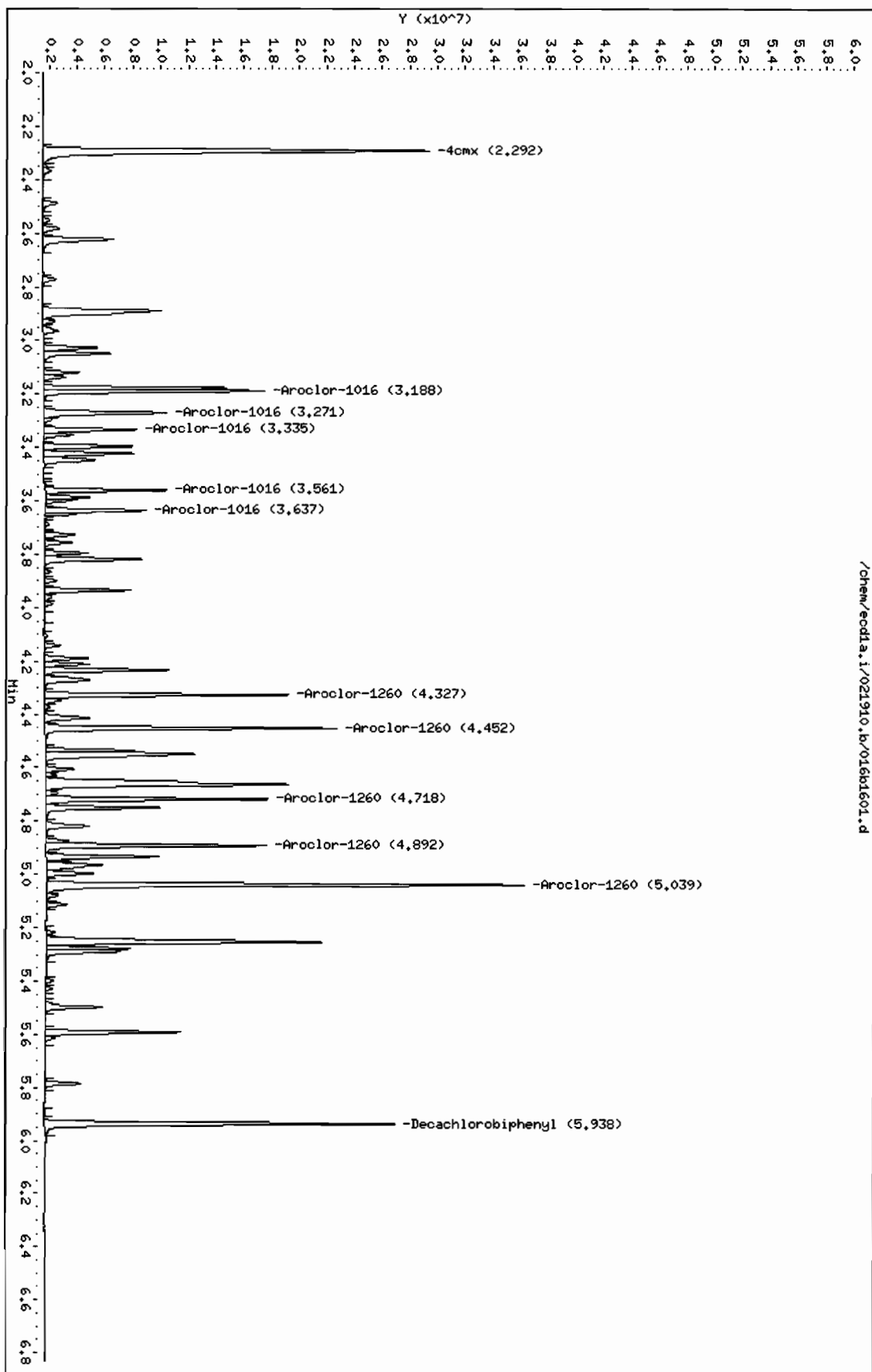
7 Aroclor-1260					CAS #: 11096-82-5			
4.327	4.330	-0.003	12467775	1000.00	990	80.00-	120.00	100.00
4.452	4.455	-0.003	15314425	1000.00	1020	102.83-	142.83	122.83
4.718	4.720	-0.002	11528968	1000.00	992	72.47-	112.47	92.47
4.892	4.894	-0.002	11960378	1000.00	994	75.93-	115.93	95.93
5.039	5.041	-0.002	26676760	1000.00	1030	193.97-	233.97	213.97
Average of Peak Amounts =					1.01e+03			

QC Flag Legend

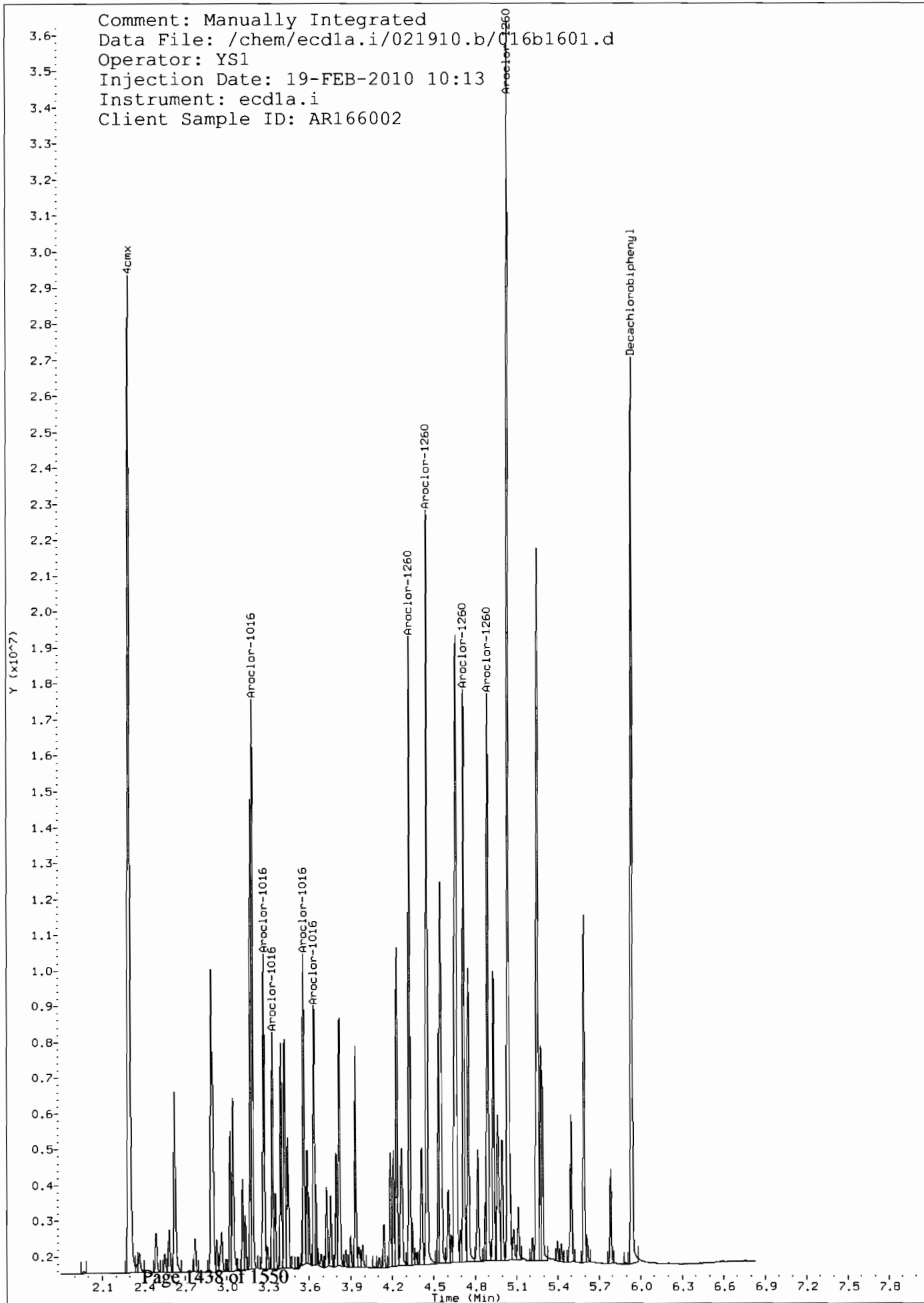
M - Compound response manually integrated.

Data File: /chem/ecdda.i/021910.b/016b1601.d
Date: 19-FEB-2010 10:13
Client ID: AR166002
Sample Info: 1MAR100203-60 02
Column phase: CLP2

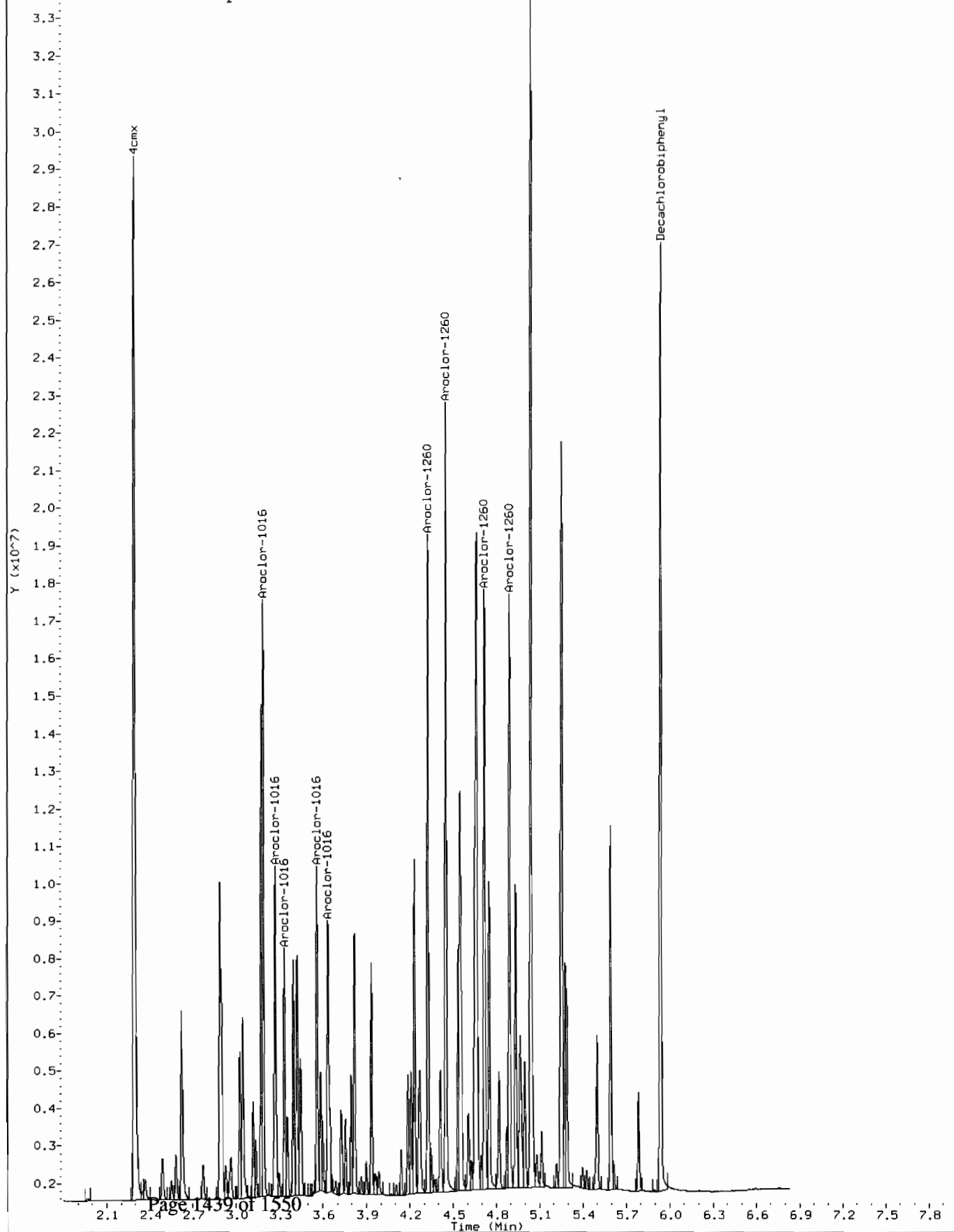
Instrument: ecdda.i
Operator: YS1
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/021910.b/C16b1601.d
Operator: YS1
Injection Date: 19-FEB-2010 10:13
Instrument: ecd1a.i
Client Sample ID: AR166002



Comment: Before manual integration
Data File: /chem/ecdl.a.i/021910.b/Orig-016b1601.d
Operator: YS1
Injection Date: 19-FEB-2010 10:13
Instrument: ecdla.i
Client Sample ID: AR166002



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021910.b/024f2401.d

Lab Smp Id: WAR100203-60 03

Client Smp ID: AR166003

Inj Date : 19-FEB-2010 11:55

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100203-60 03

Misc Info :

Comment :

Method : /chem/ecdl1a.i/021910.b/ECD1-F-8082-021110.m

Meth Date : 19-Feb-2010 12:24 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 24

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
----	--------	--------	-----------------------------	-------------------	--------------	-------

S 11 4cmx CAS #: 877-09-8						
1.961	1.960	0.001	38252980 100.000	87.5	80.00- 120.00	100.00

S 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.269	5.275	-0.006	30407788 100.000	91.2	80.00- 120.00	100.00

1 Aroclor-1016 CAS #: 12674-11-2						
2.414	2.416	-0.002	13156531 1000.00	817	80.00- 120.00	100.00
2.702	2.705	-0.003	17012352 1000.00	860	109.31- 149.31	129.31
2.782	2.785	-0.003	10771851 1000.00	827	61.87- 101.87	81.87
2.821	2.824	-0.003	6461476 1000.00	830	29.11- 69.11	49.11
3.031	3.035	-0.004	8380139 1000.00	836	43.70- 83.70	63.70
Average of Peak Amounts =				834		

7 Aroclor-1260 CAS #: 11096-82-5						
3.756	3.761	-0.005	17814646 1000.00	936	80.00- 120.00	100.00 (M)
3.919	3.924	-0.005	27075764 1000.00	955	131.99- 171.99	151.99
4.149	4.155	-0.006	16270926 1000.00	955	71.33- 111.33	91.33
4.292	4.297	-0.005	17432247 1000.00	974	77.85- 117.85	97.85
4.471	4.476	-0.005	38523143 1000.00	992	196.24- 236.24	216.24
Average of Peak Amounts =				962		

Data File: /chem/ecdl1a.i/021910.b/024f2401.d
Report Date: 19-Feb-2010 12:25

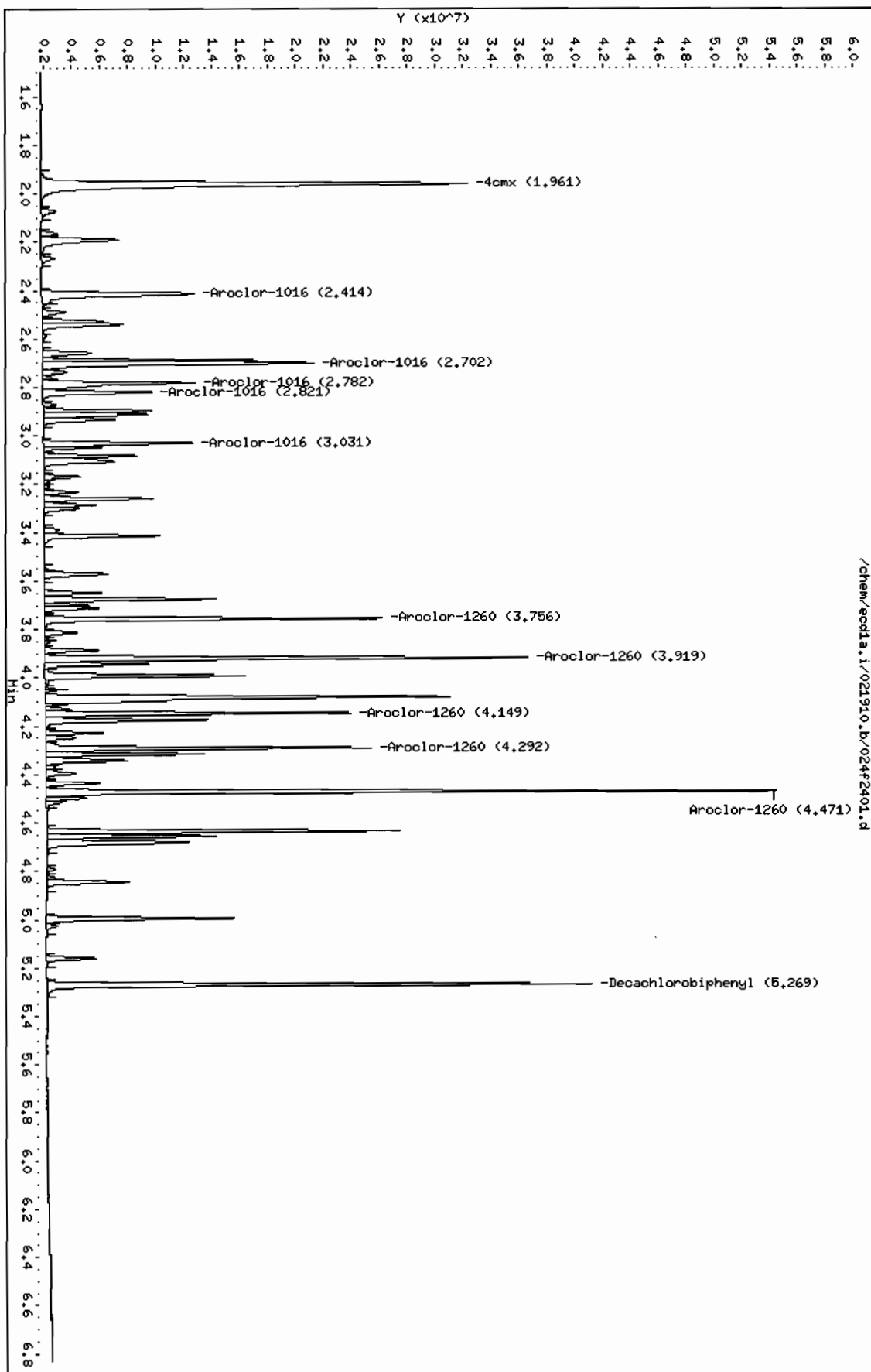
Page 2

QC Flag Legend

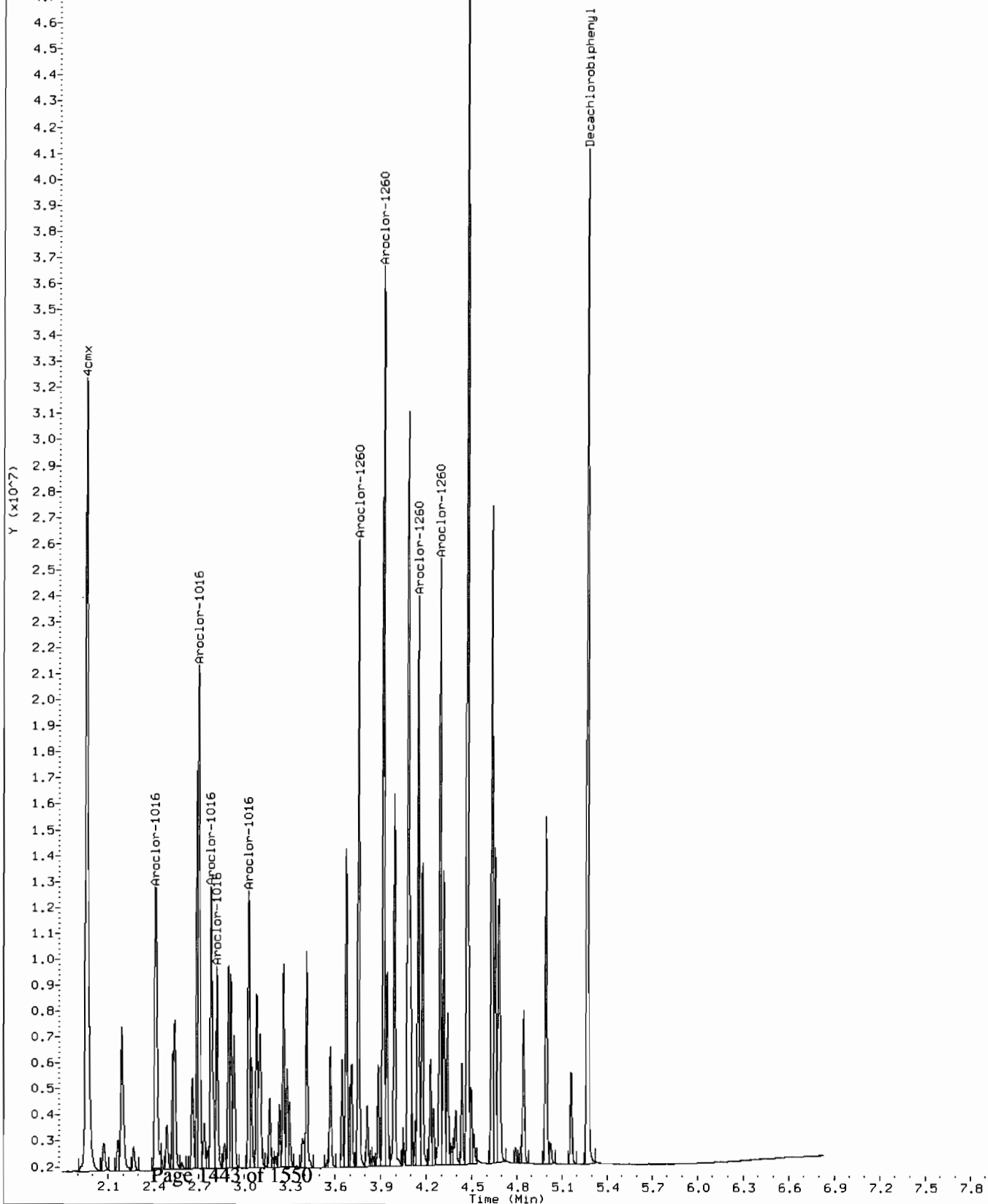
M - Compound response manually integrated.

Data File: /chem/ecdda.i/021910.b/024f2401.d
Date : 19-FEB-2010 11:55
Client ID: AR166003
Sample Info: IWR100203-60 03
Column phase: CLP1

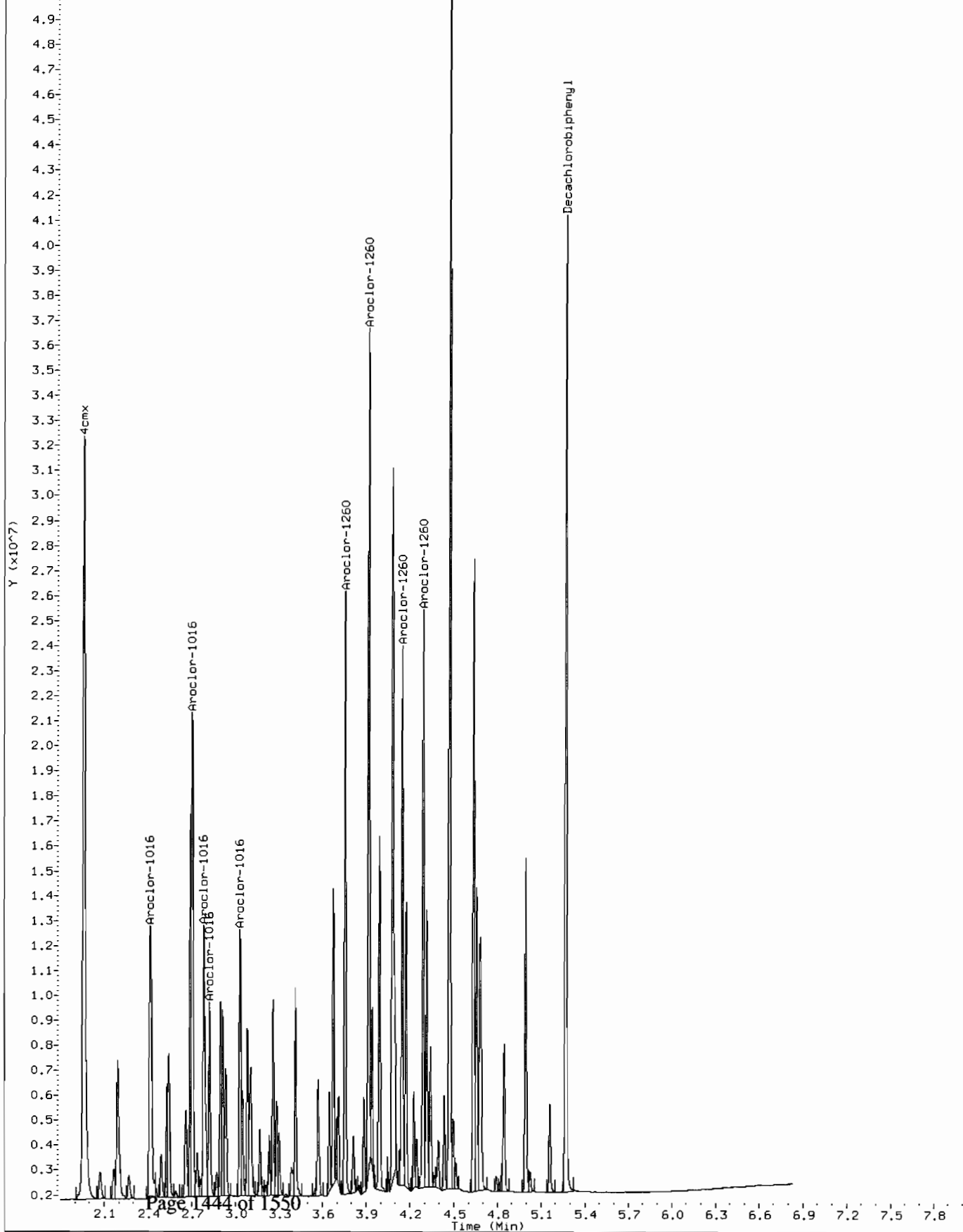
Instrument: ecdda.i
Operator: YSI
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl.a.i/021910.b/024f2401.d
Operator: YS1
Injection Date: 19-FEB-2010 11:55
Instrument: ecdl.a.i
Client Sample ID: AR166003



Comment: Before manual integration
Data File: /chem/ecdla.i/021910.b/orig-024f2401.d
Operator: YS1
Injection Date: 19-FEB-2010 11:55
Instrument: ecdla.i
Client Sample ID: AR166003



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021910.b/024b2401.d

Lab Smp Id: WAR100203-60 03

Client Smp ID: AR166003

Inj Date : 19-FEB-2010 11:55

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100203-60 03

Misc Info :

Comment :

Method : /chem/ecdla.i/021910.b/ECD1-B-8082-021110.m

Meth Date : 19-Feb-2010 12:23 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 24

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE		RATIO
<hr/>								
\$ 11 4cmx					CAS #: 877-09-8			
2.291	2.292	-0.001	27316905	100.000	95.2	80.00-	120.00	100.00
<hr/>								
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.936	5.940	-0.004	20164806	100.000	93.7	80.00-	120.00	100.00
<hr/>								
1 Aroclor-1016					CAS #: 12674-11-2			
3.186	3.190	-0.004	11920699	1000.00	959	80.00-	120.00	100.00
3.270	3.272	-0.002	7633845	1000.00	896	44.04-	84.04	64.04
3.333	3.335	-0.002	4694248	1000.00	894	19.38-	59.38	39.38
3.560	3.563	-0.003	6210555	1000.00	922	32.10-	72.10	52.10
3.636	3.639	-0.003	5726426	1000.00	905	28.04-	68.04	48.04
Average of Peak Amounts =					915			
<hr/>								
7 Aroclor-1260					CAS #: 11096-82-5			
4.326	4.330	-0.004	12508798	1000.00	993	80.00-	120.00	100.00
4.451	4.455	-0.004	15296483	1000.00	1020	102.29-	142.29	122.29
4.716	4.720	-0.004	11604339	1000.00	999	72.77-	112.77	92.77
4.891	4.894	-0.003	11969239	1000.00	995	75.69-	115.69	95.69
5.037	5.041	-0.004	26696920	1000.00	1030	193.43-	233.43	213.43
Average of Peak Amounts =					1.01e+03			

Data File: /chem/ecdl.a.i/021910.b/024b2401.d

Date: 19-FEB-2010 11:55

Client ID: AR166003

Sample Info: IMAF100203-60 03

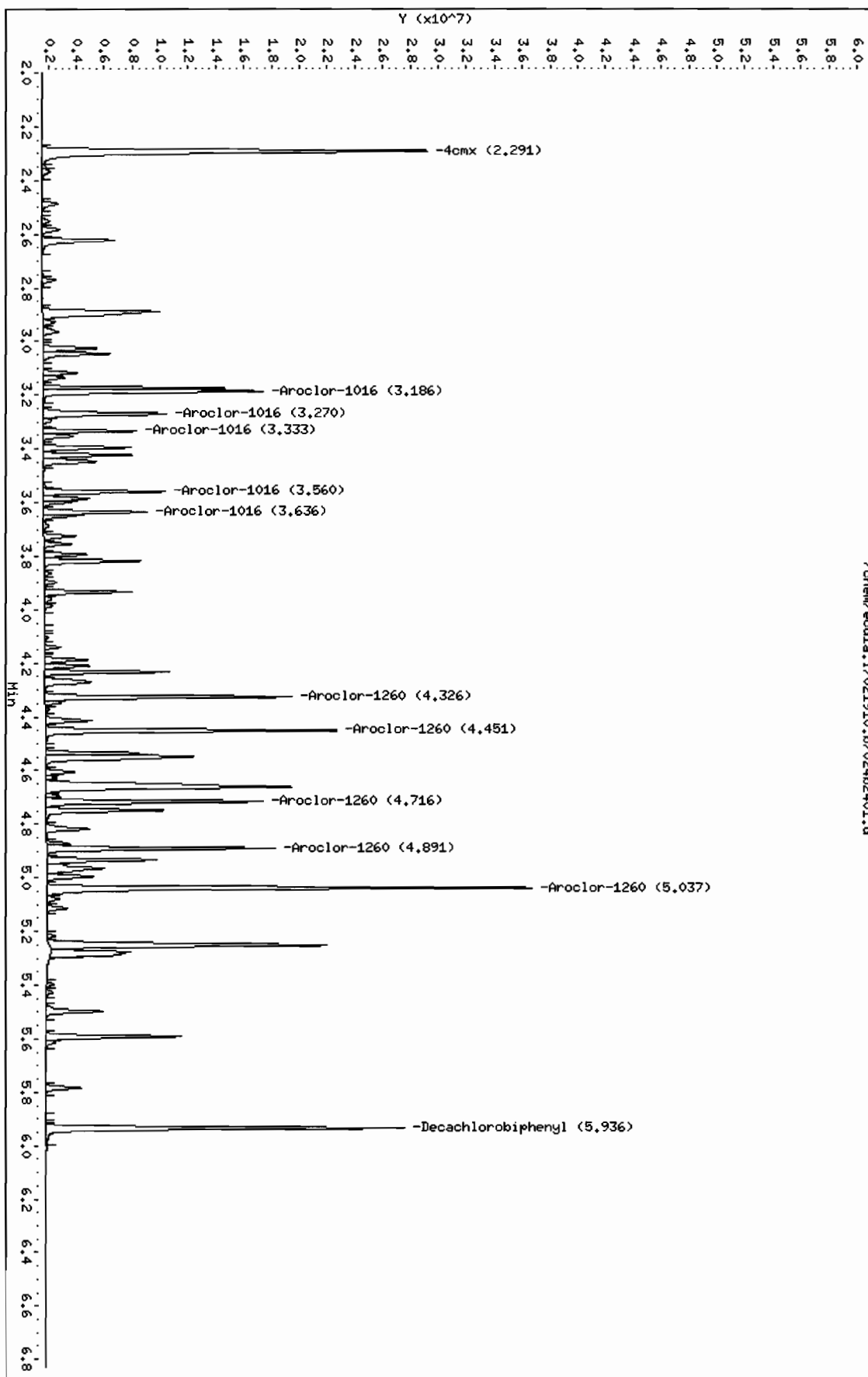
Page 1

Column phase: CLP2

Instrument: ecdl.a.i

Operator: YSL

Column diameter: 0.25



8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/10/10 02/10/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 1.96			DCB: 5.28			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #	
01	PIBLK01	WAR100105-99	02/10/10	2048	1.96	5.28
02	AR166001	WAR100210-01	02/10/10	2058	1.96	5.28
03	AR166002	WAR100210-02	02/10/10	2109	1.96	5.28
04	AR166003	WAR100210-03	02/10/10	2119	1.96	5.28
05	AR166004	WAR100210-04	02/10/10	2130	1.96	5.28
06	AR166005	IAR100104-01	02/10/10	2140	1.96	5.28
07	AR166001	WAR100203-60	02/10/10	2151	1.96	5.28
08	AR124201	WAR100210-05	02/10/10	2201		
09	AR124202	WAR100210-06	02/10/10	2212		
10	AR124203	WAR100210-07	02/10/10	2222		
11	AR124204	WAR100210-08	02/10/10	2233		
12	AR124205	IAR091111-01	02/10/10	2243		
13	AR124201	WAR091217-42	02/10/10	2254		
14	AR124801	WAR100210-09	02/10/10	2304		
15	AR124802	WAR100210-10	02/10/10	2315		
16	AR124803	WAR100210-11	02/10/10	2325		
17	AR124804	WAR100210-12	02/10/10	2336		
18	AR124805	IAR091027-02	02/10/10	2346		
19	AR124801	WAR091217-48	02/10/10	2357		
20	PIBLK02	WAR100105-99	02/11/10	0007	1.96	5.28
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/10/10 02/10/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.29			DCB: 5.94		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100105-99	02/10/10	2048	2.29 5.95
02	AR166001	WAR100210-01	02/10/10	2058	2.29 5.94
03	AR166002	WAR100210-02	02/10/10	2109	2.29 5.94
04	AR166003	WAR100210-03	02/10/10	2119	2.29 5.94
05	AR166004	WAR100210-04	02/10/10	2130	2.29 5.94
06	AR166005	IAR100104-01	02/10/10	2140	2.29 5.94
07	AR166001	WAR100203-60	02/10/10	2151	2.29 5.94
08	AR124201	WAR100210-05	02/10/10	2201	
09	AR124202	WAR100210-06	02/10/10	2212	
10	AR124203	WAR100210-07	02/10/10	2222	
11	AR124204	WAR100210-08	02/10/10	2233	
12	AR124205	IAR091111-01	02/10/10	2243	
13	AR124201	WAR091217-42	02/10/10	2254	
14	AR124801	WAR100210-09	02/10/10	2304	
15	AR124802	WAR100210-10	02/10/10	2315	
16	AR124803	WAR100210-11	02/10/10	2325	
17	AR124804	WAR100210-12	02/10/10	2336	
18	AR124805	IAR091027-02	02/10/10	2346	
19	AR124801	WAR091217-48	02/10/10	2357	
20	PIBLK02	WAR100105-99	02/11/10	0007	2.29 5.94
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/10/10 02/10/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 1.96				DCB: 5.28			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #		
01	PIBLK01	WAR100105-99	02/15/10	0713	1.96	5.28	
02	AR166001	WAR100203-60	02/15/10	0724	1.96	5.28	
03	AR125401	WAR091216-54	02/15/10	0734			
04	AR124201	WAR091217-42	02/15/10	0745			
05	AR124801	WAR091217-48	02/15/10	0755			
06	AR123201	WAR100104-32	02/15/10	0806			
07	AR122101	WAR100104-21	02/15/10	0816			
08	AR126201	WAR100104-62	02/15/10	0827			
09	AR126801	WAR100107-68	02/15/10	0837			
10	DDTANALOGSTD	WAR091219-DD	02/15/10	0848			
11	PIBLK02	WAR100105-99	02/15/10	0859	1.96	5.28	
12	ZZZZZ	ZZZZZ	02/15/10	0909	1.96	5.27	
13	ZZZZZ	ZZZZZ	02/15/10	0920	1.96	5.27	
14	ZZZZZ	ZZZZZ	02/15/10	0930	1.96	5.28	
15	ZZZZZ	ZZZZZ	02/15/10	0941	1.96	5.28	
16	ZZZZZ	ZZZZZ	02/15/10	0951	1.96	5.28	
17	ZZZZZ	ZZZZZ	02/15/10	1002	1.96	5.28	
18	AR166002	WAR100203-60	02/15/10	1013	1.96	5.28	
19	PIBLK03	WAR100105-99	02/15/10	1023	1.96	5.28	
20	PBLK01	1202040495	02/15/10	1034	1.96	5.28	
21	PBLK01LCS	1202040496	02/15/10	1044	1.96	5.28	
22	ZZZZZ	ZZZZZ	02/15/10	1055	1.96	5.28	
23	ZZZZZ	ZZZZZ	02/15/10	1105	1.96	5.27	
24	ZZZZZ	ZZZZZ	02/15/10	1116	1.96	5.27	
25	ZZZZZ	ZZZZZ	02/15/10	1126	1.96	5.27	
26	ZZZZZ	ZZZZZ	02/15/10	1137	1.96	5.28	
27	ZZZZZ	ZZZZZ	02/15/10	1147	1.96	5.28	
28	ZZZZZ	ZZZZZ	02/15/10	1158	1.96	5.28	
29	ZZZZZ	ZZZZZ	02/15/10	1211	1.96	5.27	
30	AR166003	WAR100203-60	02/15/10	1223	1.96	5.27	
31	PIBLK04	WAR100105-99	02/15/10	1234	1.96	5.28	
32	ZZZZZ	ZZZZZ	02/15/10	1244	1.96	5.28	

QC LIMITS
S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/10/10 02/10/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 1.96			DCB: 5.28		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	ZZZZZ	02/15/10	1255	1.96	5.27
02	ZZZZZ	02/15/10	1305	1.96	5.28
03	ZZZZZ	02/15/10	1316	1.96	5.27
04	ZZZZZ	02/15/10	1326	1.96	5.28
05	ZZZZZ	02/15/10	1337	1.96	5.27
06	ZZZZZ	02/15/10	1347	1.96	5.28
07	RE15-10-8336	246434011	02/15/10	1358	5.28
08	ZZZZZ	ZZZZZ	02/15/10	1408	5.28
09	AR166004	WAR100203-60	02/15/10	1421	5.27
10	PIBLK05	WAR100105-99	02/15/10	1432	5.28
11	RE15-10-8337	246434013	02/15/10	1442	5.28
12	RE15-10-8375	246434014	02/15/10	1453	5.28
13	RE15-10-8374	246434015	02/15/10	1505	5.27
14	AR166005	WAR100203-60	02/15/10	1518	5.27
15	PIBLK06	WAR100105-99	02/15/10	1528	5.27
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/10/10 02/10/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.29			DCB: 5.94			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	SI RT #	DCB RT #	
01	PIBLK01	WAR100105-99	02/15/10	0713	2.29	5.94
02	AR166001	WAR100203-60	02/15/10	0724	2.29	5.94
03	AR125401	WAR091216-54	02/15/10	0734		
04	AR124201	WAR091217-42	02/15/10	0745		
05	AR124801	WAR091217-48	02/15/10	0755		
06	AR123201	WAR100104-32	02/15/10	0806		
07	AR122101	WAR100104-21	02/15/10	0816		
08	AR126201	WAR100104-62	02/15/10	0827		
09	AR126801	WAR100107-68	02/15/10	0837		
10	DDTANALOGSTD	WAR091219-DD	02/15/10	0848		
11	PIBLK02	WAR100105-99	02/15/10	0859	2.29	5.94
12	ZZZZZ	ZZZZZ	02/15/10	0909	2.29	5.94
13	ZZZZZ	ZZZZZ	02/15/10	0920	2.29	5.94
14	ZZZZZ	ZZZZZ	02/15/10	0930	2.30	5.94
15	ZZZZZ	ZZZZZ	02/15/10	0941	2.30	5.94
16	ZZZZZ	ZZZZZ	02/15/10	0951	2.29	5.94
17	ZZZZZ	ZZZZZ	02/15/10	1002	2.29	5.94
18	AR166002	WAR100203-60	02/15/10	1013	2.29	5.94
19	PIBLK03	WAR100105-99	02/15/10	1023	2.29	5.94
20	PBLK01	1202040495	02/15/10	1034	2.29	5.94
21	PBLK01LCS	1202040496	02/15/10	1044	2.29	5.94
22	ZZZZZ	ZZZZZ	02/15/10	1055	2.29	5.94
23	ZZZZZ	ZZZZZ	02/15/10	1105	2.29	5.94
24	ZZZZZ	ZZZZZ	02/15/10	1116	2.29	5.94
25	ZZZZZ	ZZZZZ	02/15/10	1126	2.29	5.94
26	ZZZZZ	ZZZZZ	02/15/10	1137	2.29	5.94
27	ZZZZZ	ZZZZZ	02/15/10	1147	2.29	5.94
28	ZZZZZ	ZZZZZ	02/15/10	1158	2.29	5.94
29	ZZZZZ	ZZZZZ	02/15/10	1211	2.29	5.94
30	AR166003	WAR100203-60	02/15/10	1223	2.29	5.94
31	PIBLK04	WAR100105-99	02/15/10	1234	2.29	5.94
32	ZZZZZ	ZZZZZ	02/15/10	1244	2.29	5.94

QC LIMITS
S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/10/10 02/10/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.29			DCB: 5.94			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT
=====	=====	=====	=====	=====		=====
01	ZZZZZ	ZZZZZ	02/15/10	1255	2.29	5.94
02	ZZZZZ	ZZZZZ	02/15/10	1305	2.29	5.94
03	ZZZZZ	ZZZZZ	02/15/10	1316	2.29	5.94
04	ZZZZZ	ZZZZZ	02/15/10	1326	2.29	5.94
05	ZZZZZ	ZZZZZ	02/15/10	1337	2.29	5.94
06	ZZZZZ	ZZZZZ	02/15/10	1347	2.29	5.94
07	RE15-10-8336	246434011	02/15/10	1358	2.29	5.94
08	ZZZZZ	ZZZZZ	02/15/10	1408	2.29	5.94
09	AR166004	WAR100203-60	02/15/10	1421	2.29	5.94
10	PIBLK05	WAR100105-99	02/15/10	1431	2.29	5.94
11	RE15-10-8337	246434013	02/15/10	1442	2.29	5.94
12	RE15-10-8375	246434014	02/15/10	1453	2.29	5.94
13	RE15-10-8374	246434015	02/15/10	1505	2.29	5.94
14	AR166005	WAR100203-60	02/15/10	1518	2.29	5.94
15	PIBLK06	WAR100105-99	02/15/10	1528	2.29	5.94
16						
17						
18						
19						
20						
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25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/10/10 02/10/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 1.96			DCB: 5.27			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #	
01	PIBLK01	WAR100105-99	02/17/10	0636	1.96	5.27
02	AR166001	WAR100203-60	02/17/10	0647	1.96	5.27
03	AR125401	WAR091216-54	02/17/10	0657		
04	AR124201	WAR091217-42	02/17/10	0708		
05	AR124801	WAR091217-48	02/17/10	0718		
06	AR126801	WAR100107-68	02/17/10	0729		
07	AR123201	WAR100104-32	02/17/10	0739		
08	AR122101	WAR100104-21	02/17/10	0750		
09	AR126201	WAR100104-62	02/17/10	0800		
10	DDTANALOGSTD	WAR091219-DD	02/17/10	0811		
11	PIBLK02	WAR100105-99	02/17/10	0821	1.96	5.28
12	PBLK02	1202044726	02/17/10	0832	1.96	5.28
13	PBLK02LCS	1202044727	02/17/10	0845	1.96	5.27
14	PBLK02LCSD	1202044728	02/17/10	0857	1.96	5.27
15	ZZZZZ	ZZZZZ	02/17/10	0910	1.96	5.27
16	RE15-10-8339	246434012	02/17/10	0922	1.96	5.27
17	AR166002	WAR100203-60	02/17/10	0935	1.96	5.27
18	PIBLK03	WAR100105-99	02/17/10	0946	1.96	5.27
19	ZZZZZ	ZZZZZ	02/17/10	0956	1.96	5.27
20	ZZZZZ	ZZZZZ	02/17/10	1007	1.96	5.28
21	ZZZZZ	ZZZZZ	02/17/10	1017	1.96	5.28
22	ZZZZZ	ZZZZZ	02/17/10	1028	1.96	5.28
23	ZZZZZ	ZZZZZ	02/17/10	1041	1.94	5.27
24	ZZZZZ	ZZZZZ	02/17/10	1053	1.97	5.27
25	ZZZZZ	ZZZZZ	02/17/10	1106	1.96	5.27
26	ZZZZZ	ZZZZZ	02/17/10	1118	1.96	5.27
27	ZZZZZ	ZZZZZ	02/17/10	1131	1.96	5.27
28	ZZZZZ	ZZZZZ	02/17/10	1144	1.96	5.27
29	AR166003	WAR100203-60	02/17/10	1207	1.96	5.27
30	PIBLK04	WAR100105-99	02/17/10	1217	1.96	5.27
31	ZZZZZ	ZZZZZ	02/17/10	1228	1.96	5.27
32	ZZZZZ	ZZZZZ	02/17/10	1240	1.96	5.27

QC LIMITS
S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/10/10 02/10/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.29			DCB: 5.94		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100105-99	02/17/10	0636	
02	AR166001	WAR100203-60	02/17/10	0647	
03	AR125401	WAR091216-54	02/17/10	0657	
04	AR124201	WAR091217-42	02/17/10	0708	
05	AR124801	WAR091217-48	02/17/10	0718	
06	AR126801	WAR100107-68	02/17/10	0729	
07	AR123201	WAR100104-32	02/17/10	0739	
08	AR122101	WAR100104-21	02/17/10	0750	
09	AR126201	WAR100104-62	02/17/10	0800	
10	DDTANALOGSTD	WAR091219-DD	02/17/10	0811	
11	PIBLK02	WAR100105-99	02/17/10	0821	2.29 5.94
12	PBLK02	1202044726	02/17/10	0832	2.29 5.94
13	PBLK02LCS	1202044727	02/17/10	0845	2.29 5.94
14	PBLK02LCSD	1202044728	02/17/10	0857	2.29 5.94
15	ZZZZZ	ZZZZZ	02/17/10	0910	2.29 5.94
16	RE15-10-8339	246434012	02/17/10	0922	2.29 5.94
17	AR166002	WAR100203-60	02/17/10	0935	2.29 5.94
18	PIBLK03	WAR100105-99	02/17/10	0946	2.29 5.94
19	ZZZZZ	ZZZZZ	02/17/10	0956	2.29 5.94
20	ZZZZZ	ZZZZZ	02/17/10	1007	2.29 5.94
21	ZZZZZ	ZZZZZ	02/17/10	1017	2.29 5.94
22	ZZZZZ	ZZZZZ	02/17/10	1028	2.29 5.94
23	ZZZZZ	ZZZZZ	02/17/10	1041	2.29 5.94
24	ZZZZZ	ZZZZZ	02/17/10	1053	2.30 5.94
25	ZZZZZ	ZZZZZ	02/17/10	1106	2.30 5.94
26	ZZZZZ	ZZZZZ	02/17/10	1118	2.30 5.94
27	ZZZZZ	ZZZZZ	02/17/10	1131	2.29 5.94
28	ZZZZZ	ZZZZZ	02/17/10	1144	2.29 5.94
29	AR166003	WAR100203-60	02/17/10	1207	2.29 5.94
30	PIBLK04	WAR100105-99	02/17/10	1217	2.29 5.94
31	ZZZZZ	ZZZZZ	02/17/10	1228	2.29 5.94
32	ZZZZZ	ZZZZZ	02/17/10	1240	2.29 5.94

QC LIMITS
S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/10/10 02/10/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 1.96			DCB: 5.27		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100105-99	02/19/10 0709	1.96	5.28
02	AR166001	WAR100203-60	02/19/10 0720	1.96	5.27
03	AR125401	WAR091216-54	02/19/10 0730		
04	AR124201	WAR091217-42	02/19/10 0741		
05	AR124801	WAR091217-48	02/19/10 0815		
06	AR123201	WAR100104-32	02/19/10 0826		
07	AR122101	WAR100104-21	02/19/10 0836		
08	AR126201	WAR100104-62	02/19/10 0847		
09	AR126801	WAR100107-68	02/19/10 0857		
10	DDTANALOGSTD	WAR091219-DD	02/19/10 0908		
11	PIBLK02	WAR100105-99	02/19/10 0918	1.96	5.27
12	ZZZZZ	ZZZZZ	02/19/10 0929	1.96	5.27
13	ZZZZZ	ZZZZZ	02/19/10 0940	1.96	5.27
14	ZZZZZ	ZZZZZ	02/19/10 0950	1.96	5.27
15	ZZZZZ	ZZZZZ	02/19/10 1001	1.96	5.27
16	AR166002	WAR100203-60	02/19/10 1013	1.96	5.27
17	PIBLK03	WAR100105-99	02/19/10 1024	1.96	5.27
18	PBLK03LCS	1202045981	02/19/10 1045	1.96	5.27
19	RE15-10-8338	246434010	02/19/10 1055	1.96	5.27
20	RE15-10-8338MS	1202045982	02/19/10 1108	1.96	5.27
21	RE15-10-8338MSD	1202045983	02/19/10 1120	1.96	5.27
22	ZZZZZ	ZZZZZ	02/19/10 1133	1.96	5.27
23	AR166003	WAR100203-60	02/19/10 1155	1.96	5.27
24	PIBLK04	WAR100105-99	02/19/10 1206	1.96	5.27
25					
26					
27					
28					
29					
30					
31					
32					

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1620

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/10/10 02/10/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.29			DCB: 5.94		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100105-99	02/19/10 0709	2.29	5.94
02	AR166001	WAR100203-60	02/19/10 0720	2.29	5.94
03	AR125401	WAR091216-54	02/19/10 0730		
04	AR124201	WAR091217-42	02/19/10 0741		
05	AR124801	WAR091217-48	02/19/10 0815		
06	AR123201	WAR100104-32	02/19/10 0826		
07	AR122101	WAR100104-21	02/19/10 0836		
08	AR126201	WAR100104-62	02/19/10 0847		
09	AR126801	WAR100107-68	02/19/10 0857		
10	DDTANALOGSTD	WAR091219-DD	02/19/10 0908		
11	PIBLK02	WAR100105-99	02/19/10 0918	2.29	5.94
12	ZZZZZ	ZZZZZ	02/19/10 0929	2.29	5.94
13	ZZZZZ	ZZZZZ	02/19/10 0940	2.29	5.94
14	ZZZZZ	ZZZZZ	02/19/10 0950	2.29	5.94
15	ZZZZZ	ZZZZZ	02/19/10 1001	2.29	5.94
16	AR166002	WAR100203-60	02/19/10 1013	2.29	5.94
17	PIBLK03	WAR100105-99	02/19/10 1024	2.29	5.94
18	PBLK03LCS	1202045981	02/19/10 1045	2.29	5.94
19	RE15-10-8338	246434010	02/19/10 1055	2.29	5.94
20	RE15-10-8338MS	1202045982	02/19/10 1108	2.29	5.94
21	RE15-10-8338MSD	1202045983	02/19/10 1120	2.29	5.94
22	ZZZZZ	ZZZZZ	02/19/10 1133	2.29	5.94
23	AR166003	WAR100203-60	02/19/10 1155	2.29	5.94
24	PIBLK04	WAR100105-99	02/19/10 1206	2.29	5.94
25					
26					
27					
28					
29					
30					
31					
32					

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Identification Summary

Page 1 of 1

SDG Number: 10-1620

Client ID: LCS for batch 952047

Lab Sample ID: 1202040496

Data File: 021f2101.d

Data File: 021b2101.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 15-FEB-10 10:44

Analyzed: 15-FEB-10 10:44

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							5.24
Column 1	1	2.42	2.39 – 2.45	22.8	23.1	ug/kg	
	2	2.71	2.68 – 2.74	23		ug/kg	
	3	2.79	2.76 – 2.82	23		ug/kg	
	4	2.83	2.79 – 2.85	22.9		ug/kg	
	5	3.04	3.01 – 3.07	23.6		ug/kg	
Column 2	1	3.19	3.16 – 3.22	21.7	21.9	ug/kg	
	2	3.27	3.24 – 3.3	22		ug/kg	
	3	3.34	3.31 – 3.37	21.6		ug/kg	
	4	3.56	3.53 – 3.59	22.3		ug/kg	
	5	3.64	3.61 – 3.67	21.8		ug/kg	
Aroclor-1260							5.7
Column 1	1	3.76	3.73 – 3.79	25.8	26.7	ug/kg	
	2	3.92	3.89 – 3.95	26.3		ug/kg	
	3	4.15	4.13 – 4.19	26.5		ug/kg	
	4	4.3	4.27 – 4.33	27.2		ug/kg	
	5	4.48	4.45 – 4.51	27.5		ug/kg	
Column 2	1	4.33	4.3 – 4.36	24.7	25.2	ug/kg	
	2	4.46	4.43 – 4.49	25.1		ug/kg	
	3	4.72	4.69 – 4.75	24.9		ug/kg	
	4	4.9	4.87 – 4.93	25.2		ug/kg	
	5	5.04	5.01 – 5.07	26		ug/kg	

Identification Summary

Page 1 of 1

SDG Number: 10-1620

Client ID: LCS for batch 953770

Lab Sample ID: 1202044727

Data File: 013f1301.d

Data File: 013b1301.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 17-FEB-10 08:45

Analyzed: 17-FEB-10 08:45

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							1.28
Column 1	1	2.42	2.39 - 2.45	19.4		ug/kg	
	2	2.7	2.67 - 2.73	19.7		ug/kg	
	3	2.78	2.75 - 2.81	20.2		ug/kg	
	4	2.82	2.79 - 2.85	18.9		ug/kg	
	5	3.03	3 - 3.06	19.8		ug/kg	
					19.6		
Column 2	1	3.19	3.16 - 3.22	19.9		ug/kg	
	2	3.27	3.24 - 3.3	19.9		ug/kg	
	3	3.34	3.31 - 3.37	19.6		ug/kg	
	4	3.56	3.53 - 3.59	20		ug/kg	
	5	3.64	3.61 - 3.67	19.8		ug/kg	
					19.8		
Aroclor-1260							1.12
Column 1	1	3.76	3.73 - 3.79	22.6		ug/kg	
	2	3.92	3.89 - 3.95	23.3		ug/kg	
	3	4.15	4.12 - 4.18	23.3		ug/kg	
	4	4.3	4.27 - 4.33	20.1		ug/kg	
	5	4.48	4.45 - 4.51	24.5		ug/kg	
					22.7		
Column 2	1	4.33	4.3 - 4.36	22.2		ug/kg	
	2	4.45	4.42 - 4.48	22.9		ug/kg	
	3	4.72	4.69 - 4.75	22.7		ug/kg	
	4	4.89	4.86 - 4.92	22.9		ug/kg	
	5	5.04	5.01 - 5.07	24.2		ug/kg	
					23		

Identification Summary

Page 1 of 1

SDG Number: 10-1620

Client ID: LCS for batch 954434

Lab Sample ID: 1202045981

Data File: 019f1901.d

Data File: 019b1901.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 19-FEB-10 10:45

Analyzed: 19-FEB-10 10:45

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							9.85
Column 1	1	2.42	2.39 – 2.45	18.6		ug/kg	
	2	2.71	2.68 – 2.74	19		ug/kg	
	3	2.79	2.76 – 2.82	18.9		ug/kg	
	4	2.82	2.79 – 2.85	18.8		ug/kg	
	5	3.03	3 – 3.06	18.9		ug/kg	
					18.8		
Column 2	1	3.19	3.16 – 3.22	21.5		ug/kg	
	2	3.27	3.24 – 3.3	20.7		ug/kg	
	3	3.34	3.31 – 3.37	20.2		ug/kg	
	4	3.56	3.53 – 3.59	20.7		ug/kg	
	5	3.64	3.61 – 3.67	20.9		ug/kg	
					20.8		
Aroclor-1260							6.28
Column 1	1	3.76	3.73 – 3.79	21.9		ug/kg	
	2	3.92	3.89 – 3.95	22.4		ug/kg	
	3	4.15	4.12 – 4.18	22.6		ug/kg	
	4	4.3	4.27 – 4.33	22.8		ug/kg	
	5	4.48	4.45 – 4.51	24.1		ug/kg	
					22.8		
Column 2	1	4.33	4.3 – 4.36	23.4		ug/kg	
	2	4.45	4.42 – 4.48	24.1		ug/kg	
	3	4.72	4.69 – 4.75	24		ug/kg	
	4	4.89	4.86 – 4.92	24.3		ug/kg	
	5	5.04	5.01 – 5.07	25.4		ug/kg	
					24.2		

Identification Summary

Page 1 of 1

SDG Number: 10-1620

Client ID: LCSD for batch 953770

Lab Sample ID: 1202044728

Data File: 014f1401.d

Data File: 014b1401.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 17-FEB-10 08:57

Analyzed: 17-FEB-10 08:57

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							1.68
Column 1	1	2.42	2.39 – 2.45	19.4		ug/kg	
	2	2.7	2.67 – 2.73	20.2		ug/kg	
	3	2.79	2.75 – 2.81	19.9		ug/kg	
	4	2.82	2.79 – 2.85	19		ug/kg	
	5	3.03	3 – 3.06	20		ug/kg	
					19.7		
Column 2	1	3.19	3.16 – 3.22	20.6		ug/kg	
	2	3.27	3.24 – 3.3	19.8		ug/kg	
	3	3.34	3.31 – 3.37	19.7		ug/kg	
	4	3.56	3.53 – 3.59	20.1		ug/kg	
	5	3.64	3.61 – 3.67	19.9		ug/kg	
					20		
Aroclor-1260							.905
Column 1	1	3.76	3.73 – 3.79	22.7		ug/kg	
	2	3.92	3.89 – 3.95	23.4		ug/kg	
	3	4.15	4.12 – 4.18	23.4		ug/kg	
	4	4.29	4.27 – 4.33	21		ug/kg	
	5	4.47	4.45 – 4.51	24.7		ug/kg	
					23.1		
Column 2	1	4.33	4.3 – 4.36	22.5		ug/kg	
	2	4.45	4.42 – 4.48	23.2		ug/kg	
	3	4.72	4.69 – 4.75	23		ug/kg	
	4	4.89	4.86 – 4.92	23.2		ug/kg	
	5	5.04	5.01 – 5.07	24.4		ug/kg	
					23.3		

Identification Summary

Page 1 of 1

SDG Number: 10-1620

Client ID: RE15-10-8338MS

Lab Sample ID: 1202045982

Data File: 021f2101.d

Data File: 021b2101.d

Inst: ECD1A.J_1

Inst: ECD1A.J_2

Column: CLP1

Column: CLP2

Analyzed: 19-FEB-10 11:08

Analyzed: 19-FEB-10 11:08

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							10.3
Column 1	1	2.42	2.39 - 2.45	19.8		ug/kg	
	2	2.7	2.68 - 2.74	22.2		ug/kg	
	3	2.78	2.76 - 2.82	19.6		ug/kg	
	4	2.82	2.79 - 2.85	18.2		ug/kg	
	5	3.03	3 - 3.06	22.5		ug/kg	
					20.5		
Column 2	1	3.19	3.16 - 3.22	22.7		ug/kg	
	2	3.27	3.24 - 3.3	22.8		ug/kg	
	3	3.33	3.31 - 3.37	22.6		ug/kg	
	4	3.56	3.53 - 3.59	25.5		ug/kg	
	5	3.64	3.61 - 3.67	19.9		ug/kg	
					22.7		
Aroclor-1260							10.3
Column 1	1	3.76	3.73 - 3.79	28.5		ug/kg	
	2	3.92	3.89 - 3.95	22.8		ug/kg	
	3	4.15	4.12 - 4.18	22.1		ug/kg	
	4	4.29	4.27 - 4.33	25.3		ug/kg	
	5	4.47	4.45 - 4.51	26.3		ug/kg	
					25		
Column 2	1	4.33	4.3 - 4.36	28.9		ug/kg	
	2	4.45	4.42 - 4.48	26.1		ug/kg	
	3	4.72	4.69 - 4.75	27.1		ug/kg	
	4	4.89	4.86 - 4.92	27.7		ug/kg	
	5	5.04	5.01 - 5.07	28.7		ug/kg	
					27.7		

Identification Summary

Page 1 of 1

SDG Number: 10-1620

Client ID: RE15-10-8338MSD

Lab Sample ID: 1202045983

Data File: 022f2201.d

Data File: 022b2201.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 19-FEB-10 11:20

Analyzed: 19-FEB-10 11:20

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							14.9
<i>Column 1</i>	1	2.42	2.39 – 2.45	20.8		ug/kg	
	2	2.7	2.68 – 2.74	22.6		ug/kg	
	3	2.78	2.76 – 2.82	19.2		ug/kg	
	4	2.82	2.79 – 2.85	16.4		ug/kg	
	5	3.03	3 – 3.06	21		ug/kg	
					20		
<i>Column 2</i>	1	3.19	3.16 – 3.22	22		ug/kg	
	2	3.27	3.24 – 3.3	23.1		ug/kg	
	3	3.33	3.31 – 3.37	24.5		ug/kg	
	4	3.56	3.53 – 3.59	27		ug/kg	
	5	3.64	3.61 – 3.67	19.6		ug/kg	
					23.2		
Aroclor-1260							13
<i>Column 1</i>	1	3.76	3.73 – 3.79	27		ug/kg	
	2	3.92	3.89 – 3.95	21.2		ug/kg	
	3	4.15	4.12 – 4.18	20.4		ug/kg	
	4	4.29	4.27 – 4.33	24.3		ug/kg	
	5	4.47	4.45 – 4.51	25.6		ug/kg	
					23.7		
<i>Column 2</i>	1	4.33	4.3 – 4.36	26.8		ug/kg	
	2	4.45	4.42 – 4.48	24.9		ug/kg	
	3	4.72	4.69 – 4.75	26.3		ug/kg	
	4	4.89	4.86 – 4.92	28.3		ug/kg	
	5	5.04	5.01 – 5.07	28.9		ug/kg	
					27		

QUALITY CONTROL DATA

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1620

Matrix: SOIL

Lab Sample ID: 1202040495

Client Sample: QC for batch 952047

Client: LANL010

Project: QC

Client ID: MB for batch 952047

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 952059

Inst: ECD1A.I

Dilution: 1

Run Date: 02/15/2010 10:34

Analyst: YS1

Inj. Vol: 1 uL

Prep Date: 02/12/2010 12:41

Aliquot: 30 g

Final Volume: 1 mL

Data File: 020f2001-1.d

Column: 1 CLP1

Level: LOW

020b2001-1.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.33	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260	U	3.33	ug/kg	1.11	3.33	1

Data File: /chem/ecdla.i/021510.b/020f2001-3.d
Report Date: 15-Feb-2010 11:55

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021510.b/020f2001-3.d
Lab Smp Id: 1202040495 Client Smp ID: PBLK01
Inj Date : 15-FEB-2010 10:34
Operator : YS1 Inst ID: ecdla.i
Smp Info : |1202040495|1|
Misc Info : |ECD82P_1S|952059|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecdla.i/021510.b/ECD1-F-8082-021110.m
Meth Date : 15-Feb-2010 11:16 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d
Als bottle: 20 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1620.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

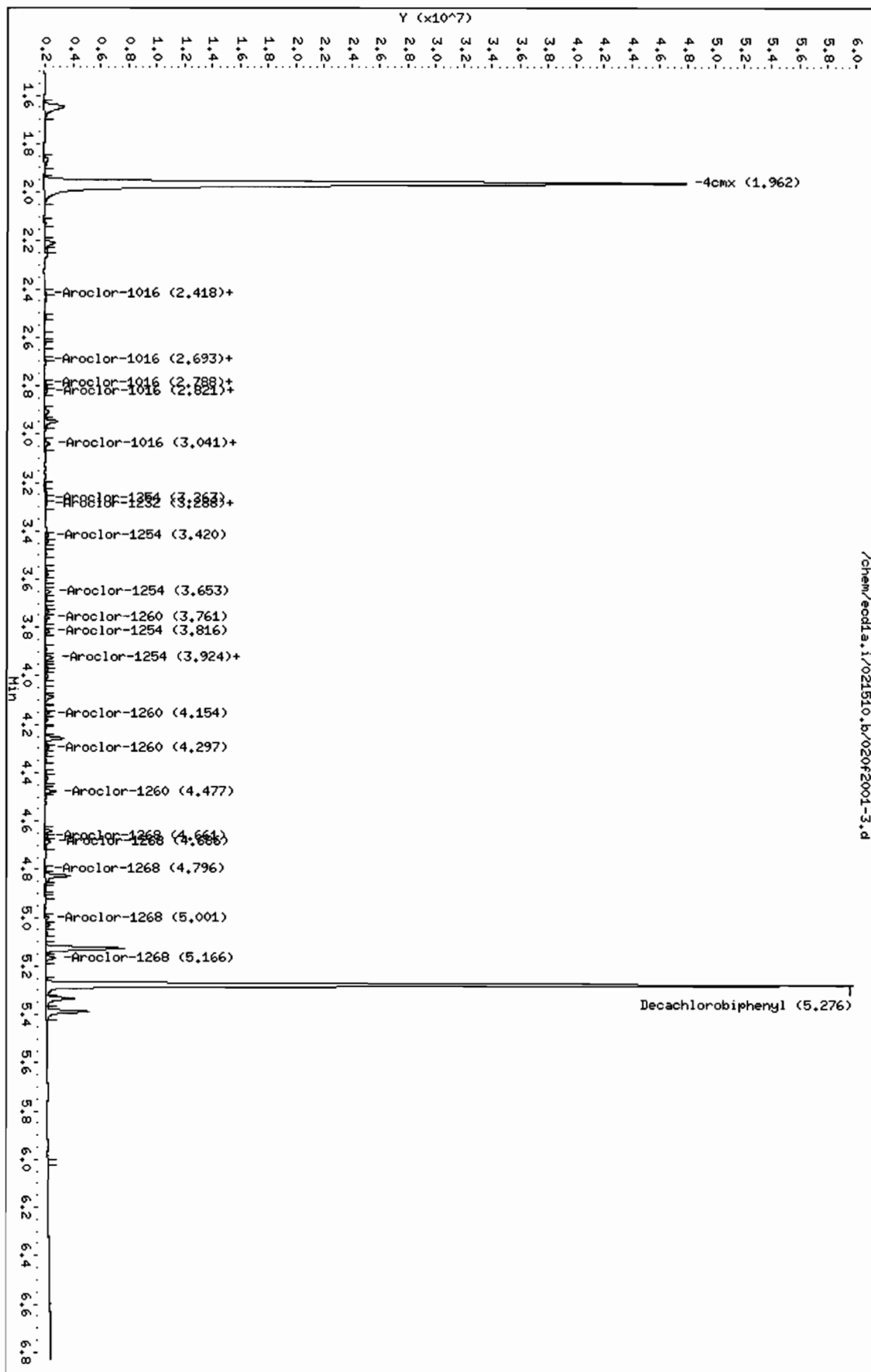
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
		ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
1.962	1.963	-0.001	57713343 132.016	4.4	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.276	5.276	0.000	43822791 131.383	4.4	80.00- 120.00	100.00

Data File: /chem/ecdl.a.i/021510.b/0202001-3.d
 Date: 15-FEB-2010 10:34
 Client ID: PLK01
 Sample Info: 1120204049511
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecdl.a.i
 Operator: YS1
 Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecd1a.i/021510.b/020b2001-3.d
 Lab Smp Id: 1202040495 Client Smp ID: PBLK01
 Inj Date : 15-FEB-2010 10:34
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202040495|1|
 Misc Info : |ECD82P_1S|952059|SVA|QC A|SOIL|MB|||
 Comment :
 Method : /chem/ecd1a.i/021510.b/ECD1-B-8082-021110.m
 Meth Date : 15-Feb-2010 11:24 yip00818 Quant Type: ESTD
 Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
 Als bottle: 20 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1620.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpclpl

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

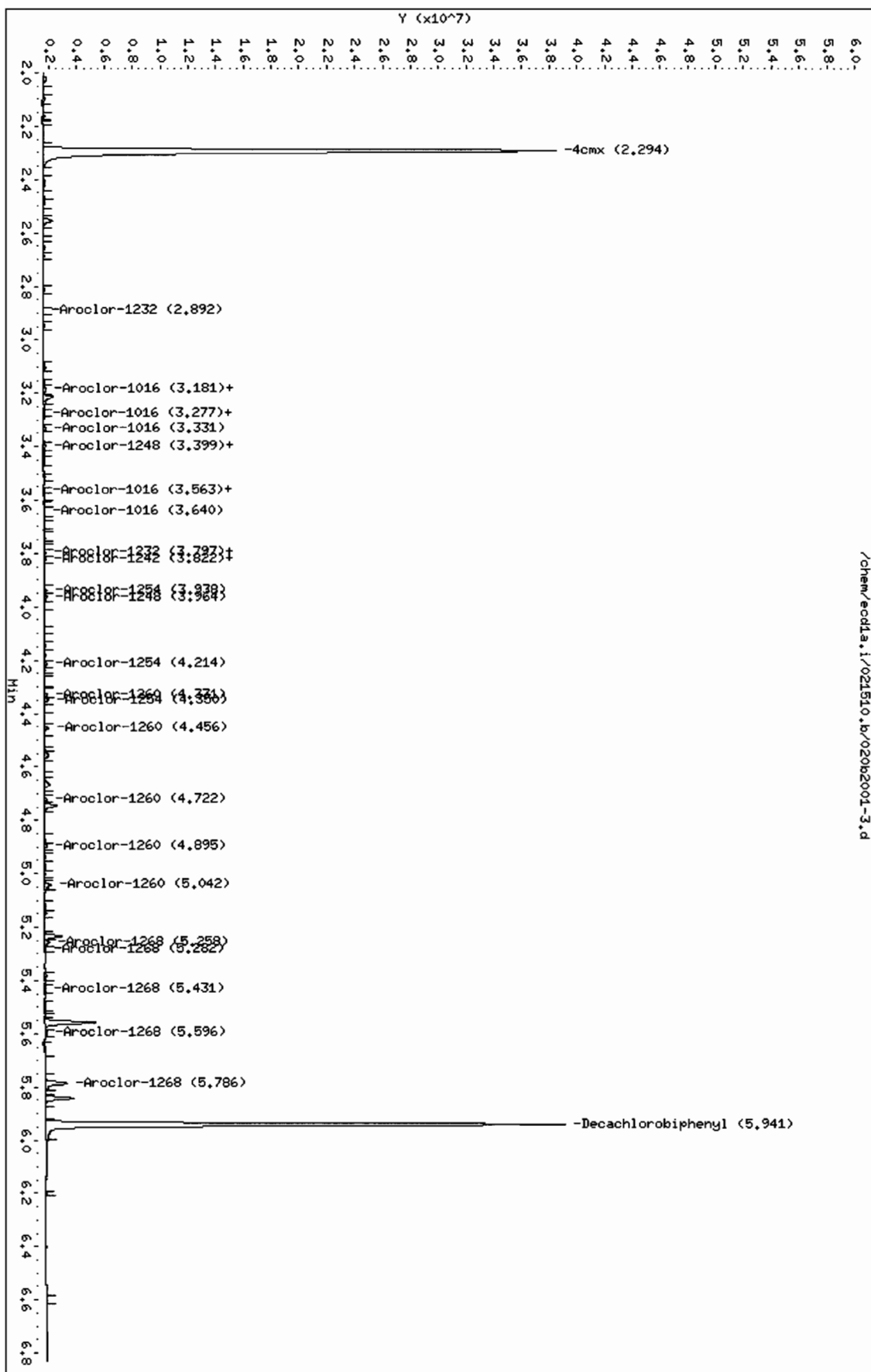
Cpnd Variable Local Compound Variable

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	==	==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
2.294	2.294	0.000	36606841	127.589	4.2	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.941	5.942	-0.001	29128844	135.423	4.5	80.00- 120.00	100.00	

Data File: /chem/ecda.i/021510.b/02062001-3.d
 Date: 15-FEB-2010 10:34
 Client ID: PLK01
 Sample Info: 1420204049511
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecda.i
 Operator: YS1
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

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SDG Number: 10-1620

Matrix: SOIL

Lab Sample ID: 1202044726

Client Sample: QC for batch 953770

Client: LANL010

Project: QC

Client ID: MB for batch 953770

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 953772

Inst: ECD1A.I

Dilution: 1

Run Date: 02/17/2010 08:32

Analyst: YS1

Inj. Vol: 1 uL

Prep Date: 02/16/2010 20:08

Aliquot: 30 g

Final Volume: 1 mL

Data File: 012f1201.d

Column: 1 CLP1

Level: LOW

012b1201.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.33	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260	U	3.33	ug/kg	1.11	3.33	1

Report Date: 17-Feb-2010 10:49

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021710.b/012f1201.d

Lab Smp Id: 1202044726

Client Smp ID: PBLK02

Inj Date : 17-FEB-2010 08:32

Operator : YS1

Inst ID: ecdla.i

Smp Info : |1202044726|1|

Misc Info : |ECD82P_1S|953772|SVA|QC A|SOIL|MB|||

Comment :

Method : /chem/ecdla.i/021710.b/ECD1-F-8082-021110.m

Meth Date : 17-Feb-2010 10:07 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 12

QC Sample: BLANK

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1620.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

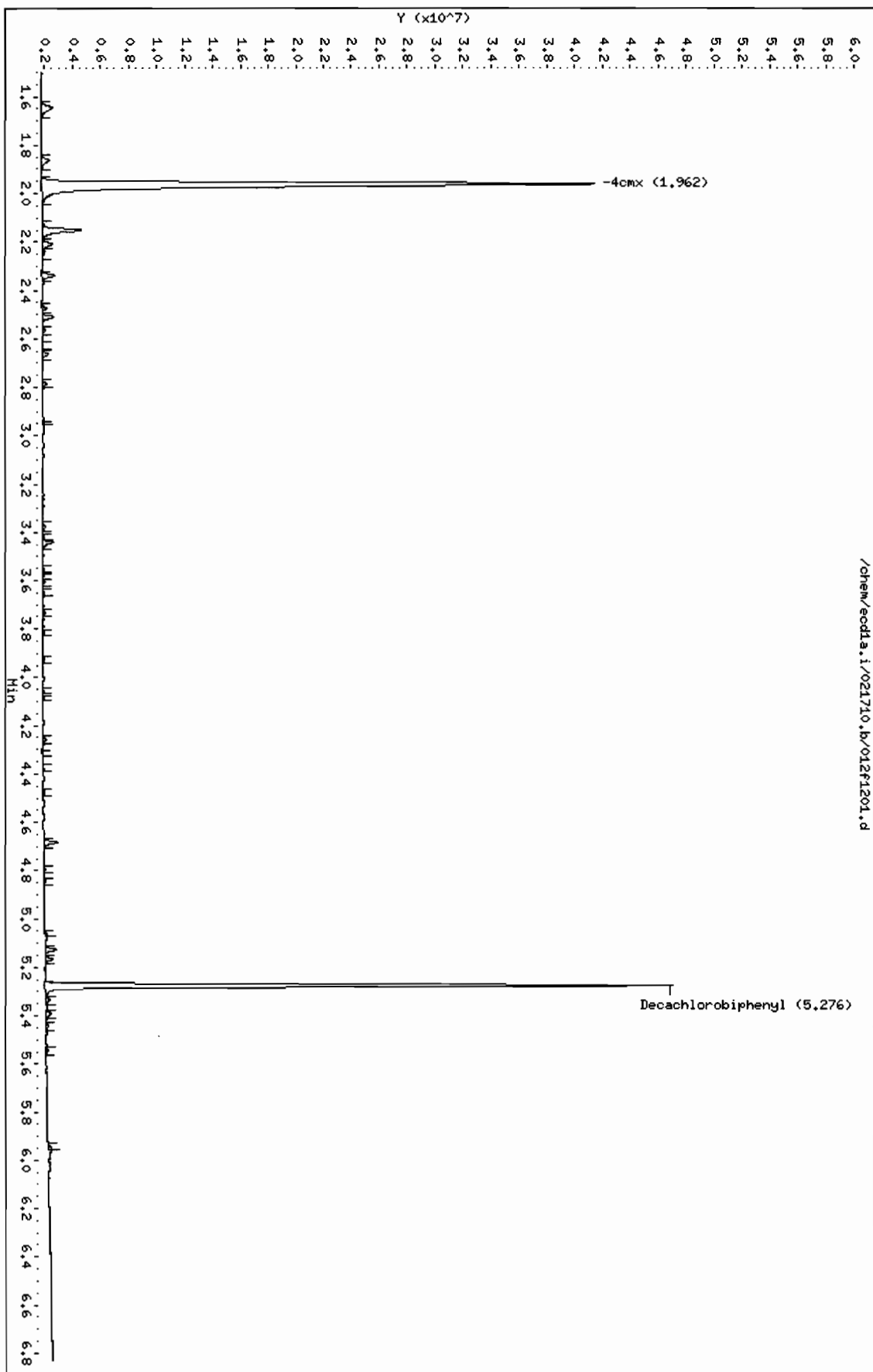
CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8	
1.962	1.961	0.001	49916278 114.180	3.8	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.276	5.275	0.001	34484135 103.385	3.4	80.00- 120.00	100.00

Data File: /chem/ecda.i/021710.b/012f1201.d
Date: 17-FEB-2010 08:32
Client ID: PLK02
Sample Info: 1120204472611
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecda.i
Operator: YS1
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecd1a.i/021710.b/012b1201.d
 Lab Smp Id: 1202044726 Client Smp ID: PBLK02
 Inj Date : 17-FEB-2010 08:32
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202044726|1|
 Misc Info : |ECD82P_1S|953772|SVA|QC A|SOIL|MB|||
 Comment :
 Method : /chem/ecd1a.i/021710.b/ECD1-B-8082-021110.m
 Meth Date : 17-Feb-2010 10:07 yip00818 Quant Type: ESTD
 Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
 Als bottle: 12 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1620.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpclp1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

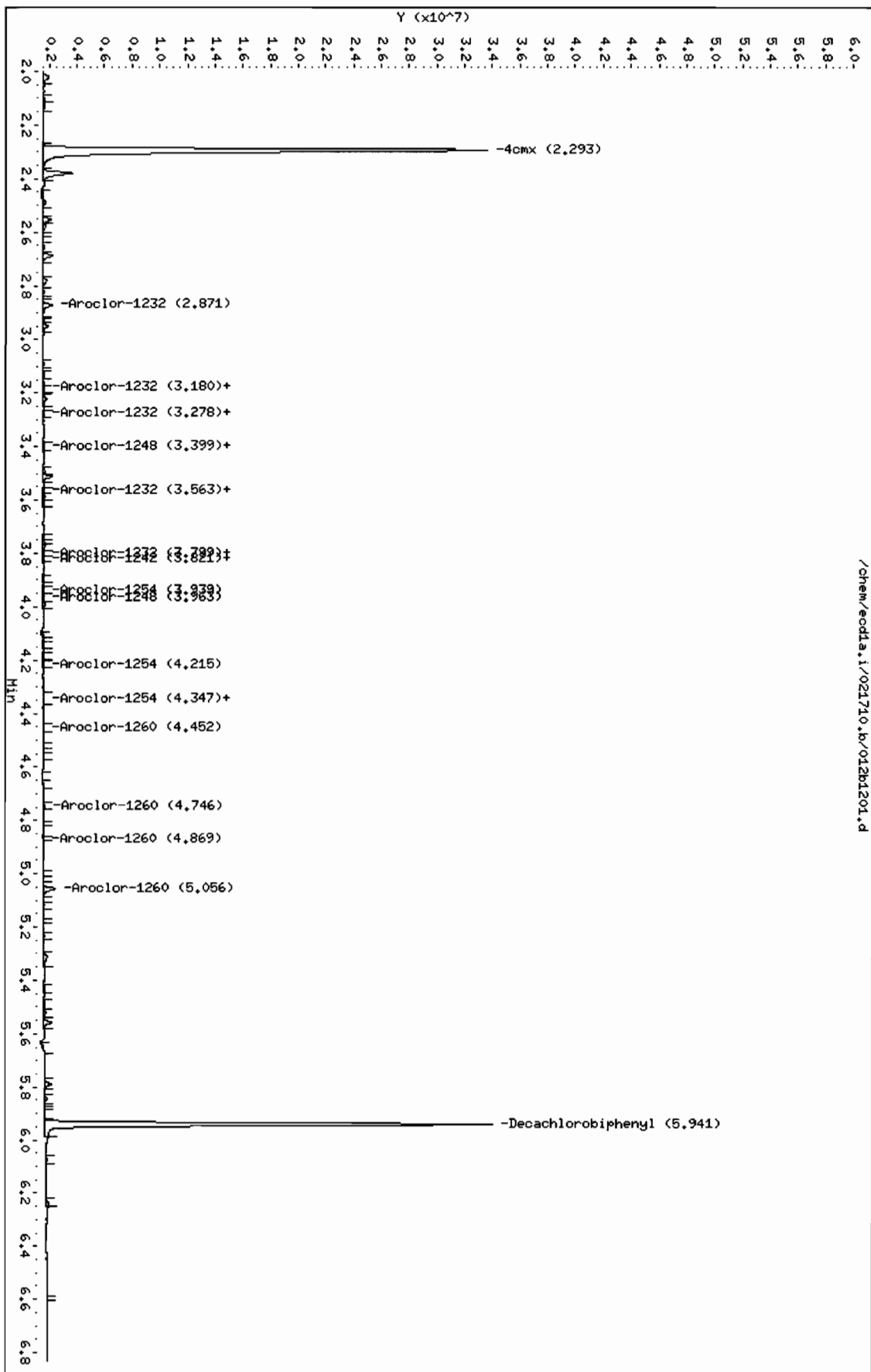
Cpnd Variable Local Compound Variable

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
\$ 11 4cmx						CAS #: 877-09-8		
2.293	2.294	-0.001	32089784	111.846	3.7	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
5.941	5.941	0.000	25033571	116.384	3.9	80.00- 120.00	100.00	

Data File: /chem/ecd1a.i/021710.b/012b1201.d
Date : 17-FEB-2010 08:32
Client ID: PBLK02
Sample Info: 112020472611
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecd1a.i
Operator: YSI
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1620

Matrix: SOIL

Lab Sample ID: 1202045980

Client Sample: QC for batch 954434

Client: LANL010

Project: QC

Client ID: MB for batch 954434

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 954435

Inst: ECD1A.I

Dilution: 1

Run Date: 02/19/2010 10:34

Analyst: YS1

Inj. Vol: 1 uL

Prep Date: 02/18/2010 13:13

Aliquot: 30 g

Final Volume: 1 mL

Data File: 018f1801-1.d

Column: 1 CLP1

Level: LOW

018b1801-1.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.33	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260	U	3.33	ug/kg	1.11	3.33	1

Report Date: 19-Feb-2010 11:39

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021910.b/018f1801.d

Lab Smp Id: 1202045980

Client Smp ID: PBLK03

Inj Date : 19-FEB-2010 10:34

Operator : YS1

Inst ID: ecdla.i

Smp Info : |1202045980|1|

Misc Info : |ECD82P_1S|954435|SVA|QC A|SOIL|MB|||

Comment :

Method : /chem/ecdla.i/021910.b/ECD1-F-8082-021110.m

Meth Date : 19-Feb-2010 11:39 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 18

QC Sample: BLANK

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1620.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

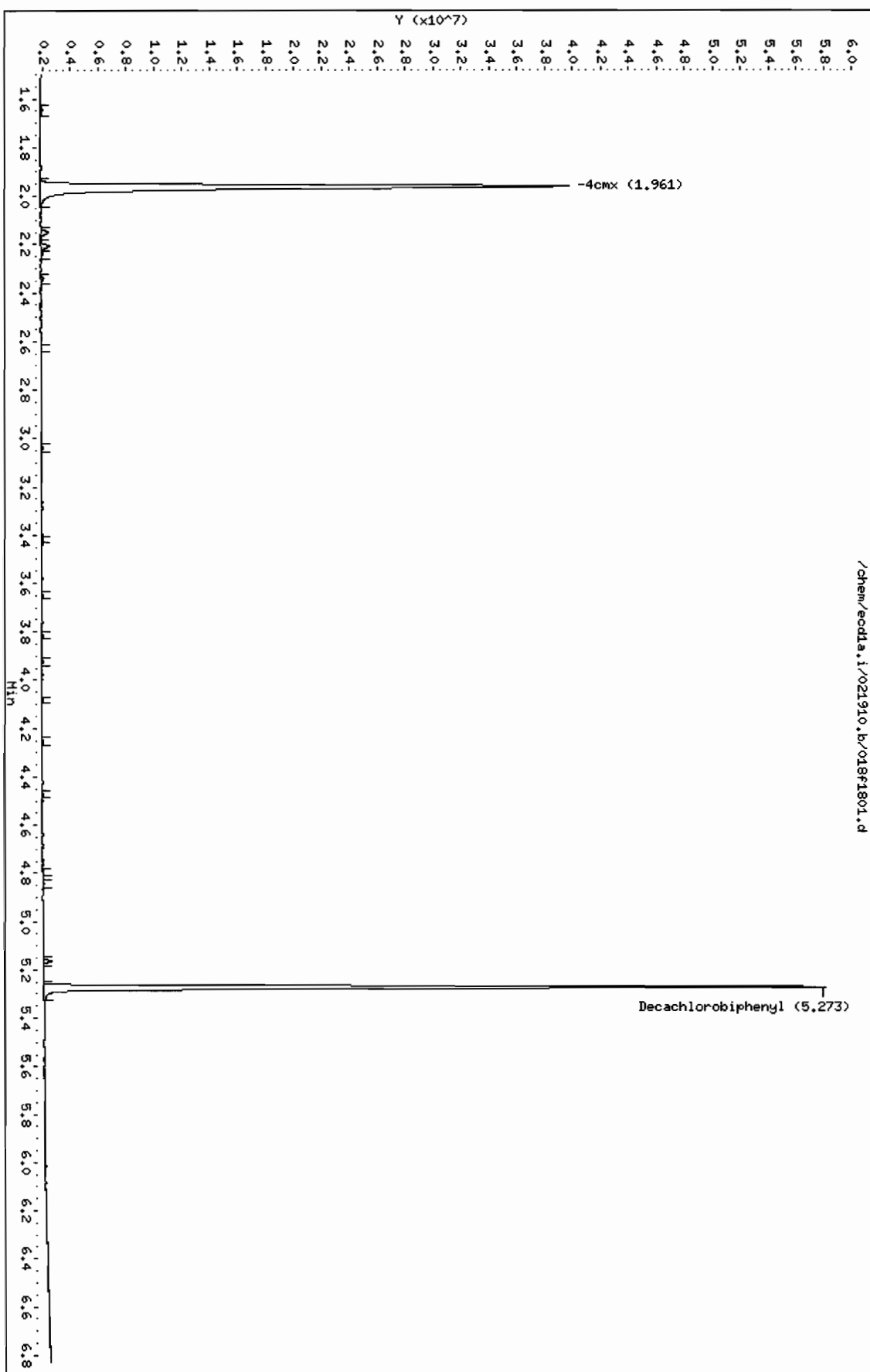
CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8	
1.961	1.960	0.001	46435790	106.219	3.5 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.273	5.275	-0.002	44144865	132.349	4.4 80.00- 120.00	100.00

Data File: /chem/ecdl1.i/021910.b/018f1801.d
Date: 19-FEB-2010 10:34
Client ID: PBLK03
Sample Info: 1120204598011
Volume Injected (uL): 1.0
Column Phase: CLP1

Instrument: ecdl1.i
Operator: YS1
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecd1a.i/021910.b/018b1801.d
 Lab Smp Id: 1202045980 Client Smp ID: PBLK03
 Inj Date : 19-FEB-2010 10:34
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202045980|1|
 Misc Info : |ECD82P_1S|954435|SVA|QC A|SOIL|MB|||
 Comment :
 Method : /chem/ecd1a.i/021910.b/ECD1-B-8082-021110.m
 Meth Date : 19-Feb-2010 11:39 yip00818 Quant Type: ESTD
 Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
 Als bottle: 18 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1620.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

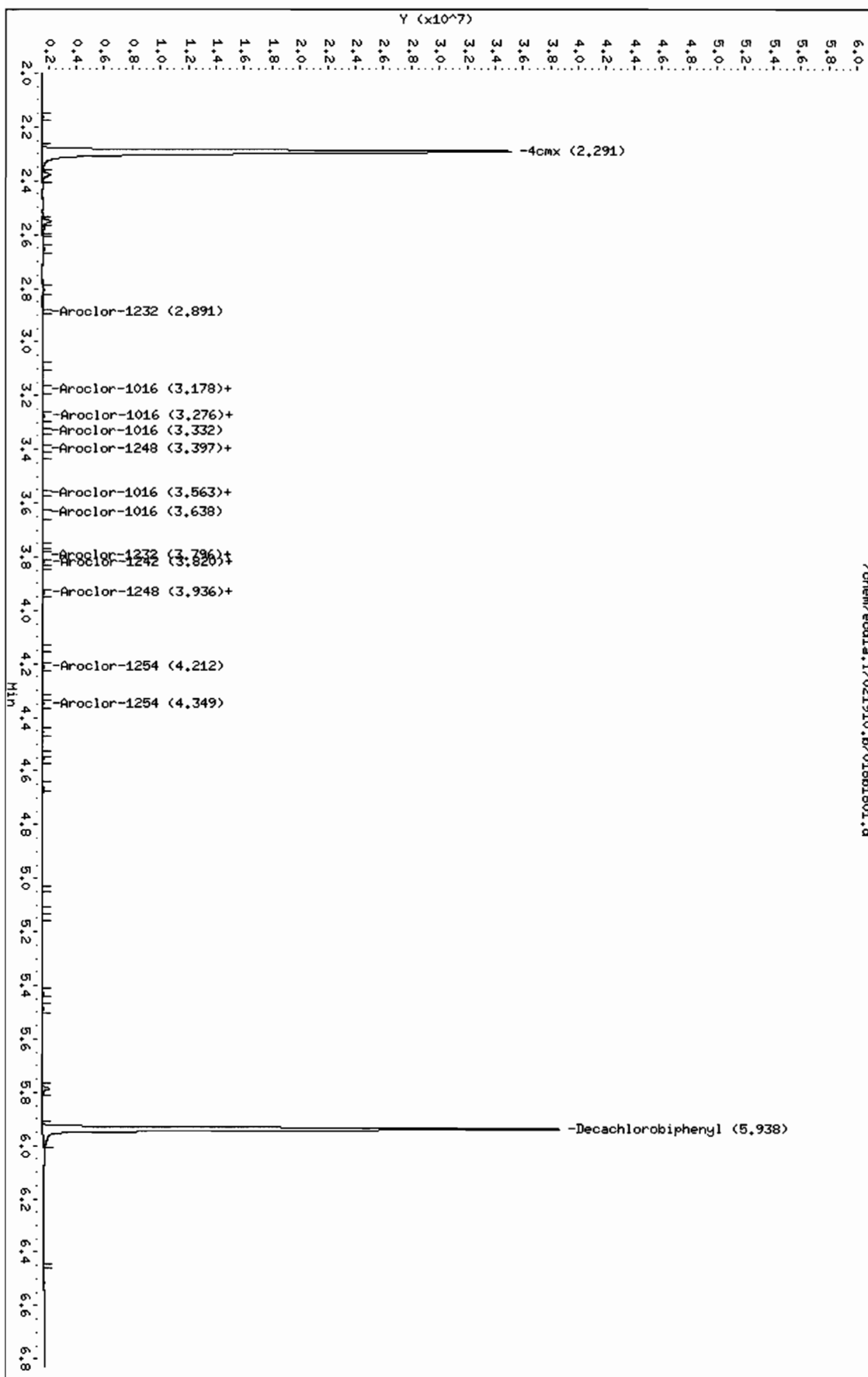
CONCENTRATIONS								
			ON-COL	FINAL				
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8			
2.291	2.292	-0.001	33572854	117.015	3.9	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.938	5.940	-0.002	29283530	136.143	4.5	80.00- 120.00	100.00	

Data File: /chem/eod1a.i/021910.b/018b1801.d
Date: 19-FEB-2010 10:34
Client ID: PBLK03
Sample Info: 11202045980111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25

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PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1620

Matrix: SOIL

Lab Sample ID: 1202040496

Client Sample: QC for batch 952047

Client: LANL010

Project: QC

Client ID: LCS for batch 952047

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 952059

Inst: ECD1A.I

Dilution: 1

Run Date: 02/15/2010 10:44

Analyst: YS1

Inj. Vol: 1 uL

Prep Date: 02/12/2010 12:41

Aliquot: 30 g

Final Volume: 1 mL

Data File: 021f2101-1.d

Column: 1 CLP1

Level: LOW

021b2101-1.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		23.1	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260		26.7	ug/kg	1.11	3.33	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021510.b/021f2101-3.d
 Lab Smp Id: 1202040496 Client Smp ID: PBLK01LCS
 Inj Date : 15-FEB-2010 10:44
 Operator : YS1 Inst ID: ecdla.i
 Smp Info : |1202040496|1|
 Misc Info : |ECD82P_1S|952059|SVA|QC A|SOIL|LCS|||
 Comment :
 Method : /chem/ecdla.i/021510.b/ECD1-F-8082-021110.m
 Meth Date : 15-Feb-2010 11:16 yip00818 Quant Type: ESTD
 Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d
 Als bottle: 21 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1620.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1pl

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

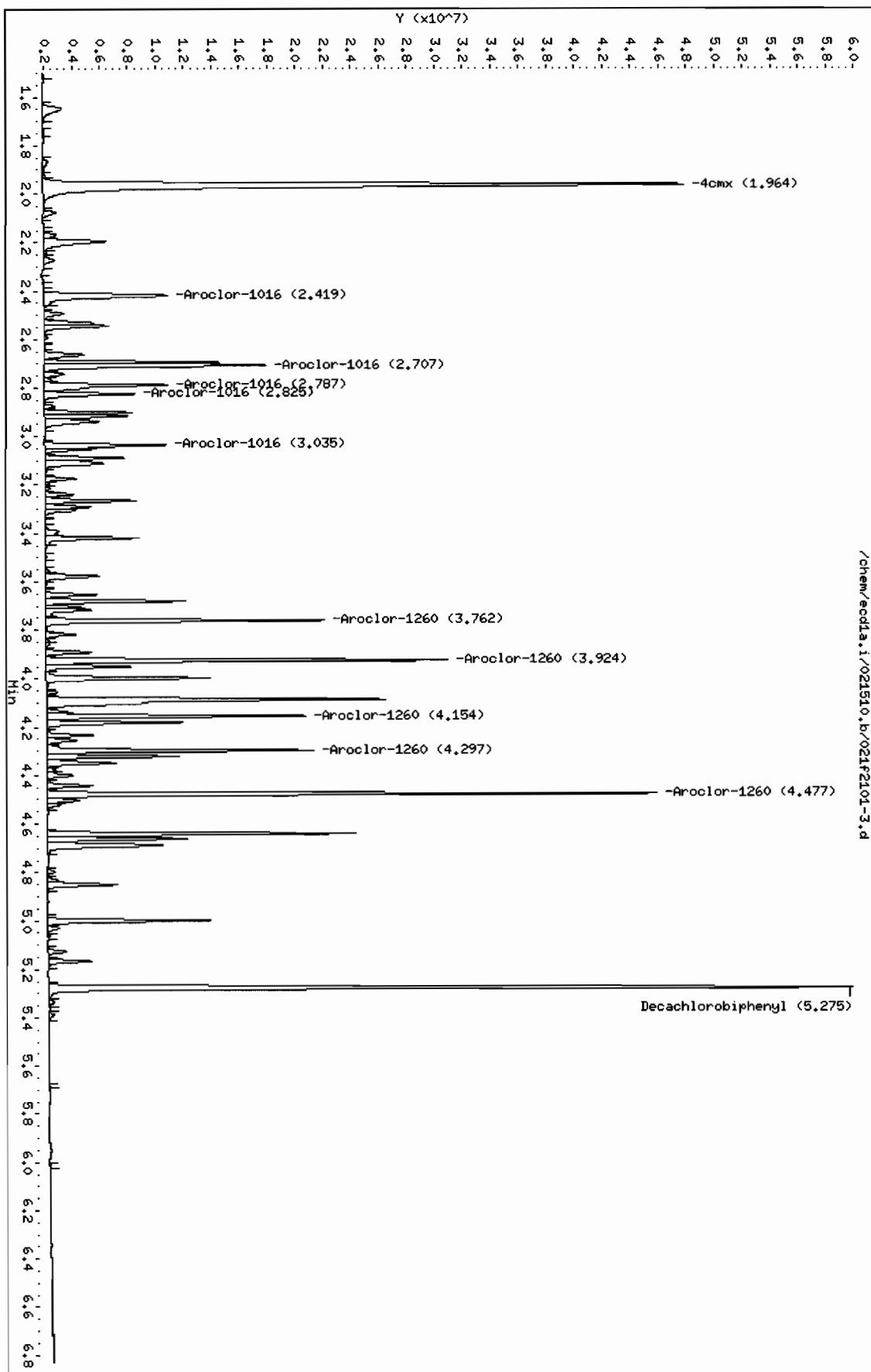
CONCENTRATIONS							
RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8			
1.964	1.963	0.001	58485815 133.783	4.4	80.00-	120.00	100.00
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.275	5.276	-0.001	44695351 133.999	4.5	80.00-	120.00	100.00
1 Aroclor-1016				CAS #: 12674-11-2			
2.419	2.418	0.001	11012191 683.622	22.8	80.00-	120.00	100.00
2.707	2.706	0.001	13655436 690.274	23.0	111.47-	151.47	124.00
2.787	2.787	0.000	8990585 690.235	23.0	62.36-	102.36	81.64
2.825	2.825	0.000	5354263 688.077	22.9	29.74-	69.74	48.62

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)								
3.035	3.036	-0.001	7111466	709.553	23.6	44.08-	84.08	64.58
Average of Peak Concentrations =					23.1			

7 Aroclor-1260					CAS #: 11096-82-5			
3.762	3.762	0.000	14720440	773.529	25.8	80.00-	120.00	100.00
3.924	3.925	-0.001	22367019	788.864	26.3	131.33-	171.33	151.95
4.154	4.156	-0.002	13553543	795.181	26.5	70.05-	110.05	92.07
4.297	4.298	-0.001	14609307	816.520	27.2	74.18-	114.18	99.25
4.477	4.477	0.000	32055736	825.104	27.5	192.16-	232.16	217.76
Average of Peak Concentrations =					26.7			

Data File: /chem/ecda.i/021510.b/021f2101-3.d
Date: 15-FEB-2010 10:44
Client ID: PLK01LCS
Sample Info: 1120204049611
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecda.i
Operator: YSI
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd1a.i/021510.b/021b2101-3.d
 Lab Smp Id: 1202040496 Client Smp ID: PBLK01LCS
 Inj Date : 15-FEB-2010 10:44
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202040496|1|
 Misc Info : |ECD82P_1S|952059|SVA|QC A|SOIL|LCS|||
 Comment :
 Method : /chem/ecd1a.i/021510.b/ECD1-B-8082-021110.m
 Meth Date : 15-Feb-2010 11:24 yip00818 Quant Type: ESTD
 Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
 Als bottle: 21 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1620.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpclp1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
2.294	2.294	0.000	36947860	128.778	4.3	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.940	5.942	-0.002	29862775	138.836	4.6	80.00- 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2		
3.190	3.191	-0.001	8109333	652.388	21.7	80.00- 120.00	100.00 (M)
3.274	3.274	0.000	5627906	660.472	22.0	46.08- 86.08	69.40
3.337	3.337	0.000	3407285	648.544	21.6	20.90- 60.90	42.02
3.564	3.565	-0.001	4513272	670.418	22.3	31.77- 71.77	55.66

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)								
3.639	3.641	-0.002	4131260	653.249	21.8	29.20-	69.20	50.94
Average of Peak Concentrations =					21.9			

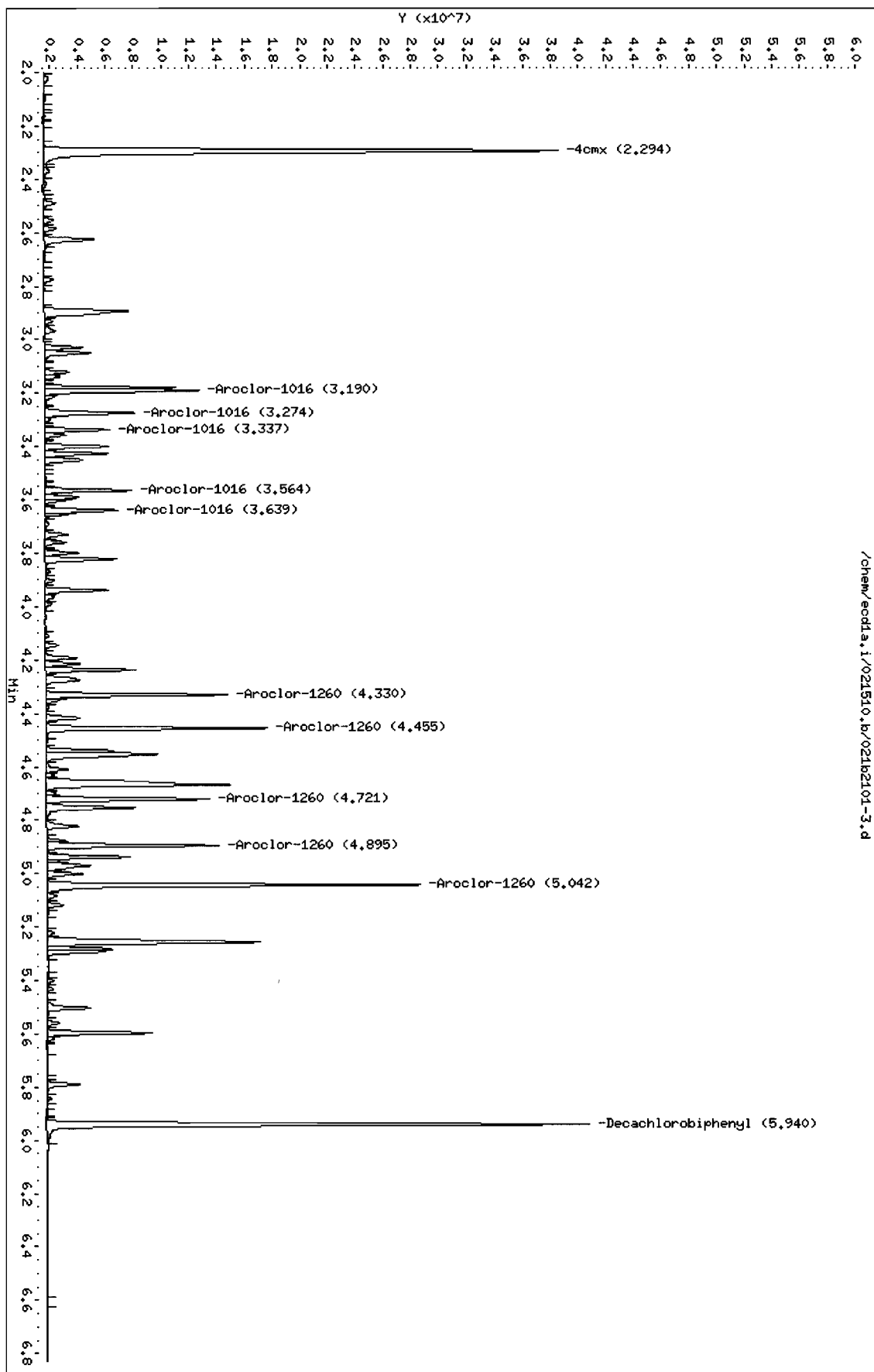
7 Aroclor-1260					CAS #: 11096-82-5			
4.330	4.331	-0.001	9338694	741.610	24.7	80.00-	120.00	100.00
4.455	4.456	-0.001	11355053	753.634	25.1	102.33-	142.33	121.59
4.721	4.721	0.000	8667118	746.010	24.9	72.10-	112.10	92.81
4.895	4.896	-0.001	9088048	755.445	25.2	75.58-	115.58	97.32
5.042	5.043	-0.001	20166868	780.940	26.0	193.71-	233.71	215.95
Average of Peak Concentrations =					25.2			

QC Flag Legend

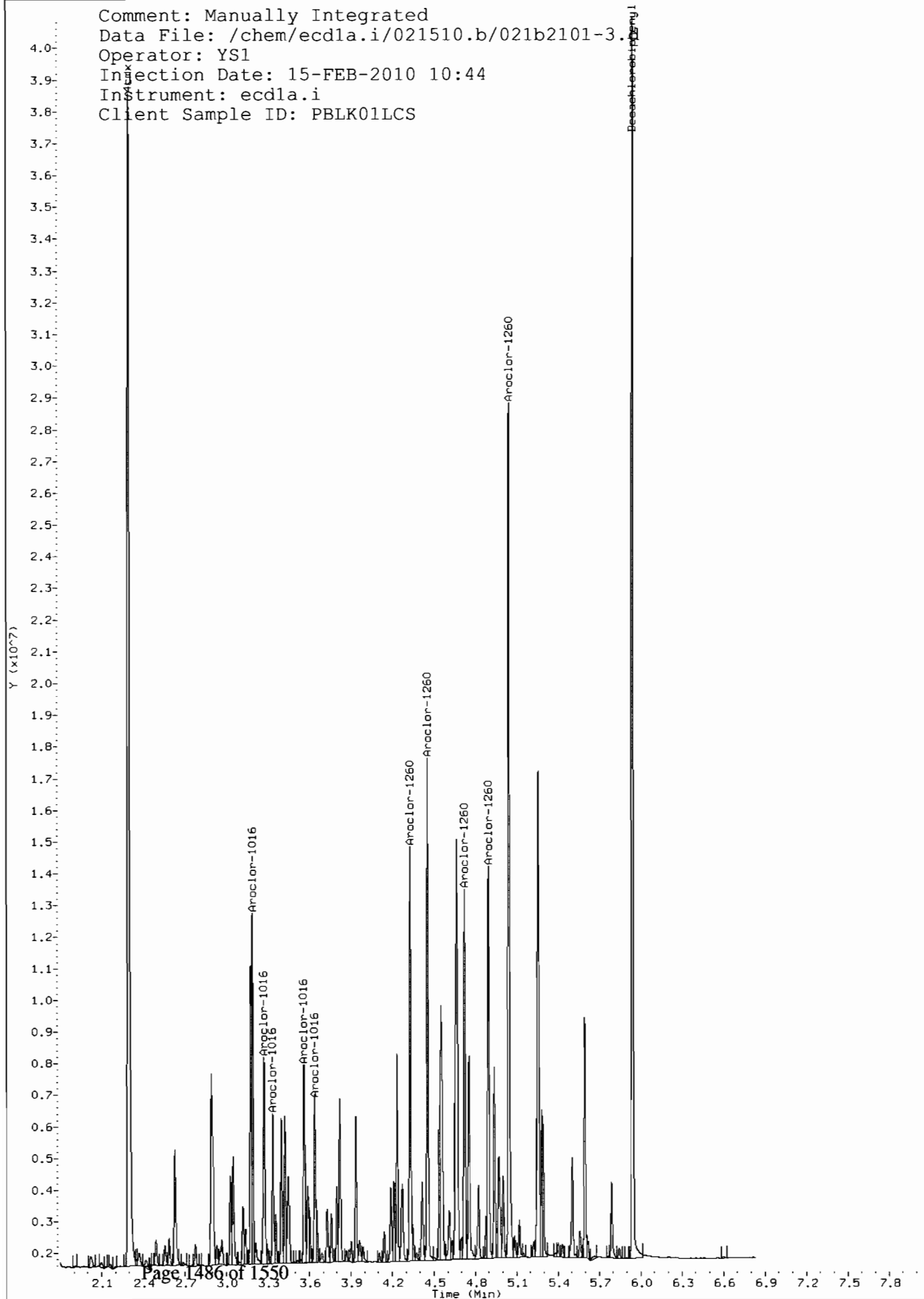
M - Compound response manually integrated.

Data File: /chem/eod1a.i/021510.b/021b2101-3.d
Date: 15-FEB-2010 10:44
Client ID: PBLK01LCS
Sample Info: 11202040496111
Volume Injected (uL): 1.0
Column phase: CLP2

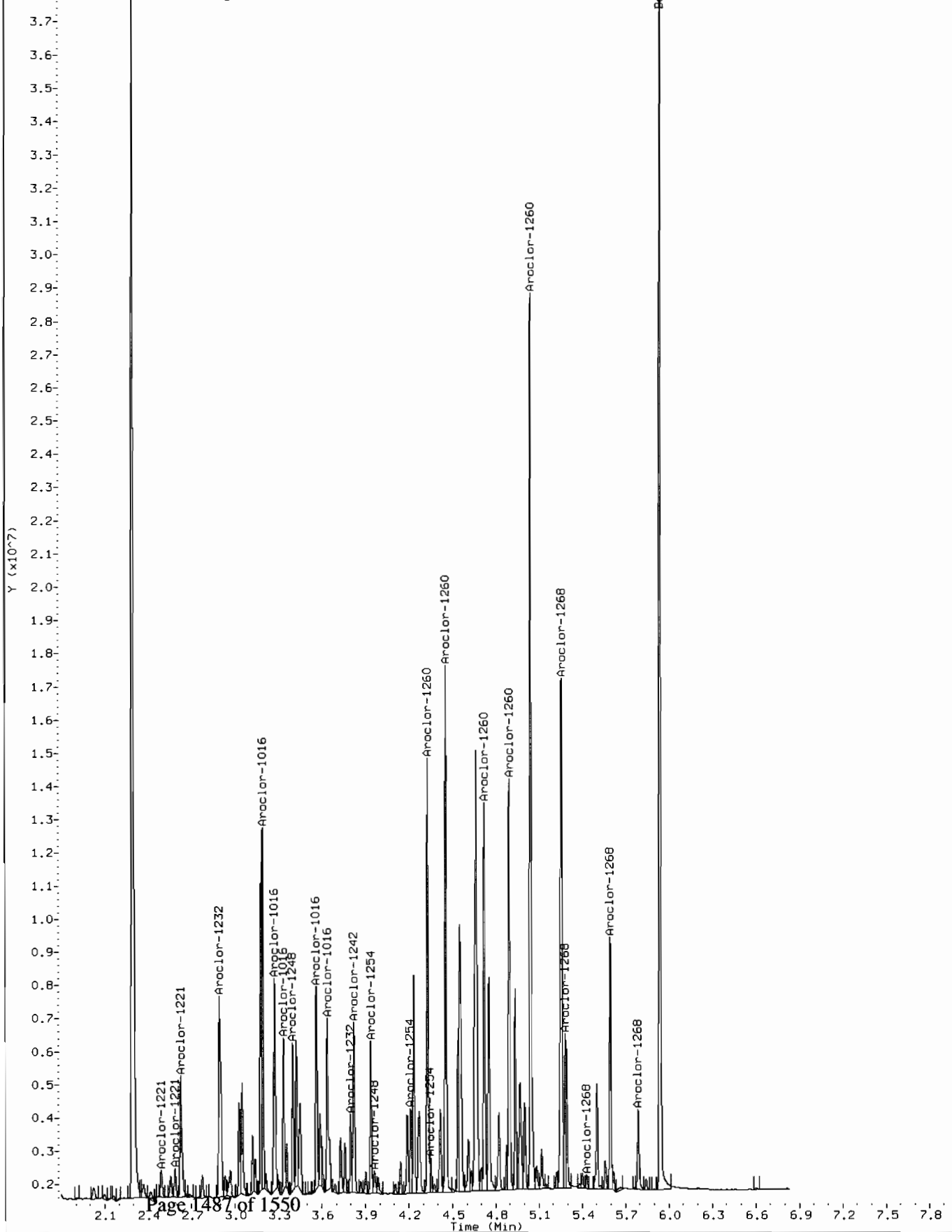
Instrument: eod1a.i
Operator: YS1
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/021510.b/021b2101-3.021
Operator: YS1
Injection Date: 15-FEB-2010 10:44
Instrument: ecd1a.i
Client Sample ID: PBLK01LCS



Comment: Before manual integration
Data File: /chem/ecdl1a.i/021510.b/orig-021b2101-3.d
Operator: YS1
Injection Date: 15-FEB-2010 10:44
Instrument: ecd1a.i
Client Sample ID: PBLK01LCS



PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1620

Matrix: SOIL

Lab Sample ID: 1202044727

Client Sample: QC for batch 953770

Client: LANL010

Project: QC

Client ID: LCS for batch 953770

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 953772

Inst: ECD1A.I

Dilution: 1

Run Date: 02/17/2010 08:45

Analyst: YS1

Inj. Vol: 1 uL

Prep Date: 02/16/2010 20:08

Aliquot: 30 g

Final Volume: 1 mL

Data File: 013f1301.d

Column: 1 CLP1

Level: LOW

013b1301.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		19.8	ug/kg	1.11	3.33	2
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260		23.0	ug/kg	1.11	3.33	2

Data File: /chem/ecdla.i/021710.b/013f1301.d
Report Date: 17-Feb-2010 11:23

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021710.b/013f1301.d
Lab Smp Id: 1202044727 Client Smp ID: PBLK02LCS
Inj Date : 17-FEB-2010 08:45
Operator : YS1 Inst ID: ecdla.i
Smp Info : |1202044727|1|
Misc Info : |ECD82P_1S|953772|SVA|QC A|SOIL|LCS|||
Comment :
Method : /chem/ecdla.i/021710.b/ECD1-F-8082-021110.m
Meth Date : 17-Feb-2010 10:07 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d
Als bottle: 13 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1620.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8								
1.962	1.961	0.001	51301701	117.349	3.9	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3								
5.275	5.275	0.000	33429243	100.223	3.3	80.00- 120.00	100.00	

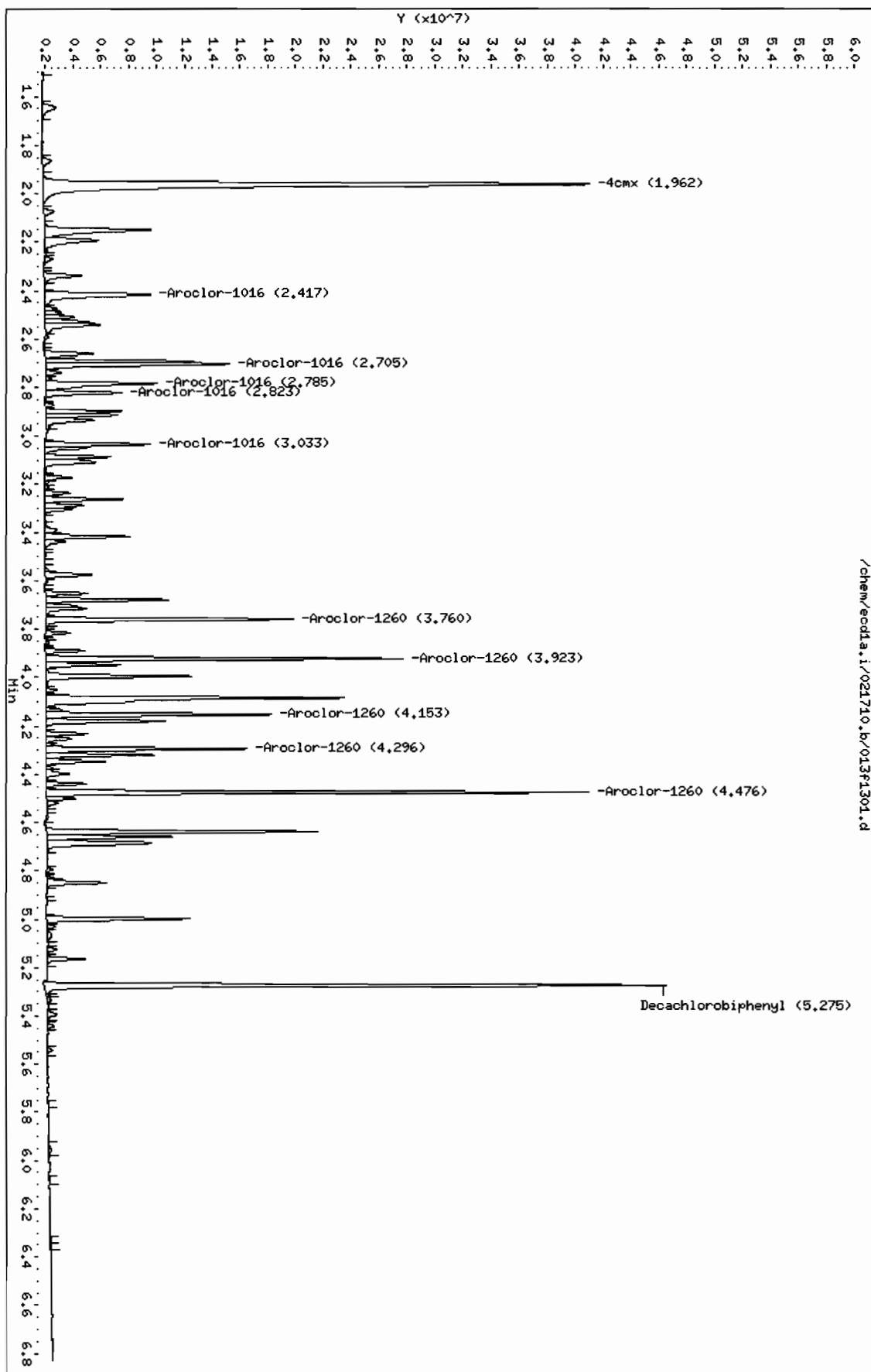
1 Aroclor-1016 CAS #: 12674-11-2								
2.417	2.416	0.001	9377875	582.166	19.4	80.00- 120.00	100.00	
2.705	2.705	0.000	11683702	590.604	19.7	114.07- 154.07	124.59	
2.785	2.785	0.000	7908178	607.135	20.2	64.20- 104.20	84.33	
2.823	2.823	0.000	4408847	566.581	18.9	30.89- 70.89	47.01	

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)									
3.033	3.034	-0.001	5942483	592.917	19.8	45.77-	85.77	63.37	
Average of Peak Concentrations =					19.6				

7 Aroclor-1260					CAS #: 11096-82-5				
3.760	3.760	0.000	12883970	677.026	22.6	80.00-	120.00	100.00	
3.923	3.923	0.000	19786811	697.863	23.3	130.37-	170.37	153.58	
4.153	4.153	0.000	11900540	698.200	23.3	69.94-	109.94	92.37	
4.296	4.296	0.000	10776790	602.319	20.1	74.51-	114.51	83.64	
4.476	4.476	0.000	28582861	735.713	24.5	192.25-	232.25	221.85	
Average of Peak Concentrations =					22.8				

Data File: /chem/ecda.i/021710.b/013f1301.d
Date: 17-FEB-2010 08:45
Client ID: PBLK02LCS
Sample Info: 11202044727111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecda.i
Operator: YS1
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecd1a.i/021710.b/013b1301.d
 Lab Smp Id: 1202044727 Client Smp ID: PBLK02LCS
 Inj Date : 17-FEB-2010 08:45
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202044727|1|
 Misc Info : |ECD82P_1S|953772|SVA|QC A|SOIL|LCS|||
 Comment :
 Method : /chem/ecd1a.i/021710.b/ECD1-B-8082-021110.m
 Meth Date : 17-Feb-2010 10:07 yip00818 Quant Type: ESTD
 Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
 Als bottle: 13 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1620.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpclp1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
2.293	2.294	-0.001	33080478	115.299	3.8	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.941	5.941	0.000	25897868	120.402	4.0	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2			
3.189	3.190	-0.001	7429485	597.695	19.9	80.00- 120.00	100.00(M)	
3.272	3.273	-0.001	5085824	596.855	19.9	44.85- 84.85	68.45	
3.336	3.336	0.000	3088531	587.872	19.6	20.00- 60.00	41.57	
3.563	3.564	-0.001	4038682	599.920	20.0	30.97- 70.97	54.36	

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)								
3.639	3.639	0.000	3761817	594.832	19.8	27.89-	67.89	60.49
Average of Peak Concentrations =					19.8			

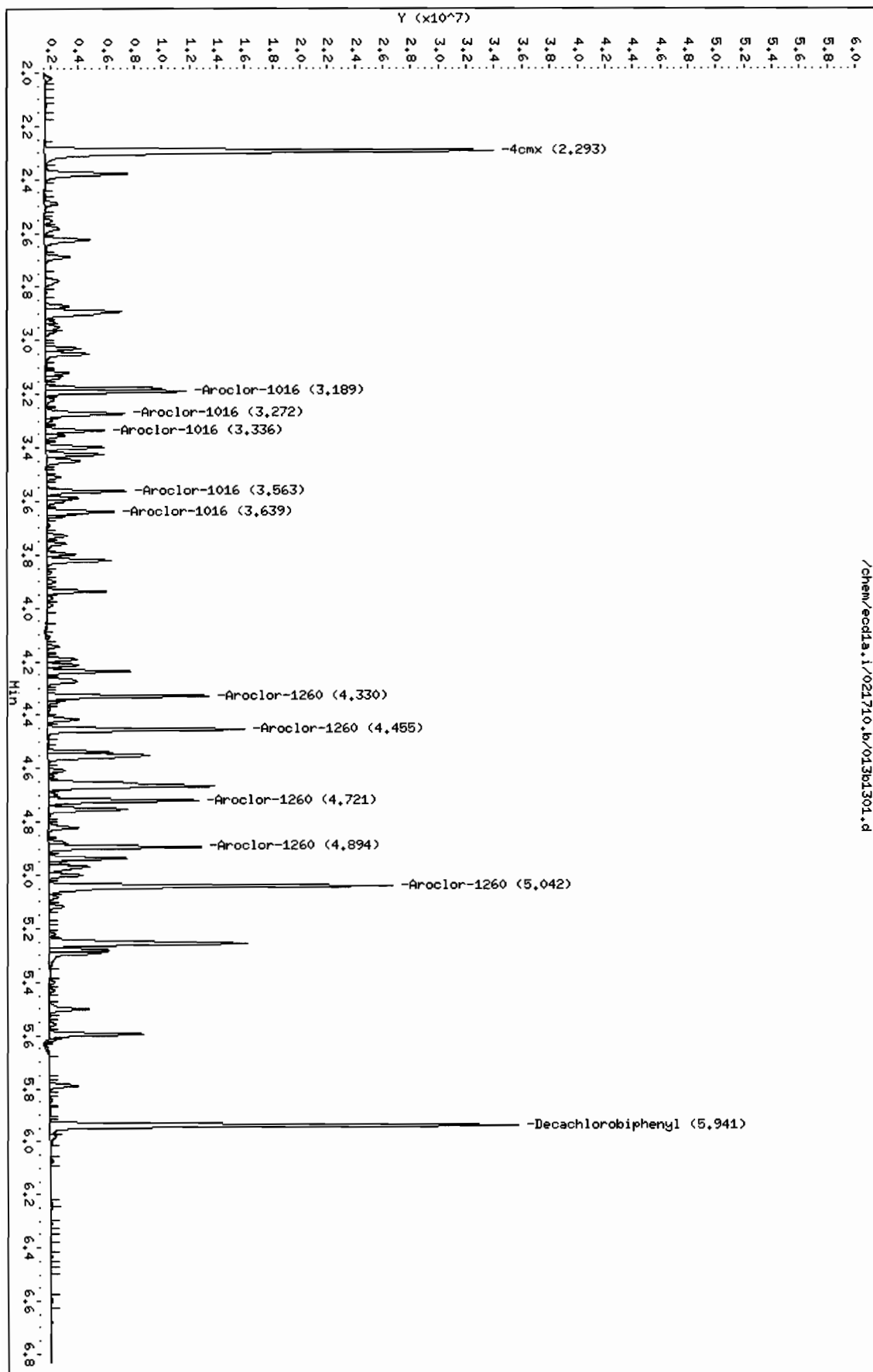
7 Aroclor-1260					CAS #: 11096-82-5			
4.330	4.330	0.000	8403056	667.309	22.2	80.00-	120.00	100.00
4.455	4.455	0.000	10341889	686.390	22.9	101.80-	141.80	123.07
4.721	4.721	0.000	7913675	681.159	22.7	72.40-	112.40	94.18
4.894	4.895	-0.001	8274325	687.805	22.9	75.59-	115.59	98.47
5.042	5.041	0.001	18768911	726.805	24.2	191.86-	231.86	223.36
Average of Peak Concentrations =					23.0			

QC Flag Legend

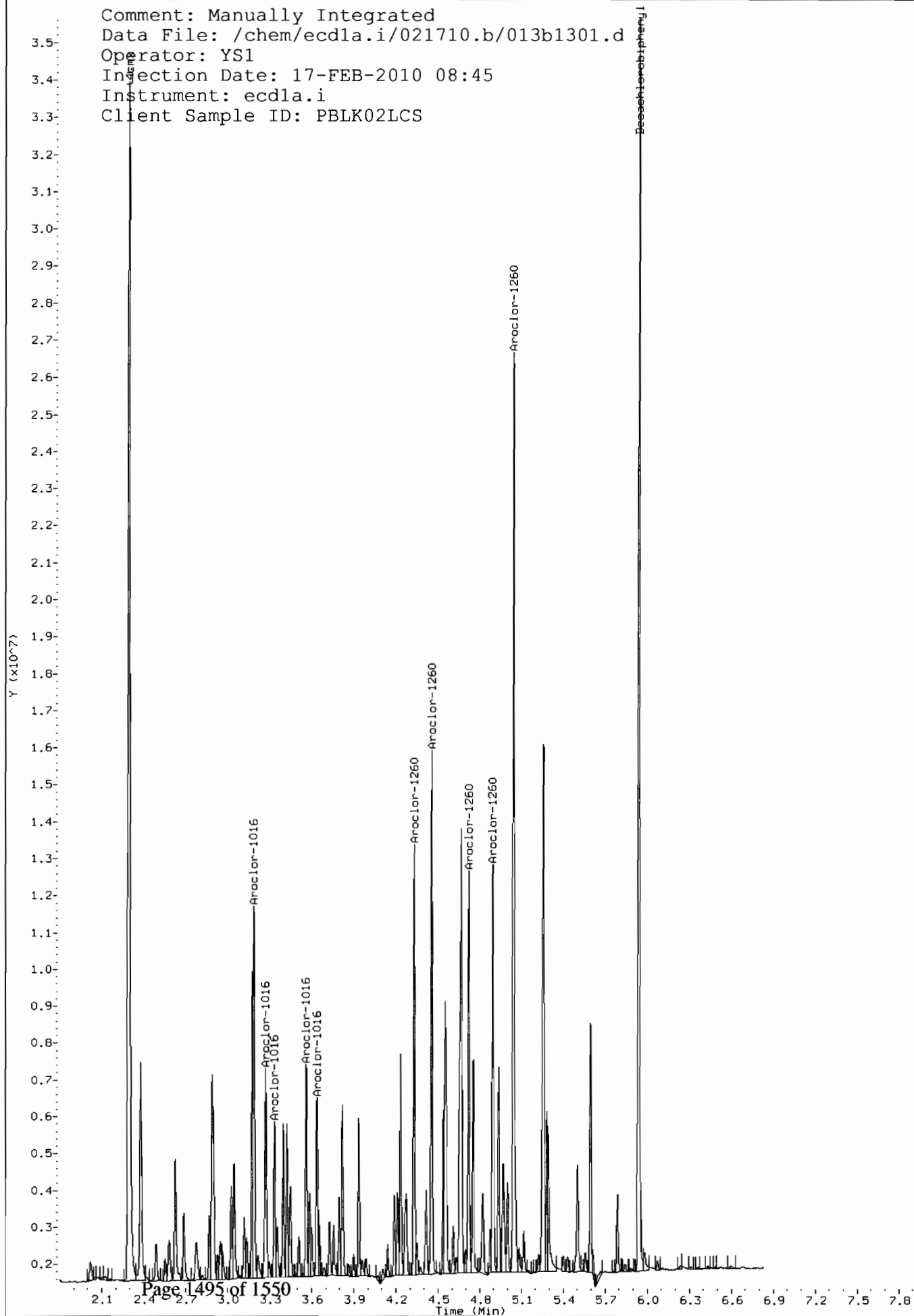
M - Compound response manually integrated.

Data File: /chem/ecda.i/021710.b/013b1301.d
 Date: 17-FEB-2010 08:45
 Client ID: PBLK02LCS
 Sample Info: 1420204472711
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecda.i
 Operator: YSI
 Column diameter: 0.25



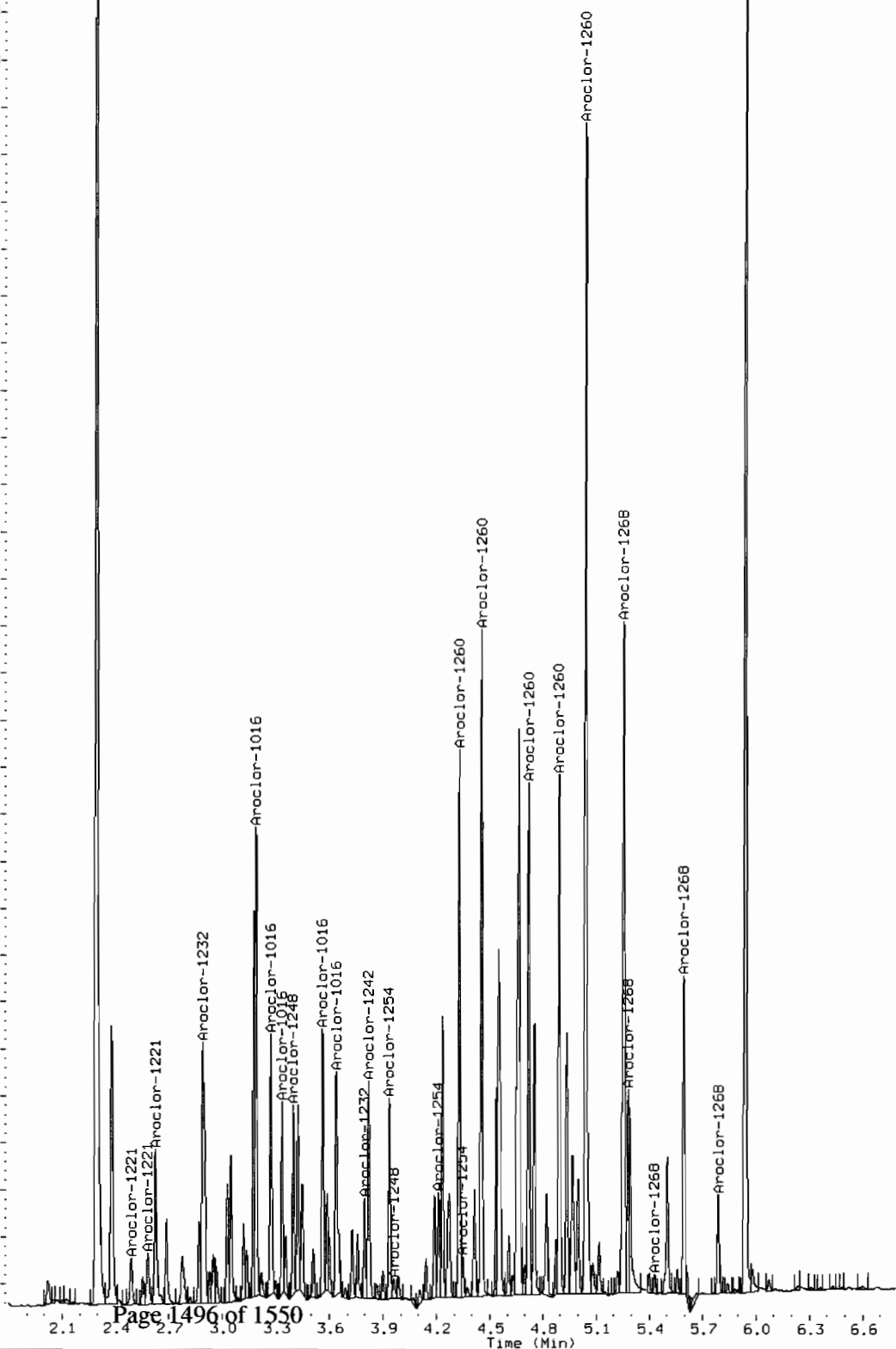
Comment: Manually Integrated
Data File: /chem/ecdl1a.i/021710.b/013b1301.d
Operator: YS1
Injection Date: 17-FEB-2010 08:45
Instrument: ecd1a.i
Client Sample ID: PBLK02LCS



Comment: Before manual integration
Data File: /chem/ecdla.i/021710.b/orig-013b1301.d
Operator: YS1
Injection Date: 17-FEB-2010 08:45
Instrument: ecdla.i
Client Sample ID: PBLK02LCS

Y (x10⁷)

Baseline (mV)



PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1620

Matrix: SOIL

Lab Sample ID: 1202045981

Client Sample: QC for batch 954434

Client: LANL010

Project: QC

Client ID: LCS for batch 954434

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 954435

Inst: ECD1A.1

Dilution: 1

Run Date: 02/19/2010 10:45

Analyst: YS1

Inj. Vol: 1 uL

Prep Date: 02/18/2010 13:13

Aliquot: 30 g

Final Volume: 1 mL

Data File: 019f1901-1.d

Column: 1 CLP1

Level: LOW

019b1901-1.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		20.8	ug/kg	1.11	3.33	2
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260		24.2	ug/kg	1.11	3.33	2

Report Date: 19-Feb-2010 11:54

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021910.b/019f1901.d

Lab Smp Id: 1202045981

Client Smp ID: PBLK03LCS

Inj Date : 19-FEB-2010 10:45

Operator : YS1

Inst ID: ecdla.i

Smp Info : |1202045981|1|

Misc Info : |ECD82P_1S|954435|SVA|QC A|SOIL|LCS|

Comment :

Method : /chem/ecdla.i/021910.b/ECD1-F-8082-021110.m

Meth Date : 19-Feb-2010 11:39 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 19

QC Sample: LCS

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1620.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpclpl

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS							
RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8			
1.960	1.960	0.000	50734734 116.053	3.9	80.00-	120.00	100.00
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.274	5.275	-0.001	45481972 136.357	4.5	80.00-	120.00	100.00
1 Aroclor-1016				CAS #: 12674-11-2			
2.416	2.416	0.000	8992036 558.214	18.6	80.00-	120.00	100.00
2.705	2.705	0.000	11265733 569.476	19.0	108.23-	148.23	125.29
2.785	2.785	0.000	7371203 565.910	18.9	61.71-	101.71	81.97
2.824	2.824	0.000	4388001 563.902	18.8	29.03-	69.03	48.80

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====

1 Aroclor-1016 (continued)

3.034	3.035	-0.001	5687480	567.474	18.9	44.30- 84.30	63.25
Average of Peak Concentrations =				18.8			

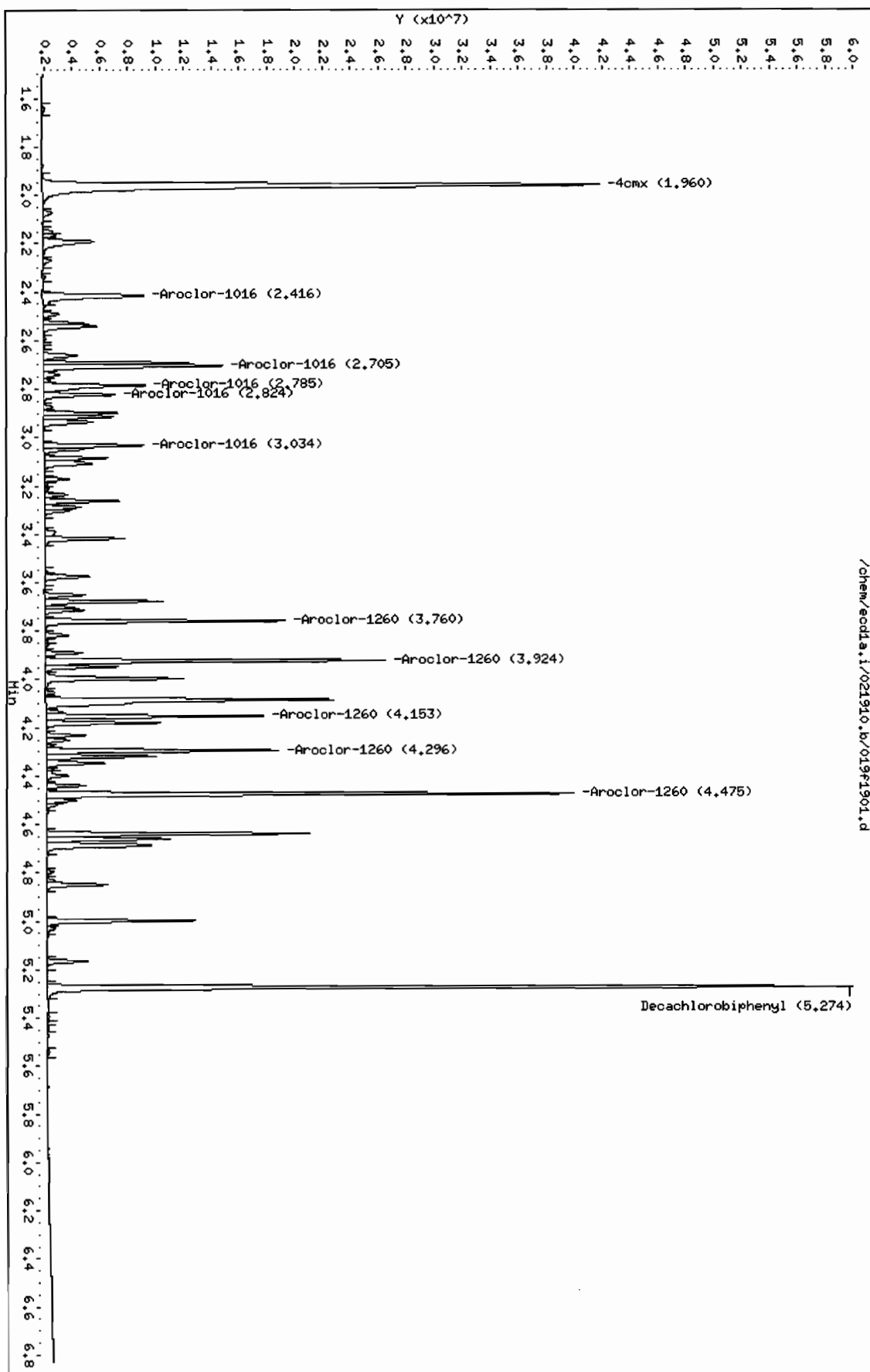
7 Aroclor-1260

CAS #: 11096-82-5

3.760	3.761	-0.001	12496934	656.688	21.9	80.00- 120.00	100.00
3.924	3.924	0.000	19095886	673.494	22.4	132.02- 172.02	152.80
4.153	4.155	-0.002	11546360	677.420	22.6	71.32- 111.32	92.39
4.296	4.297	-0.001	12228957	683.481	22.8	77.07- 117.07	97.86
4.475	4.476	-0.001	28145322	724.451	24.1	197.10- 237.10	225.22
Average of Peak Concentrations =				22.8			

Data File: /chem/ecdda.i/021910.b/019f1901.d
Date: 19-FEB-2010 10:45
Client ID: PBLK03LCS
Sample Info: 1120204598111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecdla.i/021910.b/019b1901.d
 Lab Smp Id: 1202045981 Client Smp ID: PBLK03LCS
 Inj Date : 19-FEB-2010 10:45
 Operator : YS1 Inst ID: ecdla.i
 Smp Info : |1202045981|1|
 Misc Info : |ECD82P_1S|954435|SVA|QC A|SOIL|LCS|||
 Comment :
 Method : /chem/ecdla.i/021910.b/ECD1-B-8082-021110.m
 Meth Date : 19-Feb-2010 11:39 yip00818 Quant Type: ESTD
 Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
 Als bottle: 19 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1620.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpclp1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE		RATIO
---	-----	-----	-----	-----	-----	-----	-----	-----
\$ 11 4cmx					CAS #: 877-09-8			
2.292	2.292	0.000	36383027	126.809	4.2	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.939	5.940	-0.001	29968987	139.329	4.6	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.189	3.190	-0.001	8036344	646.516	21.6	80.00-	120.00	100.00 (M)
3.272	3.272	0.000	5285406	620.277	20.7	45.41-	85.41	65.77
3.335	3.335	0.000	3179734	605.232	20.2	20.50-	60.50	39.57
3.563	3.563	0.000	4171758	619.688	20.6	31.45-	71.45	51.91

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)								
3.638	3.639	-0.001	3959307	626.059	20.9	28.64-	68.64	58.38
Average of Peak Concentrations =					20.8			

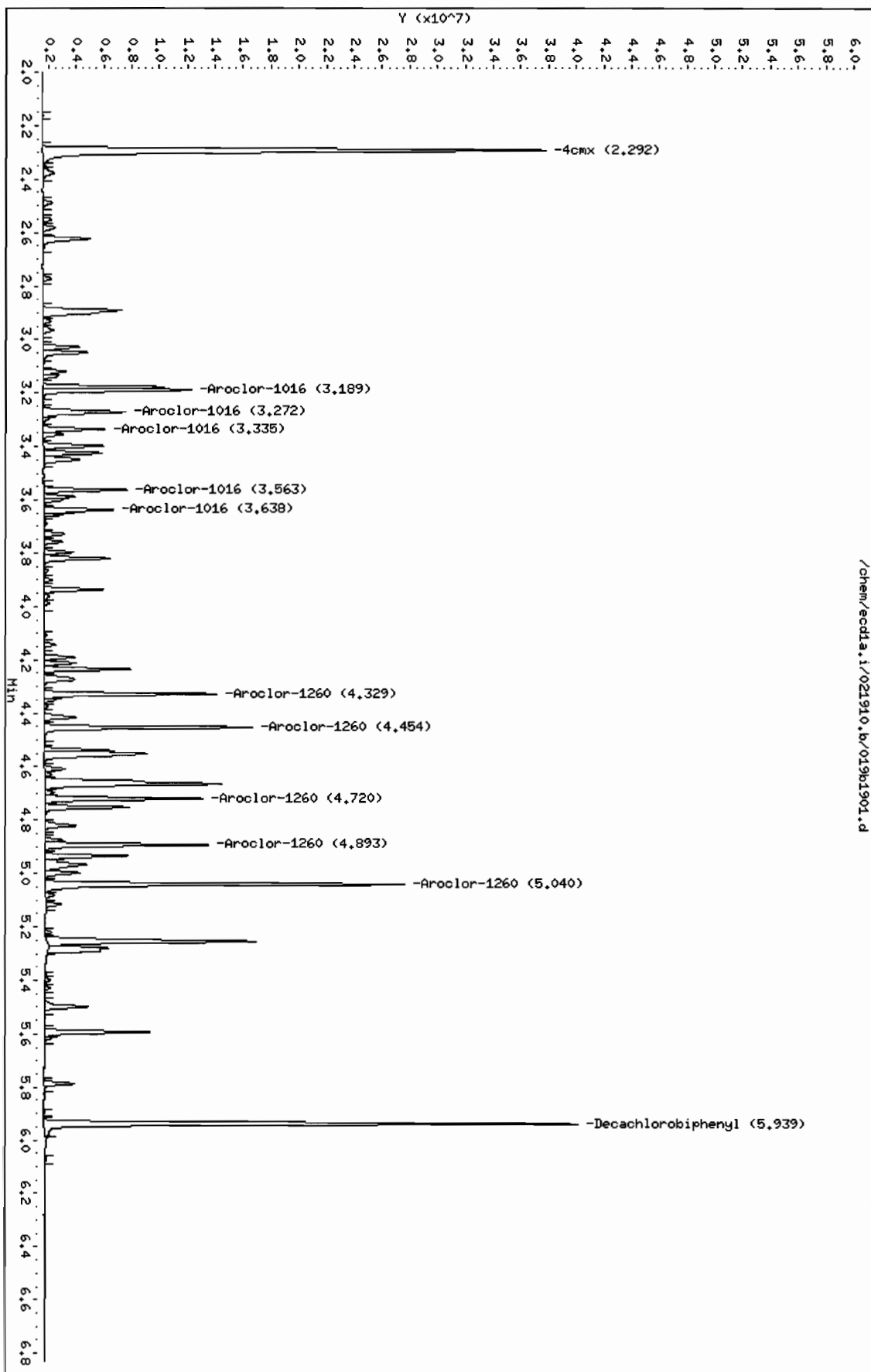
7 Aroclor-1260					CAS #: 11096-82-5			
4.329	4.330	-0.001	8835780	701.673	23.4	80.00-	120.00	100.00
4.454	4.455	-0.001	10910140	724.105	24.1	102.83-	142.83	123.48
4.720	4.720	0.000	8357251	719.339	24.0	72.47-	112.47	94.58
4.893	4.894	-0.001	8767727	728.819	24.3	75.93-	115.93	99.23
5.040	5.041	-0.001	19705881	763.088	25.4	193.97-	233.97	223.02
Average of Peak Concentrations =					24.2			

QC Flag Legend

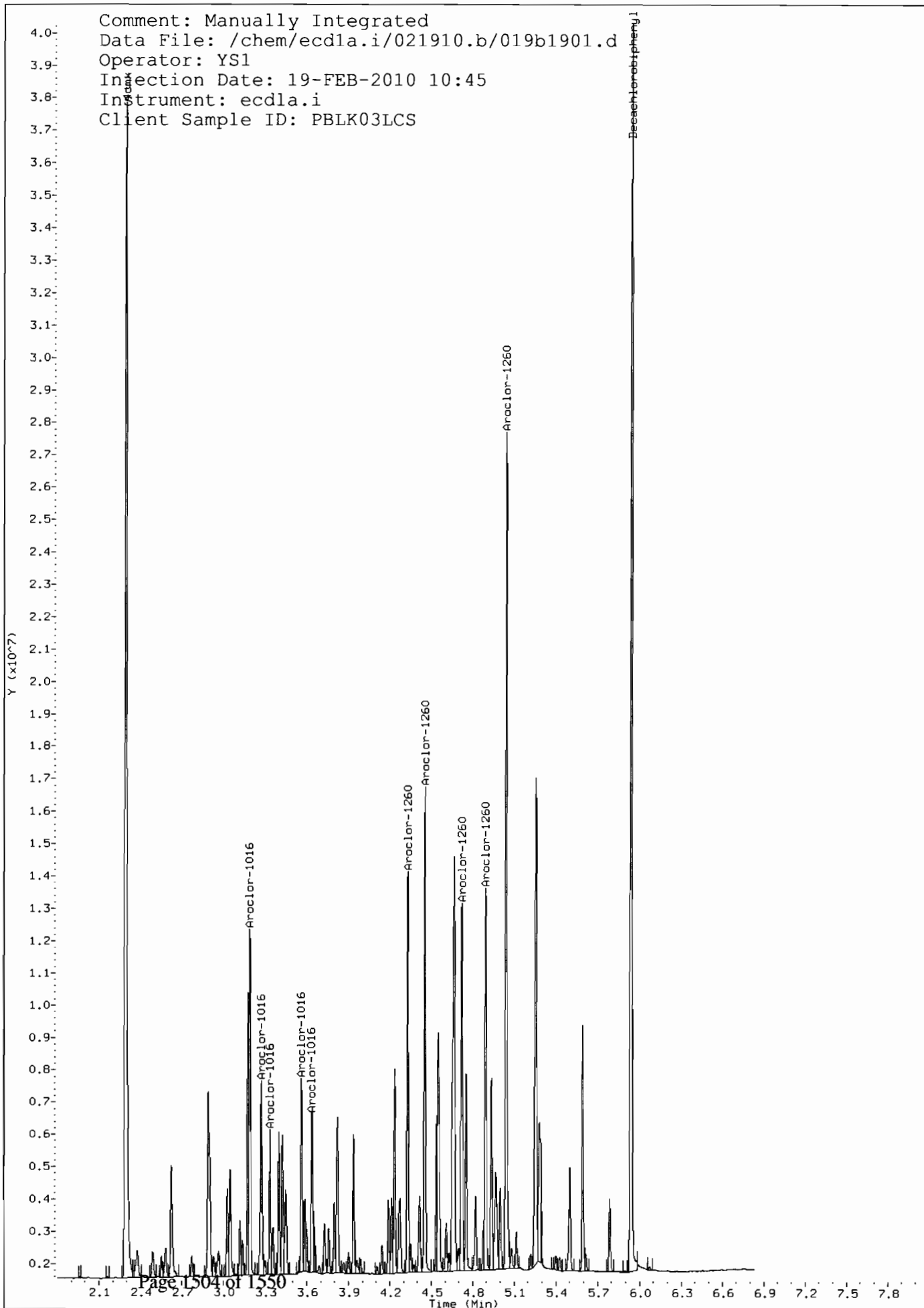
M - Compound response manually integrated.

Data File: /chem/ecda.i/021910.b/019b1901.d
Date: 19-FEB-2010 10:45
Client ID: PBLK03.LCS
Sample Info: 1120204598111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecda.i
Operator: YSI
Column diameter: 0.25

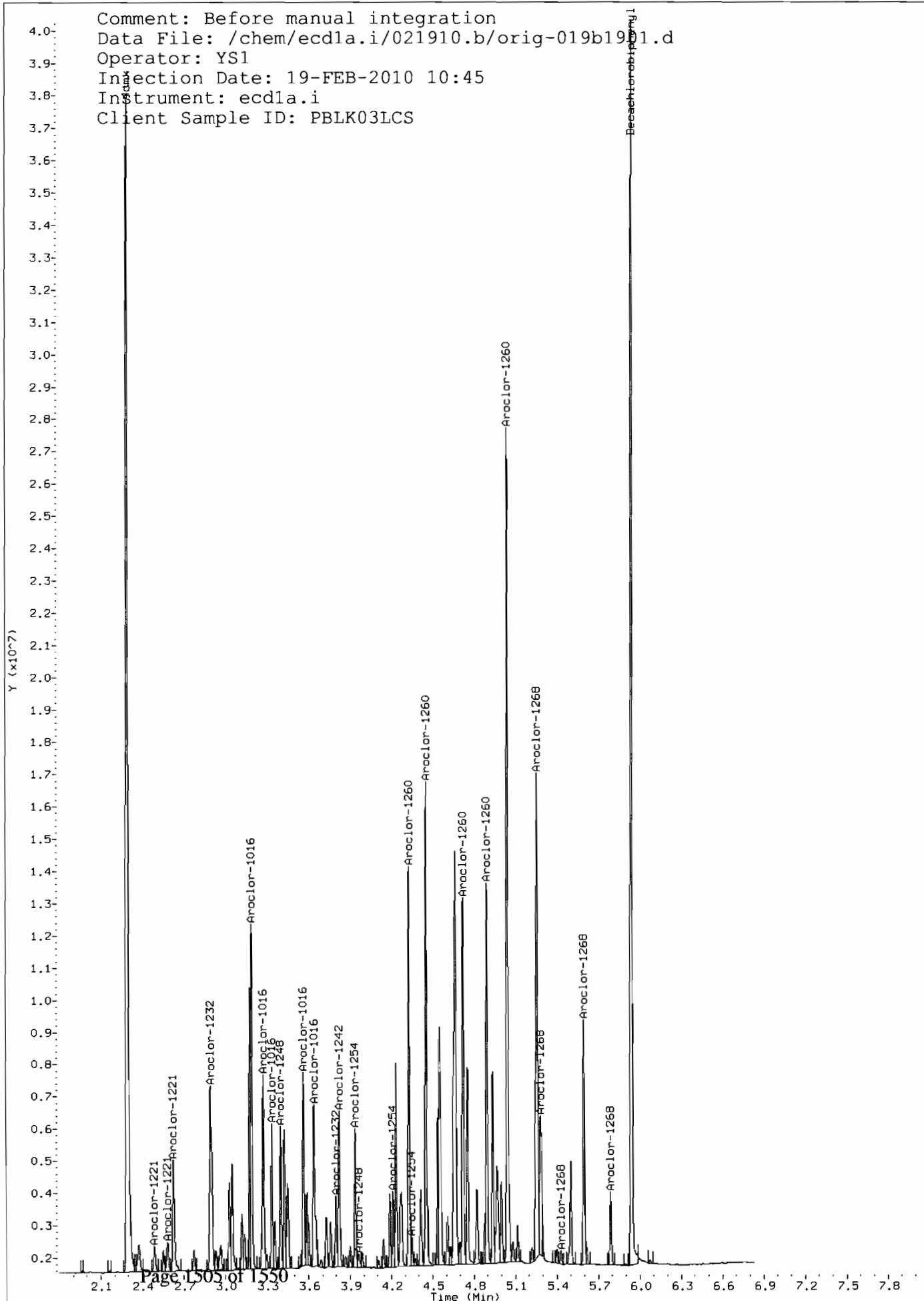


Comment: Manually Integrated
Data File: /chem/ecdla.i/021910.b/019b1901.d
Operator: YS1
Injection Date: 19-FEB-2010 10:45
Instrument: ecdla.i
Client Sample ID: PBLK03LCS



Comment: Before manual integration
Data File: /chem/ecdl1.i/021910.b/orig-019b1911.d
Operator: YS1
Injection Date: 19-FEB-2010 10:45
Instrument: ecdl1.i
Client Sample ID: PBLK03LCS

Y (x10⁻⁷)



PCB
Certificate of Analysis
Sample Summary

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SDG Number: 10-1620

Matrix: SOIL

Lab Sample ID: 1202044728

Client Sample: QC for batch 953770

Client: LANL010

Project: QC

Client ID: LCSD for batch 953770

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 953772

Inst: ECD1A.I

Dilution: 1

Run Date: 02/17/2010 08:57

Analyst: YS1

Inj. Vol: 1 uL

Prep Date: 02/16/2010 20:08

Aliquot: 30 g

Final Volume: 1 mL

Data File: 014f1401.d

Column: 1 CLP1

Level: LOW

014b1401.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		20.0	ug/kg	1.11	3.33	2
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260		23.3	ug/kg	1.11	3.33	2

Data File: /chem/ecdla.i/021710.b/014f1401.d
Report Date: 17-Feb-2010 11:25

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021710.b/014f1401.d
Lab Smp Id: 1202044728 Client Smp ID: PBLK02LCSD
Inj Date : 17-FEB-2010 08:57
Operator : YSl Inst ID: ecdla.i
Smp Info : |1202044728|1|
Misc Info : |ECD82P_1S|953772|SVA|QC A|SOIL|LCSD|||
Comment :
Method : /chem/ecdla.i/021710.b/ECD1-F-8082-021110.m
Meth Date : 17-Feb-2010 10:07 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d
Als bottle: 14 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1620.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

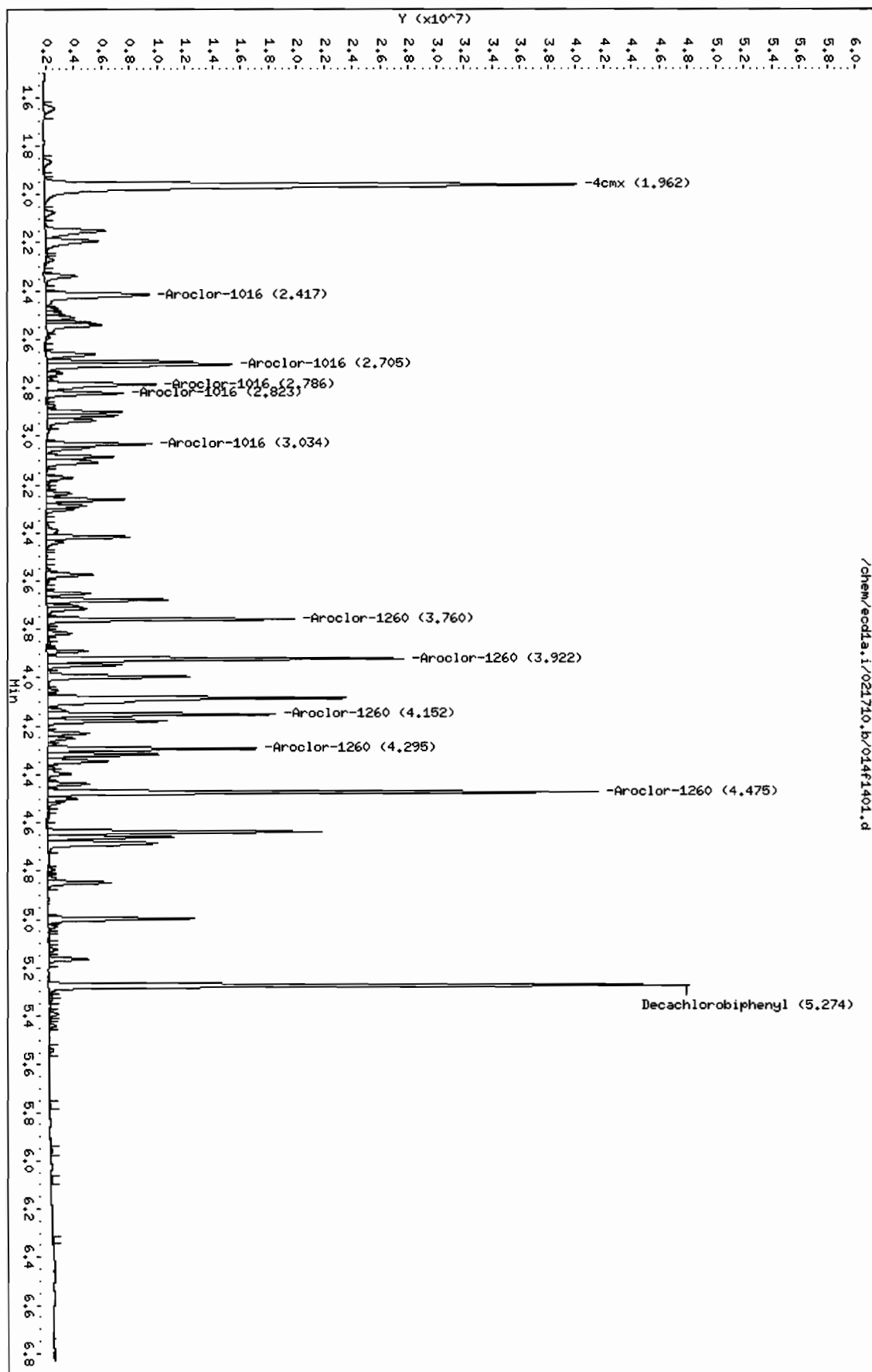
RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8			
1.962	1.961	0.001	50556967 115.646	3.8	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.274	5.275	-0.001	35346541 105.971	3.5	80.00- 120.00	100.00	
1 Aroclor-1016				CAS #: 12674-11-2			
2.417	2.416	0.001	9353835 580.674	19.4	80.00- 120.00	100.00	
2.705	2.705	0.000	11995367 606.359	20.2	114.07- 154.07	128.24	
2.786	2.785	0.001	7785269 597.699	19.9	64.20- 104.20	83.23	
2.823	2.823	0.000	4436879 570.184	19.0	30.89- 70.89	47.43	

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)								
3.034	3.034	0.000	6016390	600.291	20.0	45.77-	85.77	64.32
Average of Peak Concentrations =					19.7			

7 Aroclor-1260					CAS #: 11096-82-5			
3.760	3.760	0.000	12978138	681.974	22.7	80.00-	120.00	100.00
3.922	3.923	-0.001	19924894	702.733	23.4	130.37-	170.37	153.53
4.152	4.153	-0.001	11974666	702.549	23.4	69.94-	109.94	92.27
4.295	4.296	-0.001	11250818	628.813	21.0	74.51-	114.51	86.69
4.475	4.476	-0.001	28843875	742.432	24.7	192.25-	232.25	222.25
Average of Peak Concentrations =					23.0			

Data File: /chem/ecdl.a.i/021710.b/014f1401.d
Date: 17-FEB-2010 08:57
Client ID: PLK02LCSD
Sample Info: 1120204472811
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl.a.i
Operator: YS4
Column diameter: 0.25



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RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecdl1a.i/021710.b/014b1401.d
 Lab Smp Id: 1202044728 Client Smp ID: PBLK02LCSD
 Inj Date : 17-FEB-2010 08:57
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202044728|1|
 Misc Info : |ECD82P_1S|953772|SVA|QC A|SOIL|LCSD|||
 Comment :
 Method : /chem/ecdl1a.i/021710.b/ECD1-B-8082-021110.m
 Meth Date : 17-Feb-2010 10:07 yip00818 Quant Type: ESTD
 Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
 Als bottle: 14 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1620.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1pl

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
\$ 11 4cmx					CAS #: 877-09-8		
2.294	2.294	0.000	32931808 114.780	3.8	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.939	5.941	-0.002	26280288 122.180	4.1	80.00- 120.00	100.00	
1 Aroclor-1016					CAS #: 12674-11-2		
3.190	3.190	0.000	7689556 618.617	20.6	80.00- 120.00	100.00(M)	
3.273	3.273	0.000	5072632 595.307	19.8	44.85- 84.85	65.97	
3.336	3.336	0.000	3105222 591.049	19.7	20.00- 60.00	40.38	
3.563	3.564	-0.001	4064298 603.725	20.1	30.97- 70.97	52.85	

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)									
3.639	3.639	0.000	3773184	596.629	19.9	27.89-	67.89	59.15	
Average of Peak Concentrations =					20.0				

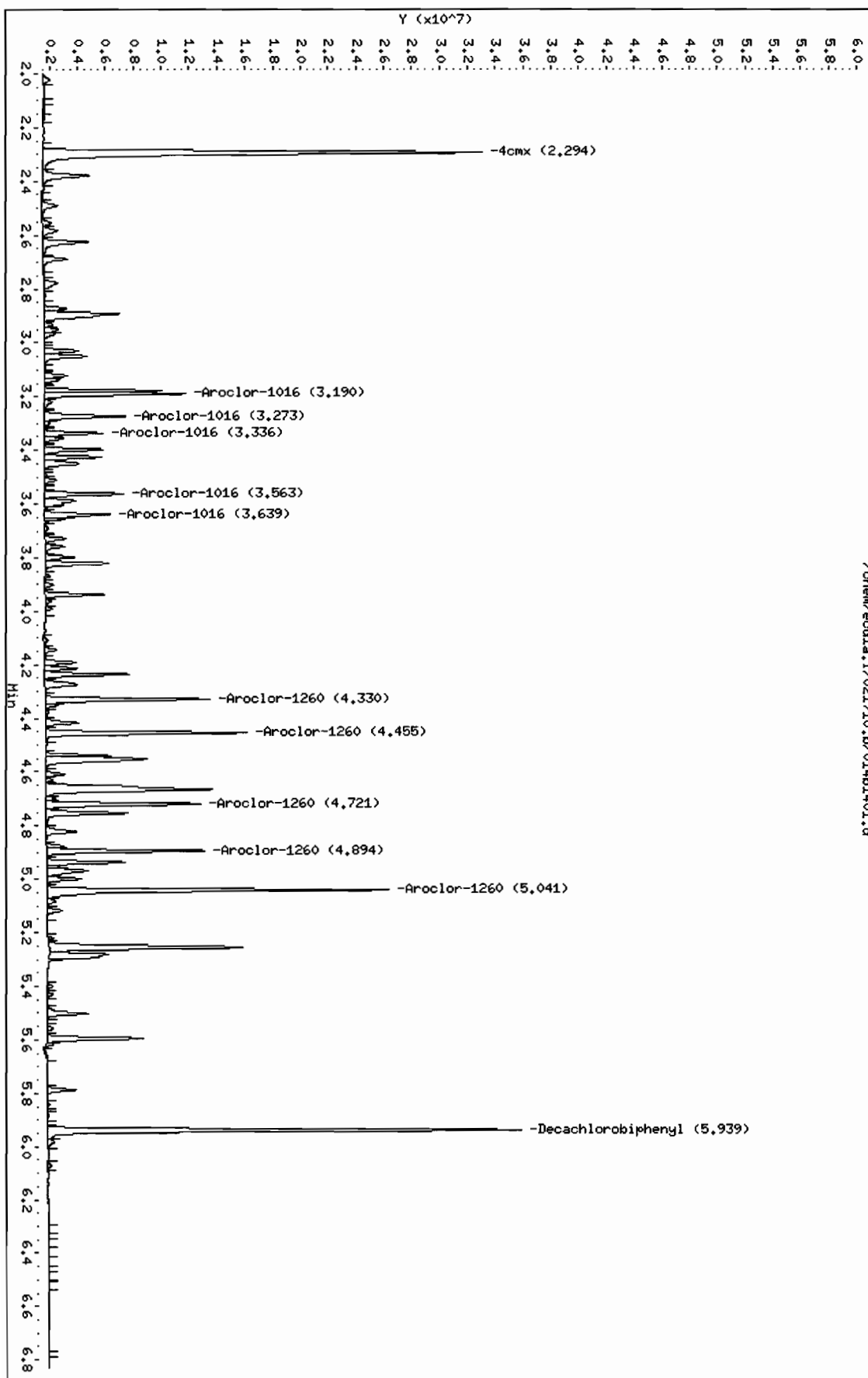
7 Aroclor-1260					CAS #: 11096-82-5				
4.330	4.330	0.000	8518877	676.507	22.6	80.00-	120.00	100.00	
4.455	4.455	0.000	10496269	696.637	23.2	101.80-	141.80	123.21	
4.721	4.721	0.000	8028493	691.041	23.0	72.40-	112.40	94.24	
4.894	4.895	-0.001	8361693	695.067	23.2	75.59-	115.59	98.15	
5.041	5.041	0.000	18869599	730.704	24.4	191.86-	231.86	221.50	
Average of Peak Concentrations =					23.3				

QC Flag Legend

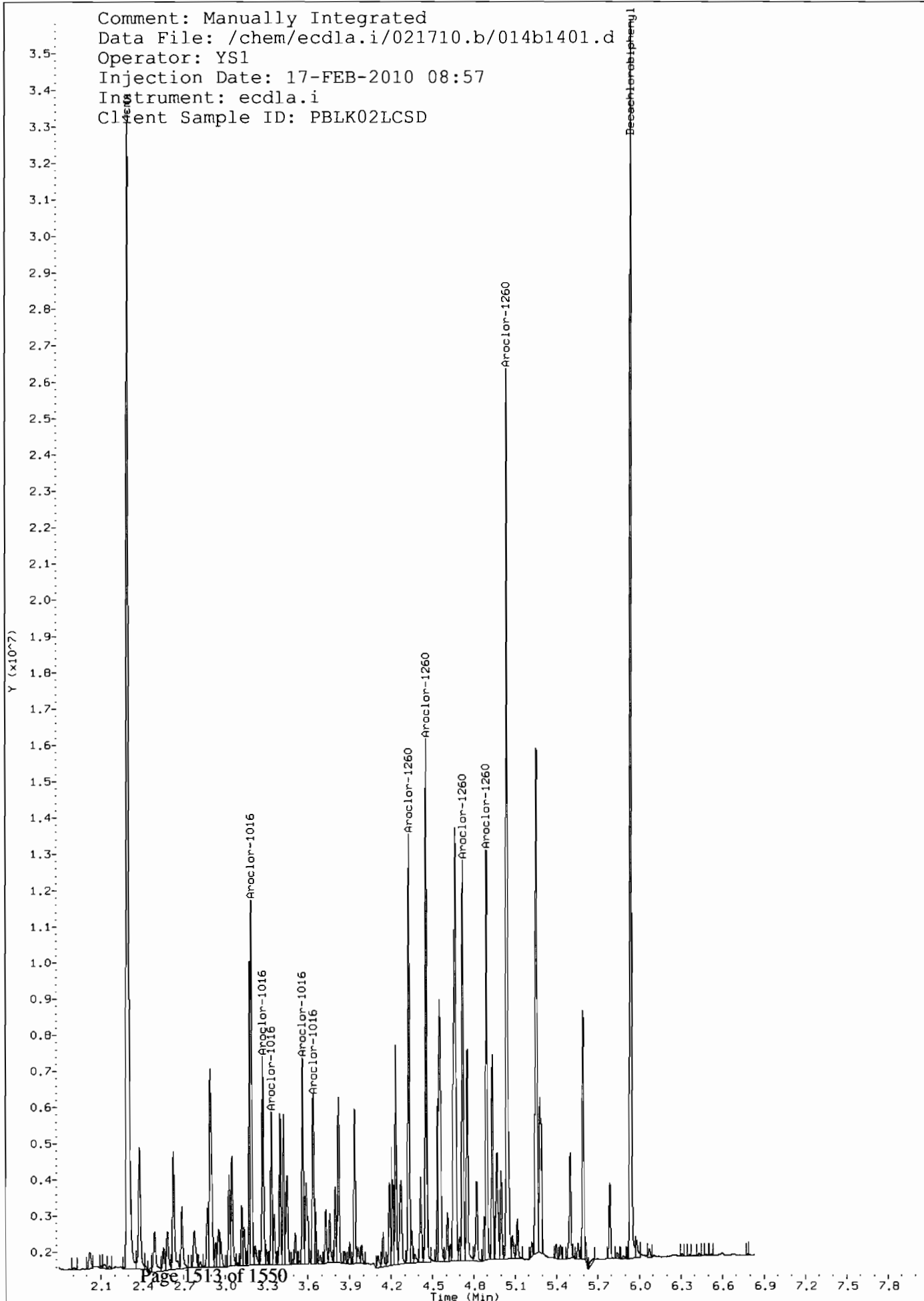
M - Compound response manually integrated.

Data File: /chem/ecdl1a.i/021710.b/014b1401.d
Date : 17-FEB-2010 08:57
Client ID: PBLK02LCSD
Sample Info: 12020472811
Volume Injected (uL): 1.0
Column phase: CLP2

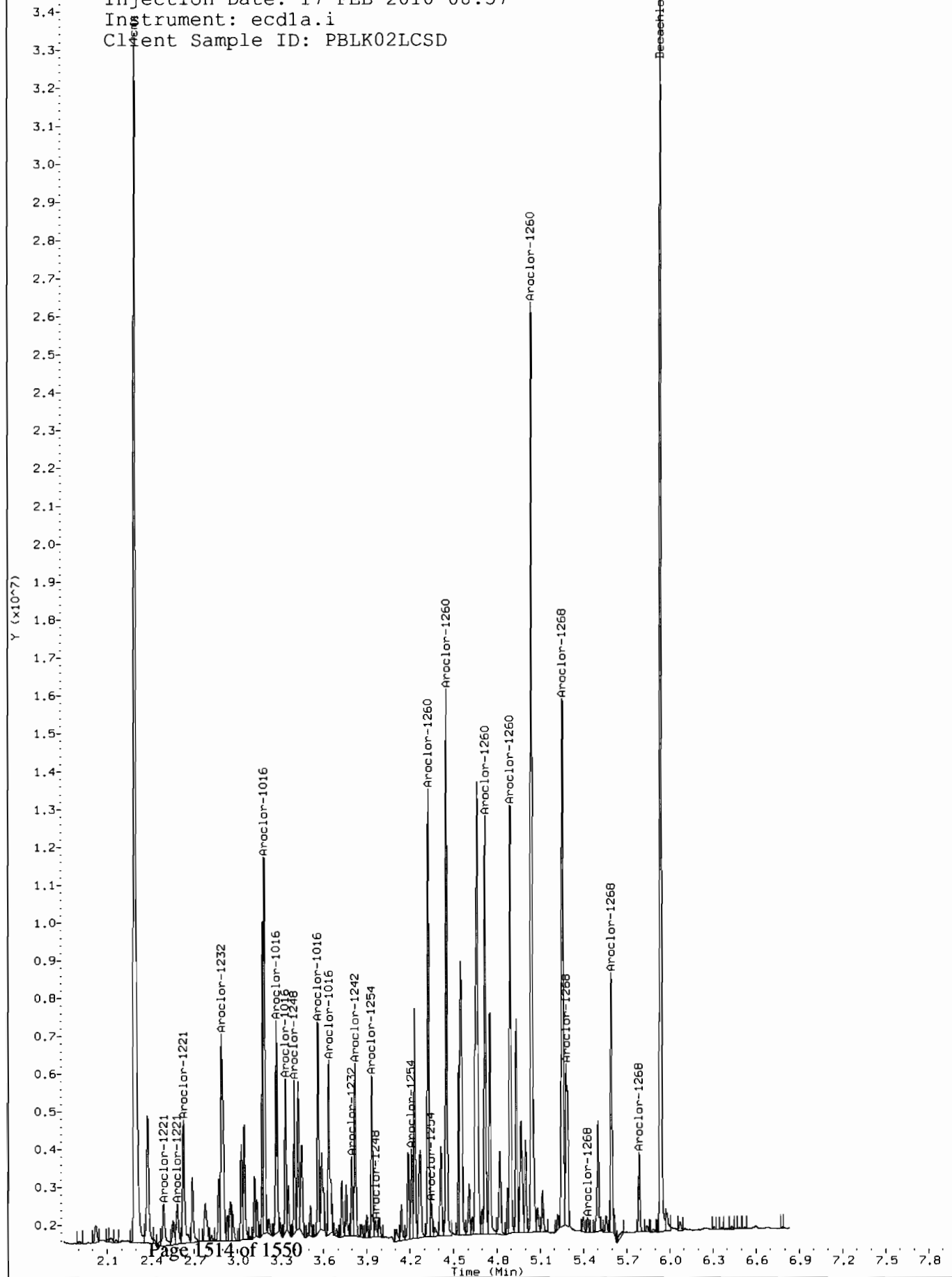
Instrument: ecdl1a.i
Operator: YS1
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdla.i/021710.b/014b1401.d
Operator: YS1
Injection Date: 17-FEB-2010 08:57
Instrument: ecdla.i
Client Sample ID: PBLK02LCSD



Comment: Before manual integration
Data File: /chem/ecdla.i/021710.b/orig-014b1401.d
Operator: YS1
Injection Date: 17-FEB-2010 08:57
Instrument: ecdla.i
Client Sample ID: PBLK02LCSD



PCB
Certificate of Analysis
Sample Summary

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SDG Number:	10-1620	Date Collected:	02/02/2010 12:00	Matrix:	R
Lab Sample ID:	1202045982	Date Received:	02/06/2010 09:15	%Moisture:	22.4
Client Sample:	QC for batch 954434	Client:	LANL010	Project:	QC
Client ID:	RE15-10-8338MS	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Batch ID:	954435	Inst:	ECD1A.I	Dilution:	1
Run Date:	02/19/2010 11:08	Analyst:	YS1	Inj. Vol:	1 uL
Prep Date:	02/18/2010 13:13	Aliquot:	30.03 g	Final Volume:	1 mL
Data File:	021f2101.d	Column:	1 CLP1	Level:	LOW
	021b2101.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		20.5	ug/kg	1.43	4.29	1
11104-28-2	Aroclor-1221	U	4.29	ug/kg	1.43	4.29	1
11141-16-5	Aroclor-1232	U	4.29	ug/kg	1.43	4.29	1
53469-21-9	Aroclor-1242	U	4.29	ug/kg	1.43	4.29	1
12672-29-6	Aroclor-1248	U	4.29	ug/kg	1.43	4.29	1
11097-69-1	Aroclor-1254	U	4.29	ug/kg	1.43	4.29	1
11096-82-5	Aroclor-1260		25.0	ug/kg	1.43	4.29	1

Report Date: 19-Feb-2010 11:55

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021910.b/021f2101.d

Lab Smp Id: 1202045982

Client Smp ID: RE15-10-8338MS

Inj Date : 19-FEB-2010 11:08

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |1202045982|1|

Misc Info : |ECD82P_1S|954435|SVA|QC A|SOIL|MS|||

Comment :

Method : /chem/ecdl1a.i/021910.b/ECD1-F-8082-021110.m

Meth Date : 19-Feb-2010 11:39 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 21

QC Sample: MS

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1620.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.03000	Weight of sample extracted (g)
M	22.37800	% Moisture

Cpnd Variable

Local Compound Variable

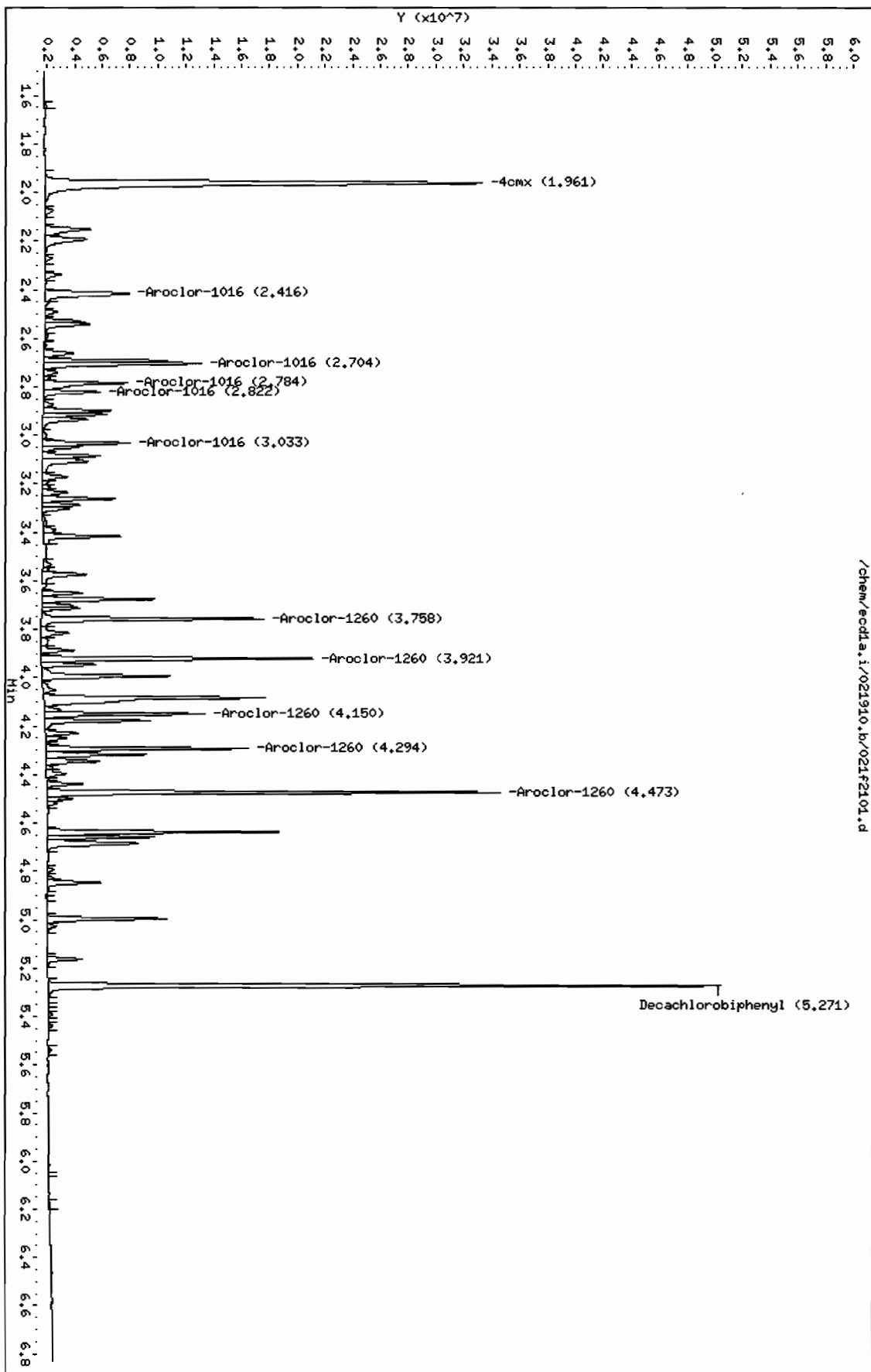
CONCENTRATIONS							
RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8			
1.961	1.960	0.001	39811659 91.0667	3.9	80.00-	120.00	100.00
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.271	5.275	-0.004	36414478 109.172	4.7	80.00-	120.00	100.00
1 Aroclor-1016				CAS #: 12674-11-2			
2.416	2.416	0.000	7446904 462.294	19.8	80.00-	120.00	100.00
2.704	2.705	-0.001	10226685 516.953	22.2	108.23-	148.23	137.33
2.784	2.785	-0.001	5960080 457.574	19.6	61.71-	101.71	80.03
2.822	2.824	-0.002	3303108 424.483	18.2	29.03-	69.03	44.36

			CONCENTRATIONS					
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)								
3.033	3.035	-0.002	5263523	525.173	22.5	44.30-	84.30	70.68
Average of Peak Concentrations =					20.5			

7 Aroclor-1260					CAS #: 11096-82-5			
3.758	3.761	-0.003	12629399	663.649	28.5	80.00-	120.00	100.00
3.921	3.924	-0.003	15043915	530.585	22.8	132.02-	172.02	119.12
4.150	4.155	-0.005	8796524	516.089	22.1	71.32-	111.32	69.65
4.294	4.297	-0.003	10551055	589.703	25.3	77.07-	117.07	83.54
4.473	4.476	-0.003	23860262	614.155	26.3	197.10-	237.10	188.93
Average of Peak Concentrations =					25.0			

Data File: /chem/ecdl.a.i/021910.b/021f2101.d
Date: 19-FEB-2010 11:08
Client ID: RE15-10-8338MS
Sample Info: 1120204598211
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl.a.i
Operator: YSI
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021910.b/021b2101.d
 Lab Smp Id: 1202045982 Client Smp ID: RE15-10-8338MS
 Inj Date : 19-FEB-2010 11:08
 Operator : YS1 Inst ID: ecdla.i
 Smp Info : |1202045982|1|
 Misc Info : |ECD82P_1S|954435|SVA|QC A|SOIL|MS|1|1|
 Comment :
 Method : /chem/ecdla.i/021910.b/ECD1-B-8082-021110.m
 Meth Date : 19-Feb-2010 11:39 yip00818 Quant Type: ESTD
 Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
 Als bottle: 21 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1620.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.03000	Weight of sample extracted (g)
M	22.37800	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO

\$ 11 4cmx							CAS #: 877-09-8	
2.293	2.292	0.001	28682053	99.9683	4.3	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl							CAS #: 2051-24-3	
5.937	5.940	-0.003	23954810	111.369	4.8	80.00- 120.00	100.00	

1 Aroclor-1016							CAS #: 12674-11-2	
3.188	3.190	-0.002	6573447	528.827	22.7	80.00- 120.00	100.00 (M)	
3.271	3.272	-0.001	4521753	530.658	22.8	45.41- 85.41	68.79	
3.334	3.335	-0.001	2773630	527.934	22.6	20.50- 60.50	42.19	
3.561	3.563	-0.002	4002096	594.486	25.5	31.45- 71.45	60.88	

CONCENTRATIONS								
RT	EXP RT	DLT RT	ON-COL		FINAL	TARGET RANGE	RATIO	
			RESPONSE (ug/L)		(ug/Kg)			
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)								
3.637	3.639	-0.002	2929195	463.175	19.9	28.64-	68.64	44.56
Average of Peak Concentrations =					22.7			

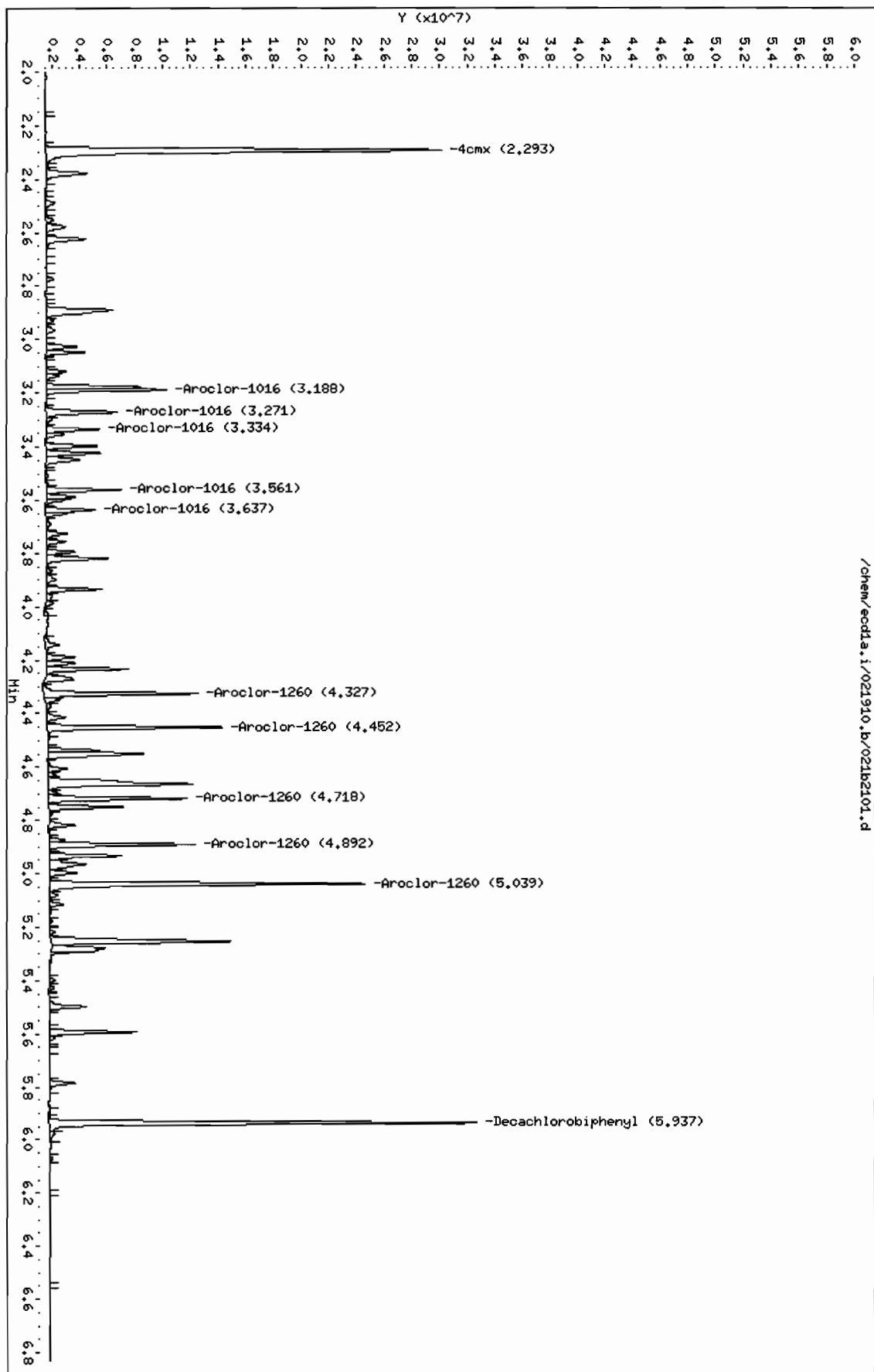
7 Aroclor-1260					CAS #: 11096-82-5			
4.327	4.330	-0.003	8497544	674.812	28.9	80.00-	120.00	100.00 (M)
4.452	4.455	-0.003	9160996	608.015	26.1	102.83-	142.83	107.81
4.718	4.720	-0.002	7331654	631.062	27.1	72.47-	112.47	86.28
4.892	4.894	-0.002	7778891	646.622	27.7	75.93-	115.93	91.54
5.039	5.041	-0.002	17293715	669.680	28.7	193.97-	233.97	203.51
Average of Peak Concentrations =					27.7			

QC Flag Legend

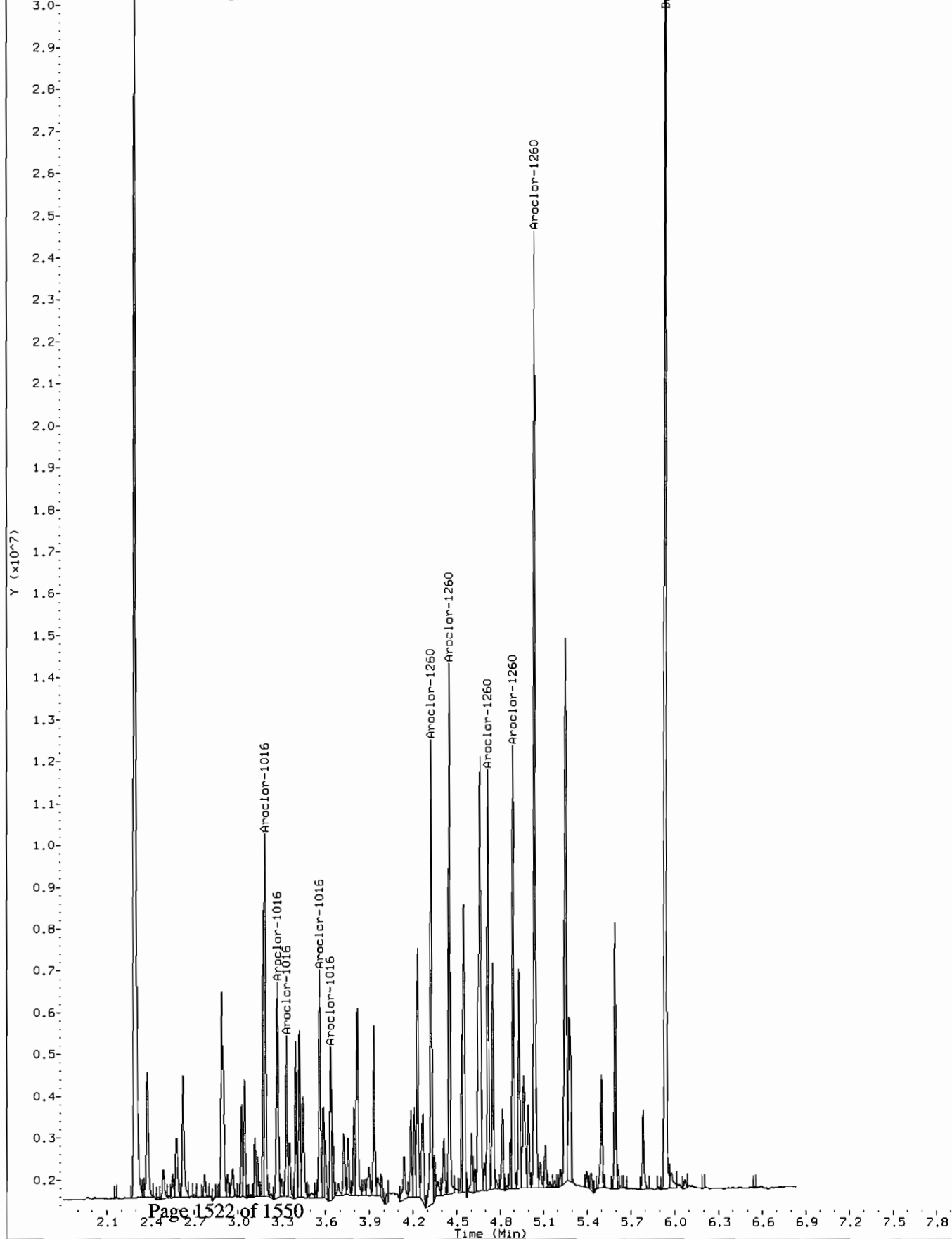
M - Compound response manually integrated.

Data File: /chem/ecdda.i/021910.b/021b2101.d
Date: 19-FEB-2010 11:08
Client ID: RELS-10-8338MS
Sample Info: 11202045982111
Volume Injected (uL): 1.0
Column phase: CLP2

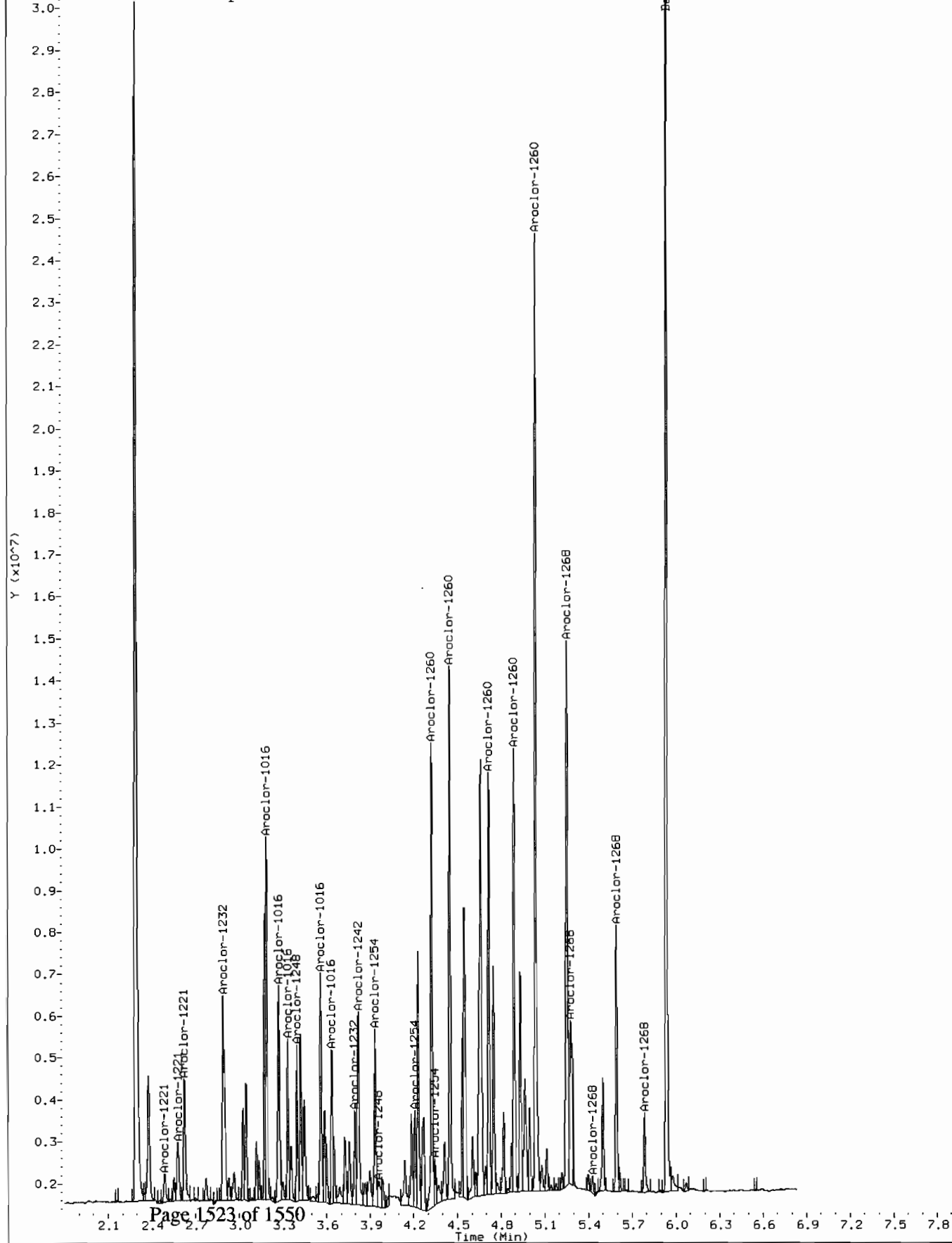
Instrument: ecdda.i
Operator: YS1
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/021910.b/021b2101.d
Operator: YS1
Injection Date: 19-FEB-2010 11:08
Instrument: ecd1a.i
Client Sample ID: RE15-10-8338MS



Comment: Before manual integration
Data File: /chem/ecdl1.i/021910.b/orig-021b2111.d
Operator: YS1
Injection Date: 19-FEB-2010 11:08
Instrument: ecd1a.i
Client Sample ID: RE15-10-8338MS



PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1620	Date Collected:	02/02/2010 12:00	Matrix:	R
Lab Sample ID:	1202045983	Date Received:	02/06/2010 09:15	%Moisture:	22.4
Client Sample:	QC for batch 954434	Client:	LANL010	Project:	QC
Client ID:	RE15-10-8338MSD	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Batch ID:	954435	Inst:	ECD1A.I	Dilution:	1
Run Date:	02/19/2010 11:20	Analyst:	YS1	Inj. Vol:	1 uL
Prep Date:	02/18/2010 13:13	Aliquot:	30.03 g	Final Volume:	1 mL
Data File:	022f2201.d	Column:	1 CLP1	Level:	LOW
	022b2201.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		20.0	ug/kg	1.43	4.29	1
11104-28-2	Aroclor-1221	U	4.29	ug/kg	1.43	4.29	1
11141-16-5	Aroclor-1232	U	4.29	ug/kg	1.43	4.29	1
53469-21-9	Aroclor-1242	U	4.29	ug/kg	1.43	4.29	1
12672-29-6	Aroclor-1248	U	4.29	ug/kg	1.43	4.29	1
11097-69-1	Aroclor-1254	U	4.29	ug/kg	1.43	4.29	1
11096-82-5	Aroclor-1260		23.7	ug/kg	1.43	4.29	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/021910.b/022f2201.d

Lab Smp Id: 1202045983

Client Smp ID: RE15-10-8338MSD

Inj Date : 19-FEB-2010 11:20

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |1202045983|1|

Misc Info : |ECD82P_1S|954435|SVA|QC A|SOIL|MSD|||

Comment :

Method : /chem/ecdl1a.i/021910.b/ECD1-F-8082-021110.m

Meth Date : 19-Feb-2010 11:39 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 22

QC Sample: MSD

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1620.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpclp1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.03000	Weight of sample extracted (g)
M	22.37800	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8			
1.962	1.960	0.002	37571269	85.9419	3.7	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.271	5.275	-0.004	35769090	107.238	4.6	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2			
2.416	2.416	0.000	7813467	485.050	20.8	80.00- 120.00	100.00 (M)	
2.704	2.705	-0.001	10422964	526.875	22.6	108.23- 148.23	133.40	
2.785	2.785	0.000	5821169	446.909	19.2	61.71- 101.71	74.50	
2.822	2.824	-0.002	2973575	382.134	16.4	29.03- 69.03	38.06	

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE		RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)									
3.032	3.035	-0.003	4899010	488.803	21.0	44.30-	84.30	62.70	
Average of Peak Concentrations =					20.0				

7 Aroclor-1260					CAS #: 11096-82-5				
3.757	3.761	-0.004	11967610	628.873	27.0	80.00-	120.00	100.00 (M)	
3.920	3.924	-0.004	14037188	495.079	21.2	132.02-	172.02	117.29	
4.150	4.155	-0.005	8115527	476.135	20.4	71.32-	111.32	67.81	
4.294	4.297	-0.003	10154054	567.514	24.3	77.07-	117.07	84.85	
4.473	4.476	-0.003	23206788	597.335	25.6	197.10-	237.10	193.91	
Average of Peak Concentrations =					23.7				

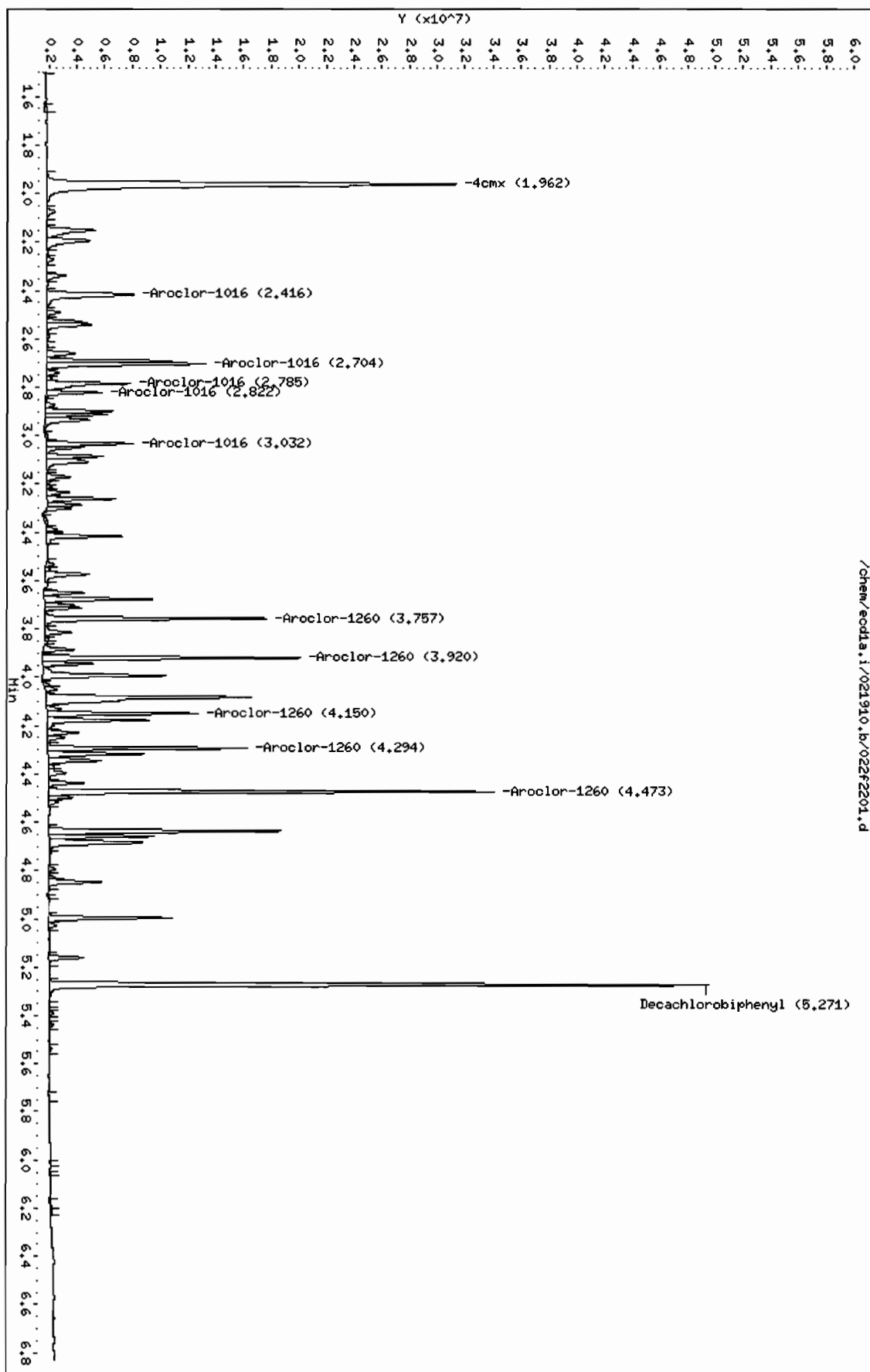
QC Flag Legend

M - Compound response manually integrated.

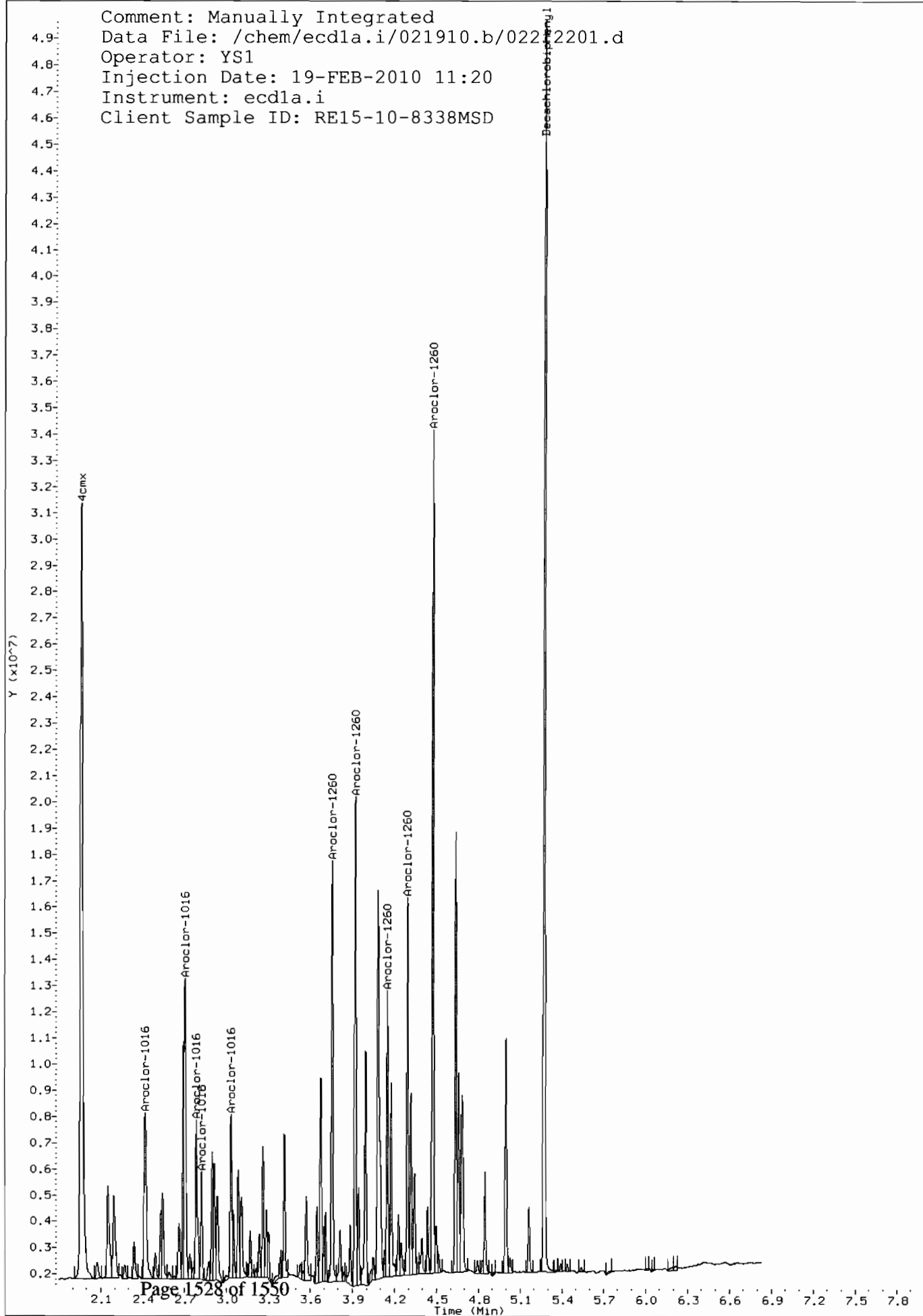
Data File: /chem/ecda.i/021910.b/022f2201.d
Date: 19-FEB-2010 11:20
Client ID: RE15-10-8338MSD
Sample Info: 1120204598311
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecda.i
Operator: YSI
Column diameter: 0.25

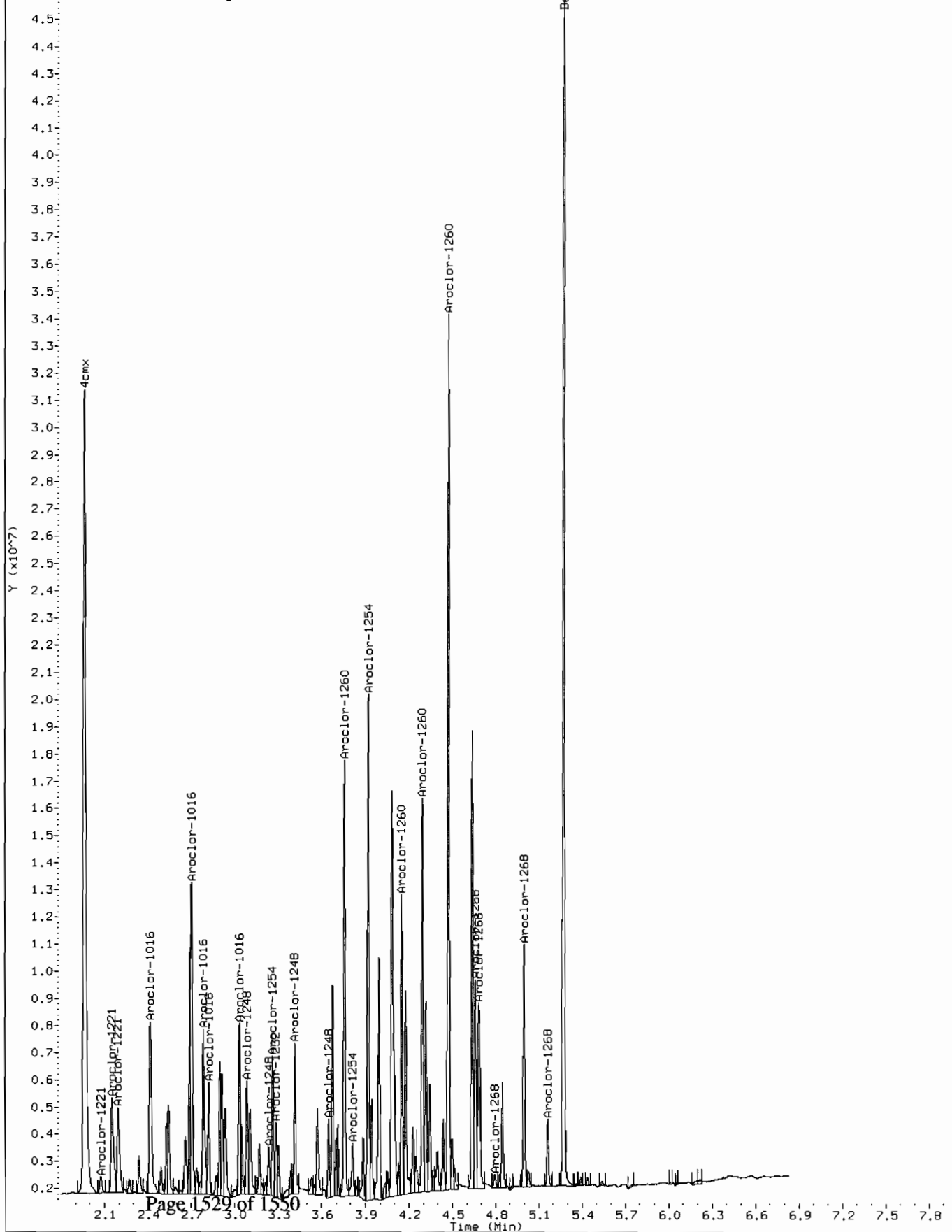
Page 1



Comment: Manually Integrated
Data File: /chem/ecdla.i/021910.b/02222201.d
Operator: YS1
Injection Date: 19-FEB-2010 11:20
Instrument: ecdla.i
Client Sample ID: RE15-10-8338MSD



Comment: Before manual integration
Data File: /chem/ecdla.i/021910.b/original-022f2201.d
Operator: YS1
Injection Date: 19-FEB-2010 11:20
Instrument: ecdla.i
Client Sample ID: RE15-10-8338MSD



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/021910.b/022b2201.d
Lab Smp Id: 1202045983 Client Smp ID: RE15-10-8338MSD
Inj Date : 19-FEB-2010 11:20
Operator : YS1 Inst ID: ecdla.i
Smp Info : |1202045983|1|
Misc Info : |ECD82P_1S|954435|SVA|QC A|SOIL|MSD|||
Comment :
Method : /chem/ecdla.i/021910.b/ECD1-B-8082-021110.m
Meth Date : 19-Feb-2010 11:39 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
Als bottle: 22 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1620.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpclp1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.03000	Weight of sample extracted (g)
M	22.37800	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx				CAS #: 877-09-8			
2.293	2.292	0.001	27113867 94.5025	4.0	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.937	5.940	-0.003	23331942 108.473	4.6	80.00- 120.00	100.00	

1 Aroclor-1016				CAS #: 12674-11-2			
3.188	3.190	-0.002	6366077 512.145	22.0	80.00- 120.00	100.00 (M)	
3.271	3.272	-0.001	4587479 538.371	23.1	45.41- 85.41	72.06	
3.335	3.335	0.000	2998350 570.707	24.5	20.50- 60.50	47.10	
3.561	3.563	-0.002	4229150 628.213	27.0	31.45- 71.45	66.43	

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE		RATIO	
==	=====	=====	=====	=====	=====	=====		=====	
1 Aroclor-1016 (continued)									
3.637	3.639	-0.002	2885665	456.291	19.6	28.64~	68.64	45.33	
Average of Peak Concentrations =					23.2				

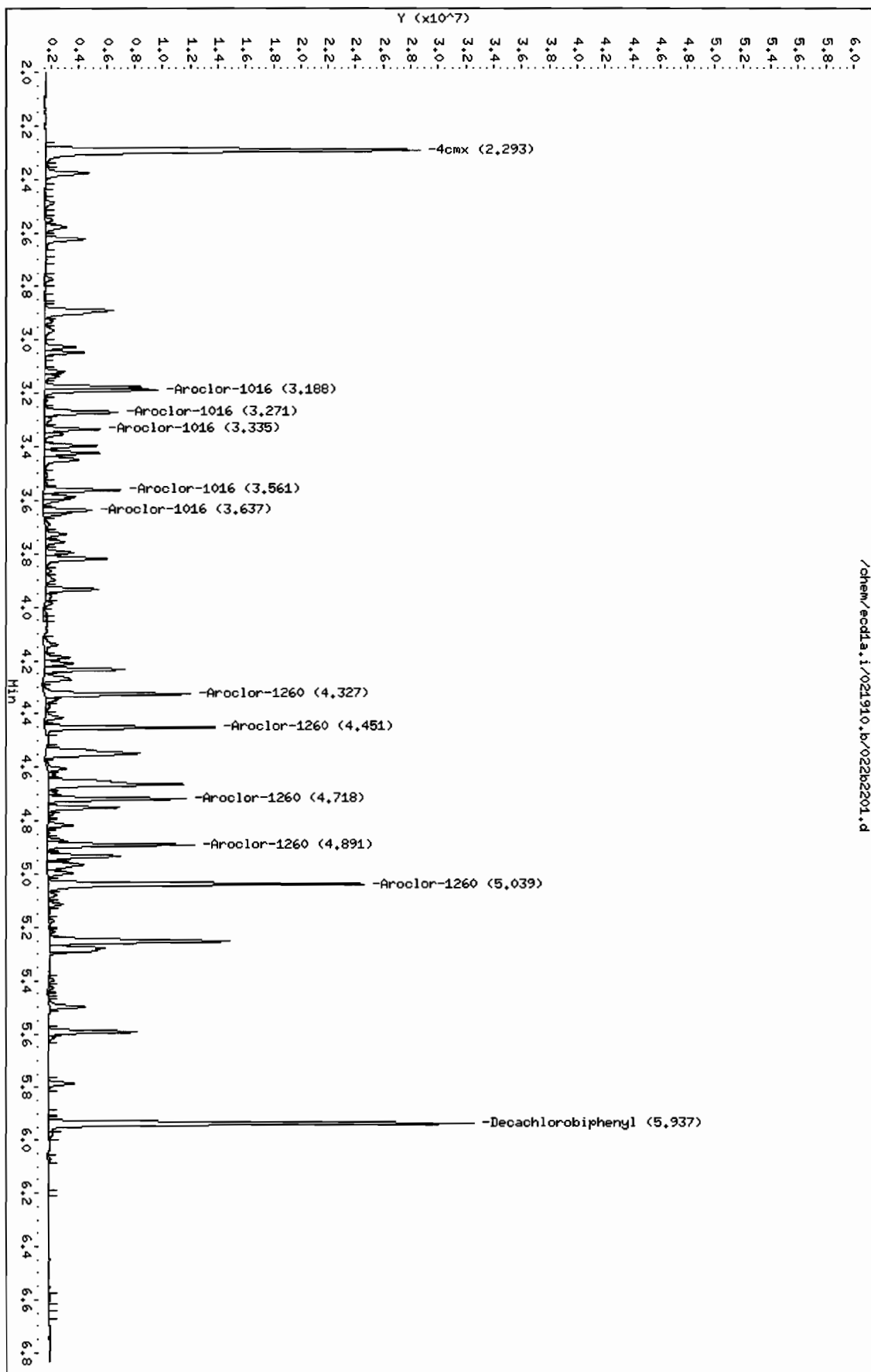
7 Aroclor-1260					CAS #: 11096-82-5				
4.327	4.330	-0.003	7864219	624.518	26.8	80.00~	120.00	100.00 (M)	
4.451	4.455	-0.004	8759633	581.376	24.9	102.83~	142.83	111.39	
4.718	4.720	-0.002	7121769	612.996	26.3	72.47~	112.47	90.56	
4.891	4.894	-0.003	7923531	658.645	28.2	75.93~	115.93	100.75	
5.039	5.041	-0.002	17372414	672.728	28.9	193.97~	233.97	220.90	
Average of Peak Concentrations =					27.0				

QC Flag Legend

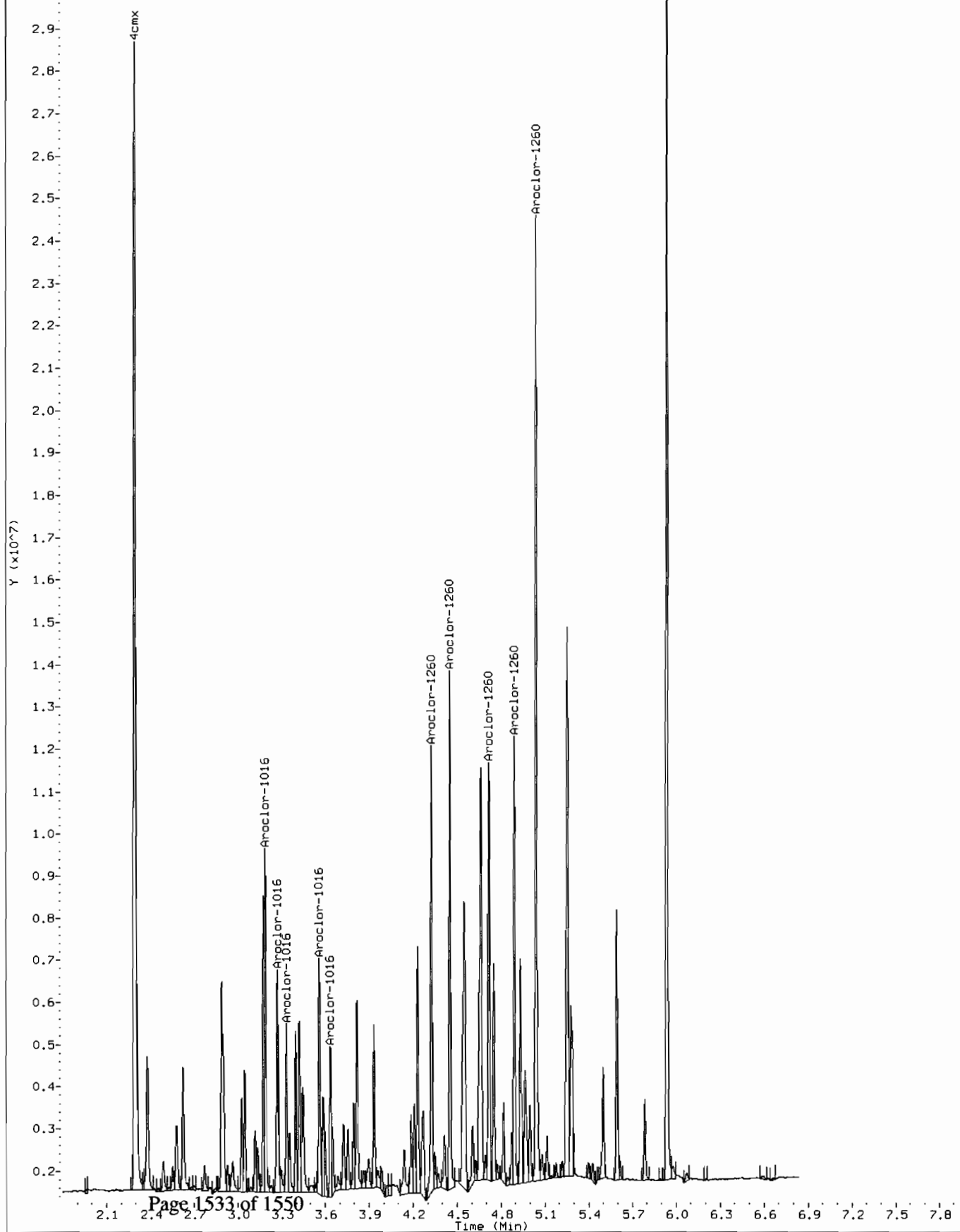
M - Compound response manually integrated.

Data File: /chem/ecd1a.i/021910.b/022b2201.d
Date: 19-FEB-2010 11:20
Client ID: REL5-10-8338MSD
Sample Info: 1120204598311
Volume Injected (uL): 1.0
Column phase: CLP2

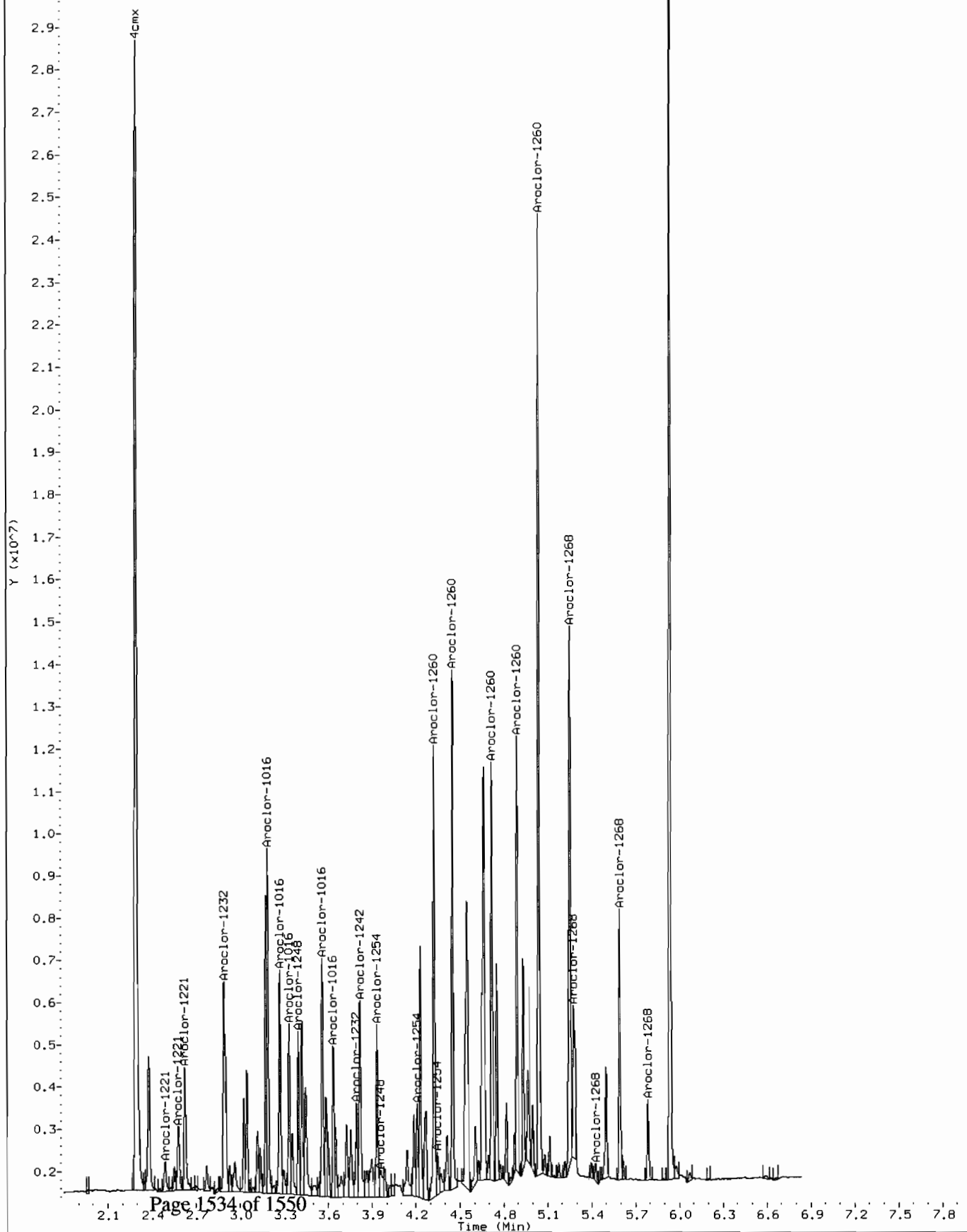
Instrument: ecd1a.i
Operator: YSL
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/021910.b/022b2201.d
Operator: YS1
Injection Date: 19-FEB-2010 11:20
Instrument: ecd1a.i
Client Sample ID: RE15-10-8338MSD



Comment: Before manual integration
Data File: /chem/ecdla.i/021910.b/orig-022b2201.d
Operator: YS1
Injection Date: 19-FEB-2010 11:20
Instrument: ecdla.i
Client Sample ID: RE15-10-8338MSD



MISCELLANEOUS DATA

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 02/11/2010 METHOD: ECD1-F-8082-021010c.m OPERATOR: YS1 REVIEWED BY: _____
DATE: _____
HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT DA699
ALUMINA LOT 1240553-A
COPPER LOT 236547-A
Calibration & QC Information
Initial Calibration Dates: See Calibration History and Standard Logbook.
Initial Calibration Std ID's: See Calibration History and Standard Logbook.
GEL SOP GL-OA-E-040 Polychlorinated Biphenyl: EPA 8082
Chromatogram Abbreviation Legend: AB-Assign Baseline, AP-Assign Peak,
DNC-Do Not Call, DMP-Doesn't Match Pattern, NC-Not Confirmed, RT-Retention Time,
BF-Before, AF-After.

Sequence Number: /chem/ecd1a.i/021010c.b Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WARI00105-99 01	YS1	10-FEB-2010 20:48		021010c	1.0	CLEAN	
002f0201.d	WARI00210-01 60	YS1	10-FEB-2010 20:58		021010c	1.0	IARI660 I-CAL LEVEL 1	
003f0301.d	WARI00210-02 60	YS1	10-FEB-2010 21:09		021010c	1.0	IARI660 I-CAL LEVEL 2	
004f0401.d	WARI00210-03 60	YS1	10-FEB-2010 21:19		021010c	1.0	IARI660 I-CAL LEVEL 3	
005f0501.d	WARI00210-04 60	YS1	10-FEB-2010 21:30		021010c	1.0	IARI660 I-CAL LEVEL 4	
006f0601.d	IARI00104-01	YS1	10-FEB-2010 21:40		021010c	1.0	IARI660 I-CAL LEVEL 5	
007f0701.d	WARI00203-60 01	YS1	10-FEB-2010 21:51		021010c	1.0	PASSED ON BOTH COLUMNS	
008f0801.d	WARI00210-05 42	YS1	10-FEB-2010 22:01		021010c	1.0	IARI242 I-CAL LEVEL 1	
009f0901.d	WARI00210-06 42	YS1	10-FEB-2010 22:12		021010c	1.0	IARI242 I-CAL LEVEL 2	
010f1001.d	WARI00210-07 42	YS1	10-FEB-2010 22:22		021010c	1.0	IARI242 I-CAL LEVEL 3	
011f1101.d	WARI00210-08 42	YS1	10-FEB-2010 22:33		021010c	1.0	IARI242 I-CAL LEVEL 4	
012f1201.d	IARI091111-01	YS1	10-FEB-2010 22:43		021010c	1.0	IARI242 I-CAL LEVEL 5	
013f1301.d	WARI091217-42	YS1	10-FEB-2010 22:54		021010c	1.0	PASSED ON BOTH COLUMNS	
014f1401.d	WARI00210-09 48	YS1	10-FEB-2010 23:04		021010c	1.0	DUSE	
015f1501.d	WARI00210-10 48	YS1	10-FEB-2010 23:15		021010c	1.0	DUSE	

Instrument Batch: /chem/ecd1a.i/021010c.b

Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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016f1601.d	WAR100210-11 48	YS1	10-FEB-2010 23:25		021010c		1.0	DUSE	
017f1701.d	WAR100210-12 48	YS1	10-FEB-2010 23:36		021010c		1.0	DUSE	
|018f1801.d	|IAR091027-02	|YS1	|10-FEB-2010 23:46	|	|021010c	|	1.0|	|DUSE	|
|019f1901.d	|WAR091217-48	|YS1	|10-FEB-2010 23:57	|	|021010c	|	1.0|	|DUSE	|
|020f2001.d	|WAR100105-99 02	|YS1	|11-FEB-2010 00:07	|	|021010c	|	1.0|	|CLEAN	|

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 02/16/2010 METHOD: ECD1-F-8082-021110.m OPERATOR:YS1 REVIEWED BY: _____
DATE: _____
HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT DA699
ALUMINA LOT 1240553-A
COPPER LOT 236547-A

Calibration & QC Information
Initial Calibration Dates: See Calibration History and Standard Logbook.
Initial Calibration Std ID's: See Calibration History and Standard Logbook.
GEL SOP GL-OA-E-040 Polychlorinated Biphenyl: EPA 8082
Chromatogram Abbreviation Legend: AB-Assign Baseline, AP-Assign Peak,
DNC-Do Not Call, DMP-Doesn't Match Pattern, NC-Not Confirmed, RT-Retention Time,
BF-Before, AF-After.

Sequence Number: /chem/ecd1a.i/021510.b Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR100105-99 01	YS1	15-FEB-2010 07:13		021510	1.0	CLEAN	
002f0201.d	WAR100203-60 01	YS1	15-FEB-2010 07:24		021510	1.0	PASSED ON BOTH COLUMNS	
003f0301.d	WAR091216-54	YS1	15-FEB-2010 07:34		021510	1.0	PASSED ON BOTH COLUMNS	
004f0401.d	WAR091217-42	YS1	15-FEB-2010 07:45		021510	1.0	PASSED ON BOTH COLUMNS	
005f0501.d	WAR091217-48	YS1	15-FEB-2010 07:55		021510	1.0	PASSED ON BOTH COLUMNS	
006f0601.d	WAR100104-32	YS1	15-FEB-2010 08:06		021510	1.0	PATTERN ONLY	
007f0701.d	WAR100104-21	YS1	15-FEB-2010 08:16		021510	1.0	PATTERN ONLY	
008f0801.d	WAR100104-62	YS1	15-FEB-2010 08:27		021510	1.0	PATTERN ONLY	
009f0901.d	WAR100107-68	YS1	15-FEB-2010 08:37		021510	1.0	PATTERN ONLY	
010f1001.d	WAR091219-DDT	YS1	15-FEB-2010 08:48		021510	1.0	DOT ANALOG STANDARD	
011f1101.d	WAR100105-99 02	YS1	15-FEB-2010 08:59		021510	1.0	CLEAN	
012f1201.d	1202040851	YS1	15-FEB-2010 09:09	952200	10-1721	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
013f1301.d	1202040852	YS1	15-FEB-2010 09:20	952200	10-1721	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
014f1401.d	1246707002	YS1	15-FEB-2010 09:30	952200	10-1726	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
015f1501.d	1202040853	YS1	15-FEB-2010 09:41	952200	10-1726	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecd1a.i/021510.b

Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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016f1601.d	1202040854	YS1	15-FEB-2010 09:51	952200	10-1726	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
017f1701.d	246764002	YS1	15-FEB-2010 10:02	952200	10-1721	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
018f1801.d	100203-60 02	YS1	15-FEB-2010 10:13	021510	1.0			PASSED ON BOTH COLUMNS
019f1901.d	100105-99 03	YS1	15-FEB-2010 10:23	021510	1.0			CLEAN
020f2001.d	1202040495	YS1	15-FEB-2010 10:34	952059	10-1601	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
021f2101.d	1202040496	YS1	15-FEB-2010 10:44	952059	10-1601	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
022f2201.d	246315001	YS1	15-FEB-2010 10:55	952059	10-1601	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
023f2301.d	246315002	YS1	15-FEB-2010 11:05	952059	10-1601	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
024f2401.d	246315003	YS1	15-FEB-2010 11:16	952059	10-1601	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
025f2501.d	246320002	YS1	15-FEB-2010 11:26	952059	10-1602	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
026f2601.d	246320003	YS1	15-FEB-2010 11:37	952059	10-1602	5.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
027f2701.d	246320004	YS1	15-FEB-2010 11:47	952059	10-1602	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
028f2801.d	246320005	YS1	15-FEB-2010 11:58	952059	10-1602	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
029f2901.d	246320006	YS1	15-FEB-2010 12:11	952059	10-1602	5.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
030f3001.d	100203-60 03	YS1	15-FEB-2010 12:23	021510	1.0			PASSED ON BOTH COLUMNS
031f3101.d	100105-99 04	YS1	15-FEB-2010 12:34	021510	1.0			CLEAN
032f3201.d	246320007	YS1	15-FEB-2010 12:44	952059	10-1602	5.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
033f3301.d	246338001	YS1	15-FEB-2010 12:55	952059	10-1605	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
034f3401.d	246338002	YS1	15-FEB-2010 13:05	952059	10-1605	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
035f3501.d	246434010	YS1	15-FEB-2010 13:16	952059	10-1620	1.0	LANL	DUSE SURROGATE LOW

Instrument Batch: /chem/ecdla.i/021510.b

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036f3601.d	1202040497	YS1	15-FEB-2010 13:26	952059	10-1620	1.0	QC A	DUSE SURROGATE PASSED
037f3701.d	1202040499	YS1	15-FEB-2010 13:37	952059	10-1620	1.0	QC A	DUSE SURROGATE PASSED
038f3801.d	246434010	YS1	15-FEB-2010 13:47	952059	10-1620	1.0	LANL	DUSE CONFIRMS FILE 35 WAS NOT A BAD INJECTION
039f3901.d	246434011	YS1	15-FEB-2010 13:58	952059	10-1620	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
040f4001.d	246434012	YS1	15-FEB-2010 14:08	952059	10-1620	1.0	LANL	DUSE RE 4CMX LOW

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 02/18/2010 METHOD: ECD1-F-8082-021110.m OPERATOR:YS1 REVIEWED BY: _____
DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT

Calibration & QC Information

Initial Calibration Dates: See Calibration History and Standard Logbook.

Initial Calibration Std ID's: See Calibration History and Standard Logbook.

GEL SOP GL-OA-E-040 Polychlorinated Biphenyl: EPA 8082

Chromatogram Abbreviation Legend: AB-Assign Baseline, AP-Assign Peak,

DNC-Do Not Call, DMP-Doesn't Match Pattern, NC-Not Confirmed, RT-Retention Time,

BF-Before, AF-After.

Sequence Number: /chem/ecd1a.i/021710.b Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	IWAR100105-99 01	YS1	17-FEB-2010 06:36		021710	1.01	CLEAN	
002f0201.d	IWAR100203-60 01	YS1	17-FEB-2010 06:47		021710	1.01	PASSED ON BOTH COLUMNS	
003f0301.d	IWAR091216-54	YS1	17-FEB-2010 06:57		021710	1.01	PASSED ON BOTH COLUMNS	
004f0401.d	IWAR091217-42	YS1	17-FEB-2010 07:08		021710	1.01	PASSED ON BOTH COLUMNS	
005f0501.d	IWAR091217-48	YS1	17-FEB-2010 07:18		021710	1.01	PASSED ON BOTH COLUMNS	
006f0601.d	IWAR100107-68	YS1	17-FEB-2010 07:29		021710	1.01	PASSED ON BOTH COLUMNS	
007f0701.d	IWAR100104-32	YS1	17-FEB-2010 07:39		021710	1.01	PATTERN ONLY	
008f0801.d	IWAR100104-21	YS1	17-FEB-2010 07:50		021710	1.01	PATTERN ONLY	
009f0901.d	IWAR100104-62	YS1	17-FEB-2010 08:00		021710	1.01	PATTERN ONLY	
010f1001.d	IWAR091219-DDT	YS1	17-FEB-2010 08:11		021710	1.01	DDT ANALOG STANDARD	
011f1101.d	IWAR100105-99 02	YS1	17-FEB-2010 08:21		021710	1.01	CLEAN	
012f1201.d	I1202044726	YS1	17-FEB-2010 08:32	953772	110-1620	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER	
013f1301.d	I1202044727	YS1	17-FEB-2010 08:45	953772	110-1620	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER	
014f1401.d	I1202044728	YS1	17-FEB-2010 08:57	953772	110-1620	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER	
015f1501.d	I246434010	YS1	17-FEB-2010 09:10	953772	110-1620	1.01LANL	DUSE RE RESULT DID NOT MATCH WIOTH ORIGINAL	

Instrument Batch: /chem/ecd1a.i/021710.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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016f1601.d 246434012	YS1	17-FEB-2010 09:22	953772	10-1620		1.0 LANL		UPLOAD BOTH COLUMNS, USE HIGHER
|017f1701.d |WAR100203-60 02	|YS1	|17-FEB-2010 09:35	|	|021710	|	1.0|	|	PASSED ON BOTH COLUMNS
|018f1801.d |WAR100105-99 03	|YS1	|17-FEB-2010 09:46	|	|021710	|	1.0|	|	CLEAN
|019f1901.d |1202043864	|YS1	|17-FEB-2010 09:56	|953409	|021710	|	1.0|QC A	|	UPLOAD BOTH COLUMNS, USE FRONT
|020f2001.d |1202043865	|YS1	|17-FEB-2010 10:07	|953409	|	|	1.0|QC A	|	UPLOAD BOTH COLUMNS, USE FRONT
|021f2101.d |1202043868	|YS1	|17-FEB-2010 10:17	|953409	|	|	1.0|QC A	|	UPLOAD BOTH COLUMNS, USE FRONT
|022f2201.d |246412001	|YS1	|17-FEB-2010 10:28	|953409	|246412	|	10.0|MECP	|	UPLOAD BOTH COLUMNS, USE FRONT
|023f2301.d |246415001	|YS1	|17-FEB-2010 10:41	|953409	|246415	|	100.0|MECP	|	UPLOAD BOTH COLUMNS, USE FRONT
|024f2401.d |246504001	|YS1	|17-FEB-2010 10:53	|953409	|246504	|	10.0|MECP	|	UPLOAD BOTH COLUMNS, USE FRONT
|025f2501.d |1202043866	|YS1	|17-FEB-2010 11:06	|953409	|021710	|	10.0|QC A	|	UPLOAD BOTH COLUMNS, USE FRONT
|026f2601.d |1202043867	|YS1	|17-FEB-2010 11:18	|953409	|021710	|	10.0|QC A	|	UPLOAD BOTH COLUMNS, USE FRONT
|027f2701.d |246504002	|YS1	|17-FEB-2010 11:31	|953409	|246504	|	1.0|MECP	|	DUSE RE
|028f2801.d |246615001	|YS1	|17-FEB-2010 11:44	|	|246615	|	1.0|MECP	|	UPLOAD BOTH COLUMNS, USE FRONT
|029f2901.d |WAR100203-60 03	|YS1	|17-FEB-2010 12:07	|	|021710	|	1.0|	|	PASSED ON BOTH COLUMNS
|030f3001.d |WAR100105-99 04	|YS1	|17-FEB-2010 12:17	|	|021710	|	1.0|	|	CLEAN
|031f3101.d |246904001	|YS1	|17-FEB-2010 12:28	|953409	|246904	|	1.0|MECP	|	UPLOAD BOTH COLUMNS, USE FRONT
|032f3201.d |246906001	|YS1	|17-FEB-2010 12:40	|953409	|246906	|	10.0|MECP	|	UPLOAD BOTH COLUMNS, USE FRONT
|033f3301.d |246911001	|YS1	|17-FEB-2010 12:53	|953409	|246911	|	5.0|MECP	|	UPLOAD BOTH COLUMNS, USE FRONT
|034f3401.d |246909001	|YS1	|17-FEB-2010 13:05	|953409	|246909	|	100.0|MECP	|	UPLOAD BOTH COLUMNS, USE FRONT
035f3501.d 247025001	YS1	17-FEB-2010 13:18	953409	247025		10.0 MECP		UPLOAD BOTH COLUMNS, USE FRONT

Instrument Batch: /chem/ecdla.i/021710.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
036f3601.d	246909001	YS1	17-FEB-2010 13:37	953409	246909	20.0	MECP	UPLOAD BOTH COLUMNS, USE FRONT
037f3701.d	WAR100203-60 04	YS1	17-FEB-2010 13:51		021710	1.0		PASSED ON BOTH COLUMNS
038f3801.d	WAR100105-99 05	YS1	17-FEB-2010 14:02		021710	1.0		CLEAN
039f3901-1.d	1202043869	YS1	17-FEB-2010 14:12	953412	10-1665	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
039f3901.d	1202043869	YS1	17-FEB-2010 14:12	953412	10-1672	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER

1040f4001.d	1202043870	YS1	17-FEB-2010 14:25	953412	10-1665	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1040f4001.d	1202043870	YS1	17-FEB-2010 14:25	953412	10-1672	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1041f4101.d	1246554001	YS1	17-FEB-2010 14:38	953412	10-1665	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1042f4201.d	1246554002	YS1	17-FEB-2010 14:50	953412	10-1665	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1043f4301.d	1246554003	YS1	17-FEB-2010 15:03	953412	10-1665	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1044f4401.d	1246554004	YS1	17-FEB-2010 15:16	953412	10-1665	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1045f4501.d	1246554005	YS1	17-FEB-2010 15:28	953412	10-1665	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1046f4601.d	1246554006	YS1	17-FEB-2010 15:41	953412	10-1665	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1047f4701.d	100203-60 05	YS1	17-FEB-2010 15:53		1021710	1.0		PASSED ON BOTH COLUMNS
1048f4801.d	100105-99 06	YS1	17-FEB-2010 16:04		1021710	1.0		CLEAN
1049f4901.d	1246558001	YS1	17-FEB-2010 16:15	953412	10-1672	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1050f5001.d	1202043871	YS1	17-FEB-2010 16:27	953412	10-1672	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1051f5101.d	1202043872	YS1	17-FEB-2010 16:40	953412	10-1672	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdla.i/021710.b

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1052f5201.d	1246558002	YS1	17-FEB-2010 16:53	953412	10-1672	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1053f5301.d	1246558003	YS1	17-FEB-2010 17:05	953412	10-1672	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1054f5401.d	1246558004	YS1	17-FEB-2010 17:18	953412	10-1672	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1055f5501.d	1246558005	YS1	17-FEB-2010 17:31	953412	10-1672	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1056f5601.d	1246558006	YS1	17-FEB-2010 17:43	953412	10-1672	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1057f5701.d	1246558007	YS1	17-FEB-2010 17:56	953412	10-1672	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1058f5801.d	1246558008	YS1	17-FEB-2010 18:08	953412	10-1672	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1059f5901.d	100203-60 06	YS1	17-FEB-2010 18:21		1021710	1.0		PASSED ON BOTH COLUMNS
1060f6001.d	100105-99 07	YS1	17-FEB-2010 18:32		1021710	1.0		CLEAN
1061f6101.d	1246558009	YS1	17-FEB-2010 18:42	953412	10-1672	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1062f6201.d	1246558010	YS1	17-FEB-2010 18:55	953412	10-1672	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER

063f6301.d	124655801.1	YS1	17-FEB-2010 19:07	1953412	110-1672	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
064f6401.d	WAR100203-60 07	YS1	17-FEB-2010 19:20		021710	1.0		PASSED ON BOTH COLUMNS
065f6501.d	WAR100105-99 08	YS1	17-FEB-2010 19:31		021710	1.0		CLEAN
066f6601.d	1202044910	YS1	17-FEB-2010 19:41	1953880	1247000		1.0	QC A DUSE
067f6701.d	1202044911	YS1	17-FEB-2010 19:52	1953880	1247000		1.0	QC A DUSE
068f6801.d	1247000001	YS1	17-FEB-2010 20:02	1953880	1247000		5.0	EMSC DUSE
069f6901.d	1202044912	YS1	17-FEB-2010 20:13	1953880	1247000		5.0	QC A DUSE
070f7001.d	1202044913	YS1	17-FEB-2010 20:23	1953880	1247000		5.0	QC A DUSE
071f7101.d	1247000002	YS1	17-FEB-2010 20:34	1953880	1247000		20.0	EMSC DUSE

Instrument Batch: /chem/ecdl1a.i/021710.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
072f7201.d	1247000003	YS1	17-FEB-2010 20:44	1953880	1247000		200.0	EMSC DUSE
073f7301.d	1247000004	YS1	17-FEB-2010 20:55	1953880	1247000		5.0	EMSC DUSE
074f7401.d	WAR100203-60 08	YS1	17-FEB-2010 21:06		021710	1.0		ARI260 LOW ON BACK RE-RUN THE BATCH
075f7501.d	WAR100105-99 09	YS1	17-FEB-2010 21:16		021710	1.0		CLEAN

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 02/19/2010 METHOD: ECD1-F-8082-021110.m OPERATOR:YS1 REVIEWED BY: _____
DATE: _____
HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT DA699
ALUMINA LOT 1240553-A
COPPER LOT 236547-A
Calibration & QC Information
Initial Calibration Dates: See Calibration History and Standard Logbook.
Initial Calibration Std ID's: See Calibration History and Standard Logbook.
GEL SOP GL-OA-E-040 Polychlorinated Biphenyl: EPA 8082
Chromatogram Abbreviation Legend: AB-Assign Baseline, AP-Assign Peak,
DNC-Do Not Call, DMP-Doesn't Match Pattern, NC-Not Confirmed, RT-Retention Time,
BF-Before, AF-After.

Sequence Number: /chem/ecd1a.i/021910.b

Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR100105-99 01	YS1	19-FEB-2010 07:09		021910	1.0	CLEAN	
002f0201.d	WAR100203-60 01	YS1	19-FEB-2010 07:20		021910	1.0	PASSED ON BOTH COLUMNS	
003f0301.d	WAR091216-54	YS1	19-FEB-2010 07:30		021910	1.0	PASSED ON BOTH COLUMNS	
004f0401.d	WAR091217-42	YS1	19-FEB-2010 07:41		021910	1.0	PASSED ON BOTH COLUMNS	
005f0501.d	WAR091217-48	YS1	19-FEB-2010 08:15		021910	1.0	PATTERN ONLY	
006f0601.d	WAR100104-32	YS1	19-FEB-2010 08:26		021910	1.0	PATTERN ONLY	
007f0701.d	WAR100104-21	YS1	19-FEB-2010 08:36		021910	1.0	PATTERN ONLY	
008f0801.d	WAR100104-62	YS1	19-FEB-2010 08:47		021910	1.0	PATTERN ONLY	
009f0901.d	WAR100107-68	YS1	19-FEB-2010 08:57		021910	1.0	PATTERN ONLY	
010f1001.d	WAR091219-DDT	YS1	19-FEB-2010 09:08		021910	1.0	DDT ANALOG STANDARD	
011f1101.d	WAR100105-99 02	YS1	19-FEB-2010 09:18		021910	1.0	CLEAN	
012f1201.d	1202046182	YS1	19-FEB-2010 09:29	954527	021910	1.0	QC A	UPLOAD BOTH COLUMNS, USE FRONT
013f1301.d	1202046183	YS1	19-FEB-2010 09:40	954527		1.0	QC A	UPLOAD BOTH COLUMNS, USE FRONT
014f1401.d	1202046184	YS1	19-FEB-2010 09:50	954527		1.0	QC A	UPLOAD BOTH COLUMNS, USE FRONT
015f1501.d	1246504002	YS1	19-FEB-2010 10:01	954527	1246504	1.0	MECP	UPLOAD BOTH COLUMNS, USE FRONT

Instrument Batch: /chem/ecd1a.i/021910.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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016f1601.d	WAR100203-60 02	YS1	19-FEB-2010 10:13		021910		1.0		ARI016 LOW ON LOW, NO HIT	
|017f1701.d	|WAR100105-99 03	|YS1	|19-FEB-2010 10:24	|	|021910	|	|1.0|	|	|CLEAN	|
|018f1801.d	|1202045980	|YS1	|19-FEB-2010 10:34	|954435	|10-1620	|	|1.0|QC A	|	|UPLOAD BOTH COLUMNS, USE HIGHER	|
|019f1901.d	|1202045981	|YS1	|19-FEB-2010 10:45	|954435	|10-1620	|	|1.0|QC A	|	|UPLOAD BOTH COLUMNS, USE HIGHER	|
|020f2001.d	|1246434010	|YS1	|19-FEB-2010 10:55	|954435	|10-1620	|	|1.0|LANL	|	|UPLOAD BOTH COLUMNS, USE HIGHER	|
|021f2101.d	|1202045982	|YS1	|19-FEB-2010 11:08	|954435	|10-1620	|	|1.0|QC A	|	|UPLOAD BOTH COLUMNS, USE HIGHER	|
|022f2201.d	|1202045983	|YS1	|19-FEB-2010 11:20	|954435	|10-1620	|	|1.0|QC A	|	|UPLOAD BOTH COLUMNS, USE HIGHER	|
|023f2301.d	|1247033002	|YS1	|19-FEB-2010 11:33	|954435	|10-1821	|	|1.0|LANL	|	|UPLOAD BOTH COLUMNS, USE HIGHER	|
|024f2401.d	|WAR100203-60 03	|YS1	|19-FEB-2010 11:55	|	|021910	|	|1.0|	|	|ARI016 LOW ON FRONT, NO HIT	|
|025f2501.d	|WAR100105-99 04	|YS1	|19-FEB-2010 12:06	|	|021910	|	|1.0|	|	|CLEAN	|

Prep Logbook

Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 952047
Analyst: Robin Hunt
Method: SW846 3550B

Verified by: _____

Lab SOP: GL-OA-E-010 REV# 18
Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Clean Up	Prior to Clean up (mL)	Amount Cleaned (mL)	After Clean up (mL)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202040495 MB	12-FEB--2010 12:41:00	30	H2SO4/KMn	1	8	1	0.03333	
1202040496 LCS	12-FEB--2010 12:41:00	30	H2SO4/KMn	1	8	1	0.03333	
246315001	12-FEB--2010 12:41:00	30.05	H2SO4/KMn	1	8	1	0.03328	
246315002	12-FEB--2010 12:41:00	30.03	H2SO4/KMn	1	8	1	0.0333	
246315003	12-FEB--2010 12:41:00	30.02	H2SO4/KMn	1	8	1	0.03331	
246320002	12-FEB--2010 12:41:00	30.04	H2SO4/KMn	1	8	1	0.03329	
246320003	12-FEB--2010 12:41:00	30	H2SO4/KMn	1	8	1	0.03333	
246320004	12-FEB--2010 12:41:00	30	H2SO4/KMn	1	8	1	0.03333	
246320005	12-FEB--2010 12:41:00	30	H2SO4/KMn	1	8	1	0.03333	
246320006	12-FEB--2010 12:41:00	30	H2SO4/KMn	1	8	1	0.03331	
246320007	12-FEB--2010 12:41:00	30.02	H2SO4/KMn	1	8	1	0.03333	
246338001	12-FEB--2010 12:41:00	30.05	H2SO4/KMn	1	8	1	0.03328	
246338002	12-FEB--2010 12:41:00	30	H2SO4/KMn	1	8	1	0.03333	
24634010	12-FEB--2010 12:41:00	30.02	H2SO4/KMn	1	8	1	0.03331	
1202040497 MS (246434010)	12-FEB--2010 12:41:00	30.05	H2SO4/KMn	1	8	1	0.03328	
1202040498 MSD (246434010)	12-FEB--2010 12:41:00	30.04	H2SO4/KMn	1	8	1	0.03329	
246434011	12-FEB--2010 12:41:00	30	H2SO4/KMn	1	8	1	0.03333	
246434012	12-FEB--2010 12:41:00	30.01	H2SO4/KMn	1	8	1	0.03332	
246434013	12-FEB--2010 12:41:00	30	H2SO4/KMn	1	8	1	0.03333	
246434014	12-FEB--2010 12:41:00	30.01	H2SO4/KMn	1	8	1	0.03332	
246434015	12-FEB--2010 12:41:00	30	H2SO4/KMn	1	8	1	0.03333	

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202040496	PCB Laboratory Control	WEI00210-07	1	mL	Clean up Date: 02/12/2010
MS	1202040497	PCB Laboratory Control	WEI00210-07	1	mL	Clean up Initials: RWH
MSD	1202040498	PCB Laboratory Control	WEI00210-07	1	mL	Verified By: JAM
SURR	All	PEST LOW LEVEL SURROGATE 200 UG/L	UEI00127-15	1	mL	Final Solvent: Hexane
REGNT	All	1:1 sulfuric acid	1260695a	5	mL	Clean Up SOP: GL-OA-E-037
REGNT	All	Acetone	1264558	150	mL	
REGNT	All	Hexane	1264562-B2	150	mL	
REGNT	All	5% Potassium Permanganate	B1202457-F	5	mL	
SOURC	All	SODIUM SULFATE	1265308	30	g	

Prep Logbook Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 953770 Verified by: _____

Analyst: Andrew Schwenin

Method: SW846 3550B

Lab SOP: GL-OA-E-010 REV# 18

Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Clean Up	Prior to Clean up (mL)	Amount Cleaned (mL)	After Clean up (mL)	Prepped Aliquot (mL)	Prepped Factor (mL/g)	Comments:
1202044726 MB	16-FEB-2010 20:08:00	30	H2SO4/KM2	2	9	1	0.03333		
1202044727 LCS	16-FEB-2010 20:08:00	30	H2SO4/KM2	2	9	1	0.03333		
1202044728 LCS	16-FEB-2010 20:08:00	30	H2SO4/KM2	2	9	1	0.03333		
246434010 - 2	16-FEB-2010 20:08:00	30.08	H2SO4/KM2	2	9	1	0.03324		
246434012 - 2	16-FEB-2010 20:08:00	30.05	H2SO4/KM2	2	9	1	0.03328		
Type	Sample Id	Description	Serial Number	Spike Amt	Units				
LCS	1202044727	PCB Laboratory Control	WE100210-07	1	mL	Clean up Date: 2/16/10			
LCS	1202044728	PCB Laboratory Control	WE100210-07	1	mL	Clean up Initials: AJS			
SURR	All	PEST LOW LEVEL SURROGATE 200 UG/L	UE100203-15	1	mL	Verified By: AV			
RECONT	All	Acetone	100211-B1	150	mL	Final Solvent: Hexane			
RECONT	All	Hexane	100211-B2	150	mL	Clean Up SOP: GL-OA-E-037			
RECONT	All	1:1 sulfuric acid	1260695a	5	mL				
RECONT	All	5% Potassium Permanganate	B1202457-F	5	mL				
SOURC	All	SODIUM SULFATE	1269268	30	g				

Prep Logbook Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 954434
 Analyst: Robin Hunt
 Method: SW846 3550B

Verified by: _____

Lab SOP: GL-OA-E-010 REV# 18
 Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Clean Up	Prior to Clean up (mL)	Amount Cleaned (mL)	After Clean up (mL)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202045980 MB	18-FEB-2010 13:13:00	30	H2SO4/KMI	1	8	1	0.03333	
1202045981 LCS	18-FEB-2010 13:13:00	30	H2SO4/KMI	1	8	1	0.03333	
246434010 - 3	18-FEB-2010 13:13:00	30.07	H2SO4/KMI	1	8	1	0.03326	
1202045982 - 3 MS (246434010)	18-FEB-2010 13:13:00	30.03	H2SO4/KMI	1	8	1	0.0333	
1202045983 - 3 MSD (246434010)	18-FEB-2010 13:13:00	30.03	H2SO4/KMI	1	8	1	0.0333	
247033002	18-FEB-2010 13:13:00	30.06	H2SO4/KMI	1	8	1	0.03327	
Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:		
LCS	1202045981	PCB Laboratory Control	WE100210-07	1	mL	Clean up Date: 02/18/2010		
MS	1202045982	PCB Laboratory Control	WE100210-07	1	mL	Clean up Initials: RWH		
MSD	1202045983	PCB Laboratory Control	WE100210-07	1	mL	Verified By: JAM		
SURR	All	PEST LOW LEVEL SURROGATE 200 UG/L	UE100203-15	1	mL	Final Solvent: Hexane		
REGNT All		Acetone	100211-B1	150	mL	Clean Up SOP: GL-OA-E-037		
REGNT All		Hexane	100211-B2	150	mL			
REGNT All		1:1 sulfuric acid	1260695a	5	mL			
REGNT All		5% Potassium Permanganate	B1202457-F	5	mL			
SOURC All		SODIUM SULFATE	1269268	30	g			