

Wednesday, February 03, 2010

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.
2040 Savage Rd
Charleston, SC 29407

These Samples are on:
LANL Request Number: 10-1567
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/3/2010

TURNAROUND/REPORT DUE: 3/5/2010

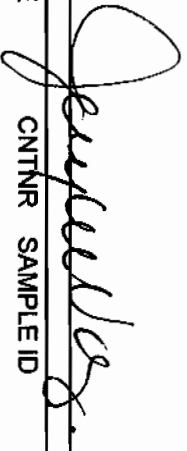
TURNAROUND REQ'D: 30 Days

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	RE15-10-8300	R	2/1/2010	
		1	RE15-10-8301	R	2/1/2010	
	SW-846-8260B	1	RE15-10-8300	R	2/1/2010	
		1	RE15-10-8301	R	2/1/2010	
		1	RE15-10-8304	R	2/1/2010	
		1	RE15-10-8305	R	2/1/2010	
		1	RE15-10-8306	R	2/1/2010	
		1	RE15-10-8307	R	2/1/2010	
		1	RE15-10-8308	R	2/1/2010	

Wednesday, February 03, 2010

Page 2 of 2
REQUEST NUMBER: 10-1567

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8260B	1	RE15-10-8309	R	2/1/2010	
		1	RE15-10-8324	R	2/1/2010	
		1	RE15-10-8332	S	2/1/2010	
		1	RE15-10-8300	R	2/1/2010	
		1	RE15-10-8301	R	2/1/2010	
	SW-846:8270C	1	RE15-10-8304	R	2/1/2010	
		1	RE15-10-8305	R	2/1/2010	
		1	RE15-10-8306	R	2/1/2010	
		1	RE15-10-8307	R	2/1/2010	
		1	RE15-10-8308	R	2/1/2010	
	SW-846:8321A_MOD	1	RE15-10-8309	R	2/1/2010	
		1	RE15-10-8324	R	2/1/2010	
		1	RE15-10-8300	R	2/1/2010	
		1	RE15-10-8301	R	2/1/2010	
		1	RE15-10-8304	R	2/1/2010	
	SW-846:8321A_MOD	1	RE15-10-8305	R	2/1/2010	
		1	RE15-10-8306	R	2/1/2010	
		1	RE15-10-8307	R	2/1/2010	
		1	RE15-10-8308	R	2/1/2010	
		1	RE15-10-8309	R	2/1/2010	
		1	RE15-10-8324	R	2/1/2010	

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Wednesday, February 03, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1567

LOS ALAMOS

REQUEST NUMBER: 10-1567

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/5/2010

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
RE15-10-8332	1	SEPTUM AMBER GLASS	8260B Trip Blank	Ice	S
RE15-10-8304	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8304	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8305	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8305	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8306	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8306	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8307	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8307	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8309	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8309	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8308	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8308	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8301	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8301	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8300	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8300	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8324	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8324	1	AMBER GLASS	8270C+NMED Exp	Ice	R

Relinquished By:**Date****Time****Received By:****Date****Time**

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:**Date****Time****Remarks:**

Printed Name

Signature

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2506

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

SAMPLE ID: RE15-10-8300

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	OBT3		SED
TIME COLLECTED (HH:MM)		1309		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-009(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610829	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.3		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	NO			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: ^{RS 02-01-10} dark brown moist sand numerous rocks and few roots
brown

SAMPLE COMMENTS:

NA

LOCATION DESC: 9b-Le drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 5 dpm
Beta/Gamma ≤ 1900 dpm

HE NEG

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

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TL McFarland

RELINQUISHED BY (Printed Name) Nicholas Gallegos (Signature)	Date/Time 2-1-10 4:14	RECEIVED BY (Printed Name) Sheri Sherwood (Signature)	Date/Time 2/1/10 1614
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2506

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

SAMPLE ID: RE15-10-8301

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	OBT3		OK
TIME COLLECTED (HH:MM)		1317		SUB-MEDIA:	TUFF 1		↓
PRS ID:	15-009(b)		OK	SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610829		↓	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		OK	EXCAVATED: YES/NO/NA	NO		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA	NO			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: pinkish gray tuff, roots

FR: RE15-10 - 8328

SAMPLE COMMENTS:

NA

LOCATION DESC: 9b-6 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 33 dpm
Beta/Gamma ≤ 2280 dpm

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

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

TLMcFarlane

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Nicholas Gallegos	2-1-10	(Printed Name) Sherrill Sherwood	2/1/10
(Signature) [Signature]	4:14	(Signature) [Signature]	1614
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2506

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

SAMPLE ID: RE15-10-8304

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	OBT3		SED
TIME COLLECTED (HH:MM)		1110		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-009(b)		OK	SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610831		↓	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		SED	EXCAVATED: YES/NO/NA	NO		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA	NO			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 grey, black and brown silty sand, some roots, organic matter, rocks

SAMPLE COMMENTS:

NA

LOCATION DESC: 9b-9 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 11 dpm
Beta/Gamma ≤ 2250 dpm

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

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) Nikola Gallegos	Date/Time 2-1-10	RECEIVED BY (Printed Name) Sherrill Sherwood	Date/Time 2/1/10
(Signature) <i>[Signature]</i>	415	(Signature) <i>[Signature]</i>	1615
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2506

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

SAMPLE ID: RE15-10-8305

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/10	2010	MEDIA:	OBT3	RS 02/01/10	ALTH SED
TIME COLLECTED (HH:MM)		1056	2/1/10	SUB-MEDIA:	TUFF 1	NA	OK
PRS ID:	15-009(b)	OK		SAMPLE TECH CODE:	HA	OK	
LOCATION ID:	15-610831	↓		FIELD QC TYPE:	NA	↓	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA	↓	
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV	↓	
BOTTOM DEPTH:	0	1.0		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	SED		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	NDXma1	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: black + brown organic rich clayey silt, with roots and bark, pin needles, moist,

SAMPLE COMMENTS:

NA

LOCATION DESC: 9b-9 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 22 dpm
Beta/Gamma \leq 9130 dpm

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

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TL McFarland

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Nicholas Gallegos	2-1-10	(Printed Name) Sherri Sherwood	2/1/10
(Signature) [Signature]	4:14	(Signature) [Signature]	1614
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2506

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

SAMPLE ID: RE15-10-8306

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	QBT3		SED
TIME COLLECTED (HH:MM)		1130		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-009(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610832	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	1.0		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	SED		EXCAVATED: YES/NO	NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO	NA			BOREHOLE DECLINATION:	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 clay, organic matter, roots, wood, rocks
moist

FD: RE15-10-8324

SAMPLE COMMENTS:

NA

LOCATION DESC: 9b-8 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 11 dpm
Beta/Gamma ≤ 2050 dpmHE NEG
PID $\frac{\text{Ambient Reading}}{0.0}$ ppm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarlane

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Nicholas Gallegos	2-1-10	(Printed Name) Sherri Sherwood	2/1/10
(Signature)	4/14	(Signature)	1614
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2506

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

SAMPLE ID: RE15-10-8307

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	QBT3		ALLH
TIME COLLECTED (HH:MM)		1141		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-009(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610832			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	S		EXCAVATED: YES/NO	NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO	NA			WATER FLOWING: 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 moist clay silt, some wood, gray tuff fragments, roots

SAMPLE COMMENTS:

NA

LOCATION DESC: 9b-8 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 11 dpm
Beta/Gamma \leq 1824 dpm

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

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) Nicholas Gallegos (Signature)	Date/Time 2-1-10 4:14	RECEIVED BY (Printed Name) Sheri McFarland (Signature)	Date/Time 2/1/10 1614
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2506

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

SAMPLE ID: RE15-10-8308

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	OBT3		SED
TIME COLLECTED (HH:MM)		1200		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-009(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610833	↓		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		
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: greyish brown rocky sand

SAMPLE COMMENTS:

NA

LOCATION DESC: 9b-7 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 11 dpm
Beta/Gamma ≤ 1245 dpm

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

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) Nicholas Gallegos	Date/Time 2-1-10	RECEIVED BY (Printed Name) Sherrif Newwood	Date/Time 2/1/10
(Signature) [Signature]	4:15	(Signature) [Signature]	1615
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2506

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

SAMPLE ID: RE15-10-8309

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	QBT3		OK
TIME COLLECTED(HH:MM)		1253		SUB-MEDIA:	TUFF 1		↓
PRS ID:	15-009(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610833	↓		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	OK		EXCAVATED: YES/NO/NA	NO		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA	NO			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: Light brown tuff, few roots

SAMPLE COMMENTS:

NA

LOCATION DESC: 9b-7 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 27 dpm
Beta/Gamma = 2650 dpm

PID Ambient 0.0
Reading 0.0 ppm

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT) T L McFarlane

RELINQUISHED BY (Printed Name) Nickolas Gallegos (Signature) [Signature]	Date/Time 2-1-10 4:15	RECEIVED BY (Printed Name) Sherrif Newwood (Signature) [Signature]	Date/Time 2/1/10 1615
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2506

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

SAMPLE ID: RE15-10-8324

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	QBT3		SED
TIME COLLECTED (HH:MM)		1130		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-009(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	UNK	15-610832		FIELD QC TYPE:	FD		
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	QC		✓
BOTTOM DEPTH:	0	1.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	SED		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	RS02-01-10 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 RE15-10-8306

brown silty clay, organic matter, roots, wood, rocks
mast

SAMPLE COMMENTS:

NA

LOCATION DESC: 9b-8 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 11 dpm
Beta/Gamma ≤ 2050 dpmHE NEG
PID Ambient 0.0
Reading 0.0 ppm

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R Saunders

REVIEWED BY (PRINT) TLMcFarlane

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Nicholas Gallegos	2-1-10	(Printed Name) Sherrif Sherwood	2/1/10
(Signature) [Signature]	11:15	(Signature) [Signature]	16:15
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2506

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

SAMPLE ID: RE15-10-8328

WORK ORDER:

AS PLANNED	AS COLLECTED	AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):	02/01/2010	MEDIA:	NA
TIME COLLECTED (HH:MM)	1330	SUB-MEDIA:	OTHER
PRS ID: 15-009(b)	OK	SAMPLE TECH CODE:	DC
LOCATION ID: UNK	15-610829	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	NA
COMPOSITE TYPE: NA	COMPOSITE TIME INTERVAL: NA	WATER FLOWING: YES/NO/NA	NO
BOREHOLE: YES/NO/NA	BOREHOLE DECLINATION: NA	BOREHOLE DIRECTION: NA	NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	METALS+U-GEL	1 LITER POLY	Nitric Acid	Y	
1	1	NO3NO2	250 ML POLY	Sulfuric Acid (Hydrogen Sulfate)	NO	
1	1	SW-846:6850	250 ML POLY	Ice	Y	
1	✓	TCN	500 ML POLY	Sodium Hydroxide	Y	

SAMPLE DESC: QC Sample of RE15-10-8301

SAMPLE COMMENTS:

R5-01-1051 Rinsate

LOCATION DESC: 9b-6 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

NA

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REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) <u>Nickolas Gallegos</u> (Signature) <u>[Signature]</u>	Date/Time <u>2-1-10</u> <u>04:15</u>	RECEIVED BY (Printed Name) <u>Sherris Newwood</u> (Signature) <u>[Signature]</u>	Date/Time <u>2/1/10</u> <u>1615</u>
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2506

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

SAMPLE ID: RE15-10-8332

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	NA		OK
TIME COLLECTED (HH:MM)		1050		SUB-MEDIA:	OTHER		
PRS ID:	15-009(b)	RS 02-01-10 15-610831		SAMPLE TECH CODE:	DC		
LOCATION ID:	UNK	15-610831		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
12	Normal	8260B Trip Blank	40 ML SEPTUM AMBER GLASS	Ice	Y	

SAMPLE DESC: QC Sample of RE15-10-8305

SAMPLE COMMENTS:

FTB

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

JLMcfarland

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Nicholas Gallegos	2-1-10	(Printed Name) Sheri Sherwood	2/1/10
(Signature) [Signature]	4:15	(Signature) [Signature]	1615
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):

RE 15-10-7332
7333
7334
7335
7336
7337
7338
7339
7342
8304
8305
8306
8307

RE 15-10-8308
8309
8300
8301
8324
7981
7982
7983
7984
7985

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):

RE 15-10-7344] rinsate
RE 15-10-8328

RE 15-10-8332 FTB

Reason:

.....
Print Last Name McFarland

Signature Tracy R.

Date 2/01/10

Rad Screening Data Release Form

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

RE 15-10-7332
7333
7334
7335
7336
7337
7338
7339
7342
8304
8305
8306
8307

RE 15-10-8308
8309
8300
8301
8324
7981
7982
7983
7984
7985

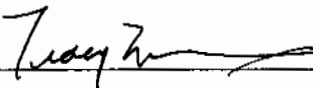
These samples will not be shipped until radiological screening data documentation arrives at the FSF. I understand that it is my responsibility to ensure this information arrives at the FSF in a timely manner. If holding times are missed because screening data does not arrive, I will pick up the samples.

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

RE 15-10-7344] rinsate
RE 15-10-8328

RE 15-10-8332 FTB

Reason:

.....
Print Last Name McFarland Signature  Date 2/01/10



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00041

Request or PO Number:

Client Sample ID: RE15-10-8300

ARS Sample ID: ARS2-10-00041-002

Sample Collection Date: 02/01/10 13:09

Date Received: 02/02/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/04/10 08:02

Analysis Description	Analysis Results	Analysis Error +/- 1 s	MDC	TRI	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	21.06	22.37	31.30	22.52		pCi/g	EPA 900.0M	2/3/2010	NP	N/A
GROSS BETA	53.88	16.14	16.40	17.44		pCi/g	EPA 900.0M	2/3/2010	NP	N/A
NA-22	0.00	0.00	0.08	0.00		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
K-40	27.28	7.73	1.28	7.78		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CO-60	0.00	8.36	0.08	8.36		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CS-134	0.17	0.10	0.06	0.10		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CS-137	0.09	0.11	0.05	0.11		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
EU-152	0.42	0.30	0.15	0.50		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
PB-212	1.12	0.38	0.10	0.38		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
RA-228	1.89	0.83	0.22	0.84		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
U-235	1.56	0.76	0.36	0.76		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
U-238	4.05	3.21	1.20	3.34		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
AM-241	0.00	0.03	0.03	0.03		pCi/g	EPA 901.1M	2/3/2010	NP	N/A

NOTES: % Moisture: 3.12

Matthew A. Edler
Quality Assurance Review

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505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00041

Request or PO Number:

Client Sample ID: RE15-10-8301

ARS Sample ID: ARS2-10-00041-003

Sample Collection Date: 02/01/10 13:17

Date Received: 02/02/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/04/10 08:02

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MnC	TpH	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	14.97	19.09	28.72	19.18		pCi/g	EPA 900.0M	2/3/2010	NP	N/A
GROSS BETA	41.88	16.08	19.14	16.86		pCi/g	EPA 900.0M	2/3/2010	NP	N/A
NA-22	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
K-40	29.90	8.84	1.52	8.89		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CO-60	0.08	0.12	0.10	0.12		nCi/g	EPA 901.1M	2/3/2010	NP	N/A
CS-134	0.00	0.00	0.07	0.00		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CS-137	0.00	0.03	0.06	0.03		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
EU-152	0.29	0.28	0.12	0.28		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
PB-212	1.22	0.44	0.12	0.44		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
RA-228	2.15	0.78	0.26	0.78		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
U-235	0.45	0.50	0.31	0.50		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
U-238	1.53	2.71	1.40	2.73		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
AM-241	0.00	0.05	0.07	0.05		pCi/g	EPA 901.1M	2/3/2010	NP	N/A

NOTES: % Moisture: 0.67

Matt J. Foley
Quality Assurance Review

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ARS Sample Delivery Group: ARS2-10-00041

Request or PQ Number:

Client Sample ID: RE15-10-8304

ARS Sample ID: ARS2-10-00041-004

Sample Collection Date: 02/01/10 11:10

Date Received: 02/02/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/04/10 08:02

Analysis Description	Analysis Result	Analysis Error +/- 2 s	MHC	TRM	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	153.86	34.19	37.10	57.37		pCi/g	EPA 900.0M	2/3/2010	NP	N/A
GROSS BETA	203.27	29.14	18.29	38.32		pCi/g	EPA 900.0M	2/3/2010	NP	N/A
NA-22	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
K-40	25.43	8.17	1.51	8.21		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CS-137	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CS-134	0.31	0.23	0.07	0.23		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CS-137	0.15	0.23	0.09	0.23		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
EU-152	0.47	0.36	0.12	0.36		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
PB-212	0.97	0.45	0.17	0.45		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
RA-226	0.38	0.63	0.31	0.63		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
U-235	4.33	1.54	0.60	1.55		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
U-238	37.65	8.59	2.69	12.15		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
AM-241	-0.01	52.01	0.12	52.01		pCi/g	EPA 901.1M	2/3/2010	NP	N/A

NOTES: % Moisture: 2.72

[Signature]
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ARS Sample Delivery Group: ARS2-10-00041

Request or PO Number:

Client Sample ID: RE15-10-8305

ARS Sample ID: ARS2-10-00041-005

Sample Collection Date: 02/01/10 10:36

Date Received: 02/02/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/04/10 08:03

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MNC	TBU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	167.65	58.47	37.46	61.97		pCi/g	EPA 900.0M	2/3/2010	NP	N/A
GROSS BETA	237.30	31.99	18.46	44.89		pCi/g	EPA 900.0M	2/3/2010	NP	N/A
NA-22	0.00	0.00	0.09	0.00		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
K-40	15.40	7.61	1.43	7.65		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CO-60	0.00	0.00	0.04	0.00		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CS-134	0.43	0.37	0.07	0.27		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CS-137	0.96	0.37	0.06	0.37		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
EU-152	0.00	49.32	0.11	49.32		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
PB-212	1.29	0.60	0.27	0.60		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
RA-228	-0.01	-0.14	0.27	-0.14		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
U-235	12.45	2.93	0.94	2.96		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
U-238	156.20	28.31	6.12	43.53		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
AM-241	1.30	1.01	0.46	1.01		pCi/g	EPA 901.1M	2/3/2010	NP	N/A

NOTES: % Moisture: 3.38

M. A. Felt
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ARS Sample Delivery Group: AR52-10-00041

Request or PO Number:

Client Sample ID: RE15-10-8306

ARS Sample ID: AR52-10-00041-006

Sample Collection Date: 02/01/10 11:30

Date Received: 02/02/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/04/10 08:02

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	YPO	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	21.06	22.37	31.30	22.52		pCi/g	EPA 900.0M	2/3/2010	NP	N/A
GROSS BETA	53.02	16.05	16.49	17.32		pCi/g	EPA 900.0M	2/3/2010	NP	N/A
NA-22	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
K-40	18.73	7.11	1.52	7.13		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CO-60	0.00	0.07	0.10	0.07		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CS-134	0.48	0.26	0.07	0.27		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CS-137	0.57	0.30	0.06	0.30		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
EU-152	0.70	0.44	0.12	0.43		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
PB-212	1.00	0.39	0.11	0.40		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
RA-226	1.26	0.92	0.27	0.93		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
U-235	1.20	0.69	0.25	0.69		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
U-238	3.40	3.04	1.23	3.28		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
AM-241	0.36	0.35	0.13	0.35		pCi/g	EPA 901.1M	2/3/2010	NP	N/A

NOTES: % Moisture: 2.34

[Signature]
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133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00041
 Client Sample ID: RE15-10-8307
 Sample Collection Date: 02/01/10 11:41
 Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00041-007

Date Received: 02/02/10 00:00

Report Date: 02/04/10 08:02

Analysis Description	Analysis Results	Analysis Error +/- 2s	MDC	T90	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Inventory
GROSS ALPHA	39.12	28.60	28.72	28.98		pCi/g	EPA 900.0M	2/3/2010	NP	N/A
GROSS BETA	34.87	19.80	19.14	16.37		pCi/g	EPA 900.0M	2/3/2010	NP	N/A
NA-22	0.00	0.00	0.14	0.00		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
K-40	22.81	9.55	2.23	9.57		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CO-60	0.00	14.59	0.15	14.59		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CS-134	0.47	0.32	0.11	0.32		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CS-137	0.10	0.16	0.09	0.16		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
EU-152	0.91	0.88	0.17	0.88		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
PB-212	1.53	0.66	0.23	0.66		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
RA-228	0.92	0.49	0.46	0.50		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
U-235	0.22	0.58	0.52	0.58		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
U-238	3.99	4.93	2.01	5.02		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
AM-241	0.24	0.29	0.12	0.29		pCi/g	EPA 901.1M	2/3/2010	NP	N/A

NOTES: % Moisture: 1.61

[Signature]
 Quality Assurance Review

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LELAP Certificate # 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: AR52-10-00041

Request or PO Number:

Client Sample ID: RE15-10-8308

ARS Sample ID: AR52-10-00041-008

Sample Collection Date: 02/01/10 12:00

Date Received: 02/02/10 00:00

Sample Matrix: Soil/soils

Report Date: 02/04/10 08:02

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	16.16	22.41	37.10	22.50		pCi/g	EPA 900.0M	2/3/2010	NP	N/A
GROSS BETA	52.36	16.51	18.28	17.71		pCi/g	EPA 900.0M	2/3/2010	NP	N/A
NA-22	0.00	0.00	0.07	0.00		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
K-40	24.66	6.99	1.15	7.03		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CO-60	0.00	7.56	0.08	7.50		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CS-134	0.14	0.12	0.06	0.12		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CS-137	0.28	0.18	0.05	0.18		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
EU-152	0.24	0.26	0.10	0.27		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
PB-212	1.49	0.42	0.11	0.42		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
RA-228	1.57	0.72	0.20	0.72		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
U-235	0.27	0.37	0.20	0.37		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
U-238	4.65	2.70	1.04	2.90		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
AM-241	-0.01	28.61	0.06	28.61		pCi/g	EPA 901.1M	2/3/2010	NP	N/A

NOTES: % Moisture: 2.70

Matthew J. Felder
Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00041

Request or PO Number:

Client Sample ID: RE15-10-8309

ARS Sample ID: ARS2-10-00041-009

Sample Collection Date: 02/01/10 12:53

Date Received: 02/02/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/04/10 08:02

Analysis Description	Analysis Results	Analysis Error +/- 2 s	mM	YBt	Quat	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	34.44	29.40	37.46	29.70		pCi/g	EPA 900.0M	2/3/2010	NP	N/A
GROSS BETA	43.15	15.86	18.46	16.72		pCi/g	EPA 900.0M	2/3/2010	NP	N/A
NA-22	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
K-40	27.05	9.60	1.94	9.63		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CS-60	0.00	12.70	0.14	12.70		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CS-134	0.00	0.00	0.09	0.00		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CS-137	-0.01	16.62	0.08	16.62		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
EU-152	0.00	13.21	0.15	13.21		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
PB-212	1.56	0.55	0.14	0.56		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
RA-228	1.84	0.69	0.34	0.80		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
U-235	1.11	0.89	0.27	0.90		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
U-238	4.12	3.42	1.38	3.54		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
AM-241	0.93	0.13	0.07	0.13		pCi/g	EPA 901.1M	2/3/2010	NP	N/A

NOTES: % Moisture: 0.77

Martin J. Edgar
Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate # 30658

NELAP Certificate # E87558

DATA VALIDATION COVER SHEET

5114-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1567 VALIDATION DATE: 04/01/10 LAB CODE: GEL
 CONTRACT LABORATORY NAME: GEL Laboratories LLC
 VALIDATOR: Lisa Burgesser 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): GC/MS 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. The ICV %Ds were >20% for acetone, 2-butanone and 2-hexanone. The acetone sample results for RE15-10-8300 and -8305 were detects and, thus, were qualified J,V7c. The remaining sample results for acetone and all the sample results for 2-butanone and 2-hexanone were NDs and, thus, were qualified UJ,V7c. For the CCV associated with all samples except -8304 and -8324, the %Ds were >20% for dichlorodifluoromethane and 2-hexanone and the CCV, associated with samples -8304 and -8324, %Ds were >20% for dichlorodifluoromethane and trichlorofluoromethane. All associated sample results were NDs and, thus, were qualified UJ,V7c.
2. The toluene-d8 and bromofluorobenzene surrogates %Rs were > the laboratory UAL for sample -8305. The associated acetone, toluene and 4-isopropyltoluene sample results were detects and, thus, were qualified J+,V3b. The remaining associated sample results were NDs and, thus, were not qualified.
3. It should be noted that the 2-hexanone result exceeded the calibration range in the LCS. No sample data were qualified as a result.
4. It should be noted that trichlorotrifluoroethane was not represented in the MS/MSD analyses and that the 2-hexanone result exceeded the calibration range in the MS/MSD. Since MS/MSD analyses are not a client requirement for this method, no sample data were qualified as a result.

Reviewed by: Mary DonovanLevel: IDate: 04/01/10VALIDATOR'S SIGNATURE: *Lisa Burgesser*DATE: 04/01/10

DATA VALIDATION COVER SHEET	
5114-1 Data Validation Cover Sheet	Records Use only  Los Alamos NATIONAL LABORATORY EST. 1945
Form 5114-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

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				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, 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

5114-2

Volatile Organic Compound (VOC) 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"/>	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 type="checkbox"/>	<input checked="" 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	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		Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
			method-specific windows.		
<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 checked="" type="checkbox"/>	<input 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

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				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" 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
<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: 10-1567
 Lab Sample ID: 246330009

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 30.6
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE15-10-8300
 Batch ID: 952150
 Run Date: 02/12/2010 06:57
 Prep Date: 02/11/2010 14:30
 Data File: 7y439.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	
75-71-8	Dichlorodifluoromethane	U	1.44	ug/kg	0.490	1.44	UJ,V7c
74-87-3	Chloromethane	U	1.44	ug/kg	0.433	1.44	
75-01-4	Vinyl chloride	U	1.44	ug/kg	0.433	1.44	
74-83-9	Bromomethane	U	1.44	ug/kg	0.433	1.44	
75-00-3	Chloroethane	U	1.44	ug/kg	0.433	1.44	
75-69-4	Trichlorofluoromethane	U	1.44	ug/kg	0.433	1.44	
67-64-1	Acetone		7.98	ug/kg	2.39	7.21	J,V7c
75-35-4	1,1-Dichloroethylene	U	1.44	ug/kg	0.433	1.44	
74-88-4	Iodomethane	U	7.21	ug/kg	2.31	7.21	
75-09-2	Methylene chloride	U	7.21	ug/kg	2.88	7.21	
75-15-0	Carbon disulfide	U	7.21	ug/kg	1.80	7.21	
156-60-5	trans-1,2-Dichloroethylene	U	1.44	ug/kg	0.433	1.44	
75-34-3	1,1-Dichloroethane	U	1.44	ug/kg	0.433	1.44	
78-93-3	2-Butanone	U	7.21	ug/kg	2.16	7.21	UJ,V7c
156-59-2	cis-1,2-Dichloroethylene	U	1.44	ug/kg	0.433	1.44	
594-20-7	2,2-Dichloropropane	U	1.44	ug/kg	0.433	1.44	
67-66-3	Chloroform	U	1.44	ug/kg	0.433	1.44	
74-97-5	Bromochloromethane	U	1.44	ug/kg	0.476	1.44	
71-55-6	1,1,1-Trichloroethane	U	1.44	ug/kg	0.433	1.44	
563-58-6	1,1-Dichloropropene	U	1.44	ug/kg	0.433	1.44	
56-23-5	Carbon tetrachloride	U	1.44	ug/kg	0.433	1.44	
107-06-2	1,2-Dichloroethane	U	1.44	ug/kg	0.433	1.44	
71-43-2	Benzene	U	1.44	ug/kg	0.433	1.44	
79-01-6	Trichloroethylene	U	1.44	ug/kg	0.476	1.44	
78-87-5	1,2-Dichloropropane	U	1.44	ug/kg	0.433	1.44	
75-27-4	Bromodichloromethane	U	1.44	ug/kg	0.433	1.44	
74-95-3	Dibromomethane	U	1.44	ug/kg	0.433	1.44	
108-10-1	4-Methyl-2-pentanone	U	7.21	ug/kg	1.80	7.21	
10061-01-5	cis-1,3-Dichloropropylene	U	1.44	ug/kg	0.433	1.44	
108-88-3	Toluene	U	1.44	ug/kg	0.433	1.44	
10061-02-6	trans-1,3-Dichloropropylene	U	1.44	ug/kg	0.433	1.44	
79-00-5	1,1,2-Trichloroethane	U	1.44	ug/kg	0.433	1.44	
591-78-6	2-Hexanone	U	7.21	ug/kg	2.16	7.21	UJ,V7c
142-28-9	1,3-Dichloropropane	U	1.44	ug/kg	0.433	1.44	
127-18-4	Tetrachloroethylene	U	1.44	ug/kg	0.433	1.44	
124-48-1	Dibromochloromethane	U	1.44	ug/kg	0.433	1.44	
106-93-4	1,2-Dibromoethane	U	1.44	ug/kg	0.433	1.44	
108-90-7	Chlorobenzene	U	1.44	ug/kg	0.433	1.44	

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330009	Date Received: 02/05/2010 09:00	%Moisture: 30.6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8300	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952150	Inst: VOA7.I	Dilution: 1
Run Date: 02/12/2010 06:57	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/11/2010 14:30	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7y439.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.44	ug/kg	0.433	1.44
179601-23-1	m,p-Xylenes	U	2.88	ug/kg	0.433	2.88
95-47-6	o-Xylene	U	1.44	ug/kg	0.433	1.44
100-42-5	Styrene	U	1.44	ug/kg	0.433	1.44
75-25-2	Bromoform	U	1.44	ug/kg	0.433	1.44
79-34-5	1,1,2,2-Tetrachloroethane	U	1.44	ug/kg	0.433	1.44
96-18-4	1,2,3-Trichloropropane	U	1.44	ug/kg	0.433	1.44
108-86-1	Bromobenzene	U	1.44	ug/kg	0.433	1.44
103-65-1	n-Propylbenzene	U	1.44	ug/kg	0.433	1.44
95-49-8	2-Chlorotoluene	U	1.44	ug/kg	0.433	1.44
98-82-8	Isopropylbenzene	U	1.44	ug/kg	0.433	1.44
108-67-8	1,3,5-Trimethylbenzene	U	1.44	ug/kg	0.433	1.44
106-43-4	4-Chlorotoluene	U	1.44	ug/kg	0.433	1.44
98-06-6	tert-Butylbenzene	U	1.44	ug/kg	0.433	1.44
95-63-6	1,2,4-Trimethylbenzene	U	1.44	ug/kg	0.433	1.44
135-98-8	sec-Butylbenzene	U	1.44	ug/kg	0.433	1.44
99-87-6	4-Isopropyltoluene	U	16.7	ug/kg	0.433	1.44
541-73-1	1,3-Dichlorobenzene	U	1.44	ug/kg	0.433	1.44
106-46-7	1,4-Dichlorobenzene	U	1.44	ug/kg	0.433	1.44
104-51-8	n-Butylbenzene	U	1.44	ug/kg	0.433	1.44
96-12-8	1,2-Dibromo-3-chloropropane	U	1.44	ug/kg	0.433	1.44
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	7.21	ug/kg	2.31	7.21
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.44	ug/kg	0.433	1.44
95-50-1	1,2-Dichlorobenzene	U	1.44	ug/kg	0.433	1.44

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Alcohol	9.41	10.8	ug/kg		J
	Unknown Hydrocarbon	18.79	15.6	ug/kg		J
	Unknown Hydrocarbon	19.65	12.1	ug/kg		J
	Unknown Hydrocarbon	19.96	55	ug/kg		J
	Unknown Hydrocarbon	21.05	30.7	ug/kg		J
	Unknown Hydrocarbon	23.22	36	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330008	Date Received: 02/05/2010 09:00	%Moisture: 6
Client ID: RE15-10-8301	Client: LANL010	Project: LANL01004
Batch ID: 952150	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/12/2010 06:22	Inst: VOA7.I	Dilution: 1
Prep Date: 02/11/2010 14:28	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7y438.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	
75-71-8	Dichlorodifluoromethane	U	1.06	ug/kg	0.362	1.06	UJ,V7c
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	UJ,V7c
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	UJ,V7c
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	1.60	5.32	UJ,V7c
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: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330008	Date Received: 02/05/2010 09:00	%Moisture: 6
Client ID: RE15-10-8301	Client: LANL010	Project: LANL01004
Batch ID: 952150	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/12/2010 06:22	Inst: VOA7.I	Dilution: 1
Prep Date: 02/11/2010 14:28	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7y438.d	Allquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

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 Hydrocarbon	19.69	8.45	ug/kg		J
	Unknown Siloxane	21.55	8.63	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
Lab Sample ID: 246330002

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 20.3
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	
75-71-8	Dichlorodifluoromethane	U	1.26	ug/kg	0.427	1.26	UJ,V7c
74-87-3	Chloromethane	U	1.26	ug/kg	0.377	1.26	
75-01-4	Vinyl chloride	U	1.26	ug/kg	0.377	1.26	
74-83-9	Bromomethane	U	1.26	ug/kg	0.377	1.26	
75-00-3	Chloroethane	U	1.26	ug/kg	0.377	1.26	
75-69-4	Trichlorofluoromethane	U	1.26	ug/kg	0.377	1.26	UJ,V7c
67-64-1	Acetone	U	6.28	ug/kg	2.08	6.28	UJ,V7c
75-35-4	1,1-Dichloroethylene	U	1.26	ug/kg	0.377	1.26	
74-88-4	Iodomethane	U	6.28	ug/kg	2.01	6.28	
75-09-2	Methylene chloride	U	6.28	ug/kg	2.51	6.28	
75-15-0	Carbon disulfide	U	6.28	ug/kg	1.57	6.28	
156-60-5	trans-1,2-Dichloroethylene	U	1.26	ug/kg	0.377	1.26	
75-34-3	1,1-Dichloroethane	U	1.26	ug/kg	0.377	1.26	
78-93-3	2-Butanone	U	6.28	ug/kg	1.88	6.28	UJ,V7c
156-59-2	cis-1,2-Dichloroethylene	U	1.26	ug/kg	0.377	1.26	
594-20-7	2,2-Dichloropropane	U	1.26	ug/kg	0.377	1.26	
67-66-3	Chloroform	U	1.26	ug/kg	0.377	1.26	
74-97-5	Bromochloromethane	U	1.26	ug/kg	0.414	1.26	
71-55-6	1,1,1-Trichloroethane	U	1.26	ug/kg	0.377	1.26	
563-58-6	1,1-Dichloropropene	U	1.26	ug/kg	0.377	1.26	
56-23-5	Carbon tetrachloride	U	1.26	ug/kg	0.377	1.26	
107-06-2	1,2-Dichloroethane	U	1.26	ug/kg	0.377	1.26	
71-43-2	Benzene	U	1.26	ug/kg	0.377	1.26	
79-01-6	Trichloroethylene	U	1.26	ug/kg	0.414	1.26	
78-87-5	1,2-Dichloropropane	U	1.26	ug/kg	0.377	1.26	
75-27-4	Bromodichloromethane	U	1.26	ug/kg	0.377	1.26	
74-95-3	Dibromomethane	U	1.26	ug/kg	0.377	1.26	
108-10-1	4-Methyl-2-pentanone	U	6.28	ug/kg	1.57	6.28	
10061-01-5	cis-1,3-Dichloropropylene	U	1.26	ug/kg	0.377	1.26	
108-88-3	Toluene	U	1.26	ug/kg	0.377	1.26	
10061-02-6	trans-1,3-Dichloropropylene	U	1.26	ug/kg	0.377	1.26	
79-00-5	1,1,2-Trichloroethane	U	1.26	ug/kg	0.377	1.26	
591-78-6	2-Hexanone	U	6.28	ug/kg	1.88	6.28	UJ,V7c
142-28-9	1,3-Dichloropropane	U	1.26	ug/kg	0.377	1.26	
127-18-4	Tetrachloroethylene	U	1.26	ug/kg	0.377	1.26	
124-48-1	Dibromochloromethane	U	1.26	ug/kg	0.377	1.26	
106-93-4	1,2-Dibromoethane	U	1.26	ug/kg	0.377	1.26	
108-90-7	Chlorobenzene	U	1.26	ug/kg	0.377	1.26	

Volatile
Certificate of Analysis
Sample Summary

Page 2 of 2

SDG Number: 10-1567

Lab Sample ID: 246330002

Date Collected: 02/01/2010 12:00

Date Received: 02/05/2010 09:00

Matrix: R

%Moisture: 20.3

Client: LANL010

Method: SW846 8260B

Project: LANL01004

SOP Ref: GL-OA-E-038

Client ID: RE15-10-8304

Batch ID: 952150

Inst: VOA7.1

Dilution: 1

Run Date: 02/12/2010 17:45

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 02/12/2010 15:12

Allquot: 5 g

Final Volume: 5 mL

Data File: 7y511.d

Column: DB-624

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.26	ug/kg	0.377	1.26
179601-23-1	m,p-Xylenes	U	2.51	ug/kg	0.377	2.51
95-47-6	o-Xylene	U	1.26	ug/kg	0.377	1.26
100-42-5	Styrene	U	1.26	ug/kg	0.377	1.26
75-25-2	Bromoform	U	1.26	ug/kg	0.377	1.26
79-34-5	1,1,2,2-Tetrachloroethane	U	1.26	ug/kg	0.377	1.26
96-18-4	1,2,3-Trichloropropane	U	1.26	ug/kg	0.377	1.26
108-86-1	Bromobenzene	U	1.26	ug/kg	0.377	1.26
103-65-1	n-Propylbenzene	U	1.26	ug/kg	0.377	1.26
95-49-8	2-Chlorotoluene	U	1.26	ug/kg	0.377	1.26
98-82-8	Isopropylbenzene	U	1.26	ug/kg	0.377	1.26
108-67-8	1,3,5-Trimethylbenzene	U	1.26	ug/kg	0.377	1.26
106-43-4	4-Chlorotoluene	U	1.26	ug/kg	0.377	1.26
98-06-6	tert-Butylbenzene	U	1.26	ug/kg	0.377	1.26
95-63-6	1,2,4-Trimethylbenzene	U	1.26	ug/kg	0.377	1.26
135-98-8	sec-Butylbenzene	U	1.26	ug/kg	0.377	1.26
99-87-6	4-Isopropyltoluene	U	1.26	ug/kg	0.377	1.26
541-73-1	1,3-Dichlorobenzene	U	1.26	ug/kg	0.377	1.26
106-46-7	1,4-Dichlorobenzene	U	1.26	ug/kg	0.377	1.26
104-51-8	n-Butylbenzene	U	1.26	ug/kg	0.377	1.26
96-12-8	1,2-Dibromo-3-chloropropane	U	1.26	ug/kg	0.377	1.26
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.28	ug/kg	2.01	6.28
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.26	ug/kg	0.377	1.26
95-50-1	1,2-Dichlorobenzene	U	1.26	ug/kg	0.377	1.26

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	21.55	12.7	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 246330003

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AX01
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 38.4
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	
75-71-8	Dichlorodifluoromethane	U	1.62	ug/kg	0.552	1.62	UJ,V7c
74-87-3	Chloromethane	U	1.62	ug/kg	0.487	1.62	
75-01-4	Vinyl chloride	U	1.62	ug/kg	0.487	1.62	
74-83-9	Bromomethane	U	1.62	ug/kg	0.487	1.62	
75-00-3	Chloroethane	U	1.62	ug/kg	0.487	1.62	
75-69-4	Trichlorofluoromethane	U	1.62	ug/kg	0.487	1.62	
67-64-1	Acetone		14.1	ug/kg	2.69	8.11	J,V7c
75-35-4	1,1-Dichloroethylene	U	1.62	ug/kg	0.487	1.62	
74-88-4	Iodomethane	U	8.11	ug/kg	2.60	8.11	
75-09-2	Methylene chloride	U	8.11	ug/kg	3.25	8.11	
75-15-0	Carbon disulfide	U	8.11	ug/kg	2.03	8.11	
156-60-5	trans-1,2-Dichloroethylene	U	1.62	ug/kg	0.487	1.62	
75-34-3	1,1-Dichloroethane	U	1.62	ug/kg	0.487	1.62	
78-93-3	2-Butanone	U	8.11	ug/kg	2.43	8.11	UJ,V7c
156-59-2	cis-1,2-Dichloroethylene	U	1.62	ug/kg	0.487	1.62	
594-20-7	2,2-Dichloropropane	U	1.62	ug/kg	0.487	1.62	
67-66-3	Chloroform	U	1.62	ug/kg	0.487	1.62	
74-97-5	Bromochloromethane	U	1.62	ug/kg	0.535	1.62	
71-55-6	1,1,1-Trichloroethane	U	1.62	ug/kg	0.487	1.62	
563-58-6	1,1-Dichloropropene	U	1.62	ug/kg	0.487	1.62	
56-23-5	Carbon tetrachloride	U	1.62	ug/kg	0.487	1.62	
107-06-2	1,2-Dichloroethane	U	1.62	ug/kg	0.487	1.62	
71-43-2	Benzene	U	1.62	ug/kg	0.487	1.62	
79-01-6	Trichloroethylene	U	1.62	ug/kg	0.535	1.62	
78-87-5	1,2-Dichloropropane	U	1.62	ug/kg	0.487	1.62	
75-27-4	Bromodichloromethane	U	1.62	ug/kg	0.487	1.62	
74-95-3	Dibromomethane	U	1.62	ug/kg	0.487	1.62	
108-10-1	4-Methyl-2-pentanone	U	8.11	ug/kg	2.03	8.11	
10061-01-5	cis-1,3-Dichloropropylene	U	1.62	ug/kg	0.487	1.62	
108-88-3	Toluene	J	1.12	ug/kg	0.487	1.62	J+,V3b
10061-02-6	trans-1,3-Dichloropropylene	U	1.62	ug/kg	0.487	1.62	
79-00-5	1,1,2-Trichloroethane	U	1.62	ug/kg	0.487	1.62	
591-78-6	2-Hexanone	U	8.11	ug/kg	2.43	8.11	UJ,V7c
142-28-9	1,3-Dichloropropane	U	1.62	ug/kg	0.487	1.62	
127-18-4	Tetrachloroethylene	U	1.62	ug/kg	0.487	1.62	
124-48-1	Dibromochloromethane	U	1.62	ug/kg	0.487	1.62	
106-93-4	1,2-Dibromoethane	U	1.62	ug/kg	0.487	1.62	
108-90-7	Chlorobenzene	U	1.62	ug/kg	0.487	1.62	

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330003	Date Received: 02/05/2010 09:00	%Moisture: 38.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8305	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952150	Inst: VOA7.I	Dilution: 1
Run Date: 02/12/2010 03:28	Analyst: AX01	Purge Vol: 5 mL
Prep Date: 02/11/2010 14:18	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7y433.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.62	ug/kg	0.487	1.62
179601-23-1	m,p-Xylenes	U	3.25	ug/kg	0.487	3.25
95-47-6	o-Xylene	U	1.62	ug/kg	0.487	1.62
100-42-5	Styrene	U	1.62	ug/kg	0.487	1.62
75-25-2	Bromoform	U	1.62	ug/kg	0.487	1.62
79-34-5	1,1,2,2-Tetrachloroethane	U	1.62	ug/kg	0.487	1.62
96-18-4	1,2,3-Trichloropropane	U	1.62	ug/kg	0.487	1.62
108-86-1	Bromobenzene	U	1.62	ug/kg	0.487	1.62
103-65-1	n-Propylbenzene	U	1.62	ug/kg	0.487	1.62
95-49-8	2-Chlorotoluene	U	1.62	ug/kg	0.487	1.62
98-82-8	Isopropylbenzene	U	1.62	ug/kg	0.487	1.62
108-67-8	1,3,5-Trimethylbenzene	U	1.62	ug/kg	0.487	1.62
106-43-4	4-Chlorotoluene	U	1.62	ug/kg	0.487	1.62
98-06-6	tert-Butylbenzene	U	1.62	ug/kg	0.487	1.62
95-63-6	1,2,4-Trimethylbenzene	U	1.62	ug/kg	0.487	1.62
135-98-8	sec-Butylbenzene	U	1.62	ug/kg	0.487	1.62
99-87-6	4-Isopropyltoluene		8.55	ug/kg	0.487	1.62 J+,V3b
541-73-1	1,3-Dichlorobenzene	U	1.62	ug/kg	0.487	1.62
106-46-7	1,4-Dichlorobenzene	U	1.62	ug/kg	0.487	1.62
104-51-8	n-Butylbenzene	U	1.62	ug/kg	0.487	1.62
96-12-8	1,2-Dibromo-3-chloropropane	U	1.62	ug/kg	0.487	1.62
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	8.11	ug/kg	2.60	8.11
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.62	ug/kg	0.487	1.62
95-50-1	1,2-Dichlorobenzene	U	1.62	ug/kg	0.487	1.62

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Hydrocarbon	19.65	44.1	ug/kg		J
	Unknown Hydrocarbon	19.97	19	ug/kg		J
	Unknown Alkene	20.24	11.2	ug/kg		J
	Unknown Hydrocarbon	20.33	19.2	ug/kg		J
	Unknown Hydrocarbon	20.62	22.6	ug/kg		J
	Unknown Siloxane	21.55	10.9	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330004	Date Received: 02/05/2010 09:00	%Moisture: 21.2
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8306	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952150	Inst: VOA7.I	Dilution: 1
Run Date: 02/12/2010 04:03	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/11/2010 14:20	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7y434.d	Column: DB-624	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	
75-71-8	Dichlorodifluoromethane	U	1.27	ug/kg	0.432	1.27	UJ,V7c
74-87-3	Chloromethane	U	1.27	ug/kg	0.381	1.27	
75-01-4	Vinyl chloride	U	1.27	ug/kg	0.381	1.27	
74-83-9	Bromomethane	U	1.27	ug/kg	0.381	1.27	
75-00-3	Chloroethane	U	1.27	ug/kg	0.381	1.27	
75-69-4	Trichlorofluoromethane	U	1.27	ug/kg	0.381	1.27	
67-64-1	Acetone	U	6.35	ug/kg	2.11	6.35	UJ,V7c
75-35-4	1,1-Dichloroethylene	U	1.27	ug/kg	0.381	1.27	
74-88-4	Iodomethane	U	6.35	ug/kg	2.03	6.35	
75-09-2	Methylene chloride	U	6.35	ug/kg	2.54	6.35	
75-15-0	Carbon disulfide	U	6.35	ug/kg	1.59	6.35	
156-60-5	trans-1,2-Dichloroethylene	U	1.27	ug/kg	0.381	1.27	
75-34-3	1,1-Dichloroethane	U	1.27	ug/kg	0.381	1.27	
78-93-3	2-Butanone	U	6.35	ug/kg	1.90	6.35	UJ,V7c
156-59-2	cis-1,2-Dichloroethylene	U	1.27	ug/kg	0.381	1.27	
594-20-7	2,2-Dichloropropane	U	1.27	ug/kg	0.381	1.27	
67-66-3	Chloroform	U	1.27	ug/kg	0.381	1.27	
74-97-5	Bromochloromethane	U	1.27	ug/kg	0.419	1.27	
71-55-6	1,1,1-Trichloroethane	U	1.27	ug/kg	0.381	1.27	
563-58-6	1,1-Dichloropropene	U	1.27	ug/kg	0.381	1.27	
56-23-5	Carbon tetrachloride	U	1.27	ug/kg	0.381	1.27	
107-06-2	1,2-Dichloroethane	U	1.27	ug/kg	0.381	1.27	
71-43-2	Benzene	U	1.27	ug/kg	0.381	1.27	
79-01-6	Trichloroethylene	U	1.27	ug/kg	0.419	1.27	
78-87-5	1,2-Dichloropropane	U	1.27	ug/kg	0.381	1.27	
75-27-4	Bromodichloromethane	U	1.27	ug/kg	0.381	1.27	
74-95-3	Dibromomethane	U	1.27	ug/kg	0.381	1.27	
108-10-1	4-Methyl-2-pentanone	U	6.35	ug/kg	1.59	6.35	
10061-01-5	cis-1,3-Dichloropropylene	U	1.27	ug/kg	0.381	1.27	
108-88-3	Toluene	U	1.27	ug/kg	0.381	1.27	
10061-02-6	trans-1,3-Dichloropropylene	U	1.27	ug/kg	0.381	1.27	
79-00-5	1,1,2-Trichloroethane	U	1.27	ug/kg	0.381	1.27	
591-78-6	2-Hexanone	U	6.35	ug/kg	1.90	6.35	UJ,V7c
142-28-9	1,3-Dichloropropane	U	1.27	ug/kg	0.381	1.27	
127-18-4	Tetrachloroethylene	U	1.27	ug/kg	0.381	1.27	
124-48-1	Dibromochloromethane	U	1.27	ug/kg	0.381	1.27	
106-93-4	1,2-Dibromoethane	U	1.27	ug/kg	0.381	1.27	
108-90-7	Chlorobenzene	U	1.27	ug/kg	0.381	1.27	

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330004	Date Received: 02/05/2010 09:00	%Moisture: 21.2
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8306	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952150	Inst: VOA7.I	Dilution: 1
Run Date: 02/12/2010 04:03	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/11/2010 14:20	Allquot: 5 g	Final Volume: 5 mL
Data File: 7y434.d	Column: DB-624	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.27	ug/kg	0.381	1.27
179601-23-1	m,p-Xylenes	U	2.54	ug/kg	0.381	2.54
95-47-6	o-Xylene	U	1.27	ug/kg	0.381	1.27
100-42-5	Styrene	U	1.27	ug/kg	0.381	1.27
75-25-2	Bromoform	U	1.27	ug/kg	0.381	1.27
79-34-5	1,1,2,2-Tetrachloroethane	U	1.27	ug/kg	0.381	1.27
96-18-4	1,2,3-Trichloropropane	U	1.27	ug/kg	0.381	1.27
108-86-1	Bromobenzene	U	1.27	ug/kg	0.381	1.27
103-65-1	n-Propylbenzene	U	1.27	ug/kg	0.381	1.27
95-49-8	2-Chlorotoluene	U	1.27	ug/kg	0.381	1.27
98-82-8	Isopropylbenzene	U	1.27	ug/kg	0.381	1.27
108-67-8	1,3,5-Trimethylbenzene	U	1.27	ug/kg	0.381	1.27
106-43-4	4-Chlorotoluene	U	1.27	ug/kg	0.381	1.27
98-06-6	tert-Butylbenzene	U	1.27	ug/kg	0.381	1.27
95-63-6	1,2,4-Trimethylbenzene	U	1.27	ug/kg	0.381	1.27
135-98-8	sec-Butylbenzene	U	1.27	ug/kg	0.381	1.27
99-87-6	4-Isopropyltoluene	U	1.27	ug/kg	0.381	1.27
541-73-1	1,3-Dichlorobenzene	U	1.27	ug/kg	0.381	1.27
106-46-7	1,4-Dichlorobenzene	U	1.27	ug/kg	0.381	1.27
104-51-8	n-Butylbenzene	U	1.27	ug/kg	0.381	1.27
96-12-8	1,2-Dibromo-3-chloropropane	U	1.27	ug/kg	0.381	1.27
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.35	ug/kg	2.03	6.35
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.27	ug/kg	0.381	1.27
95-50-1	1,2-Dichlorobenzene	U	1.27	ug/kg	0.381	1.27

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
No Tentatively Identified Compounds Found				ug/kg		

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567

Lab Sample ID: 246330005

Date Collected: 02/01/2010 12:00

Date Received: 02/05/2010 09:00

Matrix: R

%Moisture: 14.4

Client: LANL010

Project: LANL01004

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Inst: VOA7.I

Dilution: 1

Client ID: RE15-10-8307

Batch ID: 952150

Run Date: 02/12/2010 04:37

Analyst: AX01

Purge Vol: 5 mL

Prep Date: 02/11/2010 14:22

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7y435.d

Column: DB-624

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	
75-71-8	Dichlorodifluoromethane	U	1.17	ug/kg	0.397	1.17	UJ,V7c
74-87-3	Chloromethane	U	1.17	ug/kg	0.351	1.17	
75-01-4	Vinyl chloride	U	1.17	ug/kg	0.351	1.17	
74-83-9	Bromomethane	U	1.17	ug/kg	0.351	1.17	
75-00-3	Chloroethane	U	1.17	ug/kg	0.351	1.17	
75-69-4	Trichlorofluoromethane	U	1.17	ug/kg	0.351	1.17	
67-64-1	Acetone	U	5.84	ug/kg	1.94	5.84	UJ,V7c
75-35-4	1,1-Dichloroethylene	U	1.17	ug/kg	0.351	1.17	
74-88-4	Iodomethane	U	5.84	ug/kg	1.87	5.84	
75-09-2	Methylene chloride	U	5.84	ug/kg	2.34	5.84	
75-15-0	Carbon disulfide	U	5.84	ug/kg	1.46	5.84	
156-60-5	trans-1,2-Dichloroethylene	U	1.17	ug/kg	0.351	1.17	
75-34-3	1,1-Dichloroethane	U	1.17	ug/kg	0.351	1.17	
78-93-3	2-Butanone	U	5.84	ug/kg	1.75	5.84	UJ,V7c
156-59-2	cis-1,2-Dichloroethylene	U	1.17	ug/kg	0.351	1.17	
594-20-7	2,2-Dichloropropane	U	1.17	ug/kg	0.351	1.17	
67-66-3	Chloroform	U	1.17	ug/kg	0.351	1.17	
74-97-5	Bromochloromethane	U	1.17	ug/kg	0.386	1.17	
71-55-6	1,1,1-Trichloroethane	U	1.17	ug/kg	0.351	1.17	
563-58-6	1,1-Dichloropropene	U	1.17	ug/kg	0.351	1.17	
56-23-5	Carbon tetrachloride	U	1.17	ug/kg	0.351	1.17	
107-06-2	1,2-Dichloroethane	U	1.17	ug/kg	0.351	1.17	
71-43-2	Benzene	U	1.17	ug/kg	0.351	1.17	
79-01-6	Trichloroethylene	U	1.17	ug/kg	0.386	1.17	
78-87-5	1,2-Dichloropropane	U	1.17	ug/kg	0.351	1.17	
75-27-4	Bromodichloromethane	U	1.17	ug/kg	0.351	1.17	
74-95-3	Dibromomethane	U	1.17	ug/kg	0.351	1.17	
108-10-1	4-Methyl-2-pentanone	U	5.84	ug/kg	1.46	5.84	
10061-01-5	cis-1,3-Dichloropropylene	U	1.17	ug/kg	0.351	1.17	
108-88-3	Toluene	U	1.17	ug/kg	0.351	1.17	
10061-02-6	trans-1,3-Dichloropropylene	U	1.17	ug/kg	0.351	1.17	
79-00-5	1,1,2-Trichloroethane	U	1.17	ug/kg	0.351	1.17	
591-78-6	2-Hexanone	U	5.84	ug/kg	1.75	5.84	UJ,V7c
142-28-9	1,3-Dichloropropane	U	1.17	ug/kg	0.351	1.17	
127-18-4	Tetrachloroethylene	U	1.17	ug/kg	0.351	1.17	
124-48-1	Dibromochloromethane	U	1.17	ug/kg	0.351	1.17	
106-93-4	1,2-Dibromoethane	U	1.17	ug/kg	0.351	1.17	
108-90-7	Chlorobenzene	U	1.17	ug/kg	0.351	1.17	

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 246330005

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 14.4
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.17	ug/kg	0.351	1.17
179601-23-1	m,p-Xylenes	U	2.34	ug/kg	0.351	2.34
95-47-6	o-Xylene	U	1.17	ug/kg	0.351	1.17
100-42-5	Styrene	U	1.17	ug/kg	0.351	1.17
75-25-2	Bromoform	U	1.17	ug/kg	0.351	1.17
79-34-5	1,1,2,2-Tetrachloroethane	U	1.17	ug/kg	0.351	1.17
96-18-4	1,2,3-Trichloropropane	U	1.17	ug/kg	0.351	1.17
108-86-1	Bromobenzene	U	1.17	ug/kg	0.351	1.17
103-65-1	n-Propylbenzene	U	1.17	ug/kg	0.351	1.17
95-49-8	2-Chlorotoluene	U	1.17	ug/kg	0.351	1.17
98-82-8	Isopropylbenzene	U	1.17	ug/kg	0.351	1.17
108-67-8	1,3,5-Trimethylbenzene	U	1.17	ug/kg	0.351	1.17
106-43-4	4-Chlorotoluene	U	1.17	ug/kg	0.351	1.17
98-06-6	tert-Butylbenzene	U	1.17	ug/kg	0.351	1.17
95-63-6	1,2,4-Trimethylbenzene	U	1.17	ug/kg	0.351	1.17
135-98-8	sec-Butylbenzene	U	1.17	ug/kg	0.351	1.17
99-87-6	4-Isopropyltoluene	U	1.17	ug/kg	0.351	1.17
541-73-1	1,3-Dichlorobenzene	U	1.17	ug/kg	0.351	1.17
106-46-7	1,4-Dichlorobenzene	U	1.17	ug/kg	0.351	1.17
104-51-8	n-Butylbenzene	U	1.17	ug/kg	0.351	1.17
96-12-8	1,2-Dibromo-3-chloropropane	U	1.17	ug/kg	0.351	1.17
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.84	ug/kg	1.87	5.84
630-20-6	1,1,1,2-Tetrachloroethane	U	1.17	ug/kg	0.351	1.17
95-50-1	1,2-Dichlorobenzene	U	1.17	ug/kg	0.351	1.17

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
No Tentatively Identified Compounds Found				ug/kg		

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1567
Lab Sample ID: 246330007

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 27.6
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	
75-71-8	Dichlorodifluoromethane	U	1.38	ug/kg	0.470	1.38	UJ,V7c
74-87-3	Chloromethane	U	1.38	ug/kg	0.414	1.38	
75-01-4	Vinyl chloride	U	1.38	ug/kg	0.414	1.38	
74-83-9	Bromomethane	U	1.38	ug/kg	0.414	1.38	
75-00-3	Chloroethane	U	1.38	ug/kg	0.414	1.38	
75-69-4	Trichlorofluoromethane	U	1.38	ug/kg	0.414	1.38	
67-64-1	Acetone	U	6.91	ug/kg	2.29	6.91	UJ,V7c
75-35-4	1,1-Dichloroethylene	U	1.38	ug/kg	0.414	1.38	
74-88-4	Iodomethane	U	6.91	ug/kg	2.21	6.91	
75-09-2	Methylene chloride	U	6.91	ug/kg	2.76	6.91	
75-15-0	Carbon disulfide	U	6.91	ug/kg	1.73	6.91	
156-60-5	trans-1,2-Dichloroethylene	U	1.38	ug/kg	0.414	1.38	
75-34-3	1,1-Dichloroethane	U	1.38	ug/kg	0.414	1.38	
78-93-3	2-Butanone	U	6.91	ug/kg	2.07	6.91	UJ,V7c
156-59-2	cis-1,2-Dichloroethylene	U	1.38	ug/kg	0.414	1.38	
594-20-7	2,2-Dichloropropane	U	1.38	ug/kg	0.414	1.38	
67-66-3	Chloroform	U	1.38	ug/kg	0.414	1.38	
74-97-5	Bromochloromethane	U	1.38	ug/kg	0.456	1.38	
71-55-6	1,1,1-Trichloroethane	U	1.38	ug/kg	0.414	1.38	
563-58-6	1,1-Dichloropropene	U	1.38	ug/kg	0.414	1.38	
56-23-5	Carbon tetrachloride	U	1.38	ug/kg	0.414	1.38	
107-06-2	1,2-Dichloroethane	U	1.38	ug/kg	0.414	1.38	
71-43-2	Benzene	U	1.38	ug/kg	0.414	1.38	
79-01-6	Trichloroethylene	U	1.38	ug/kg	0.456	1.38	
78-87-5	1,2-Dichloropropane	U	1.38	ug/kg	0.414	1.38	
75-27-4	Bromodichloromethane	U	1.38	ug/kg	0.414	1.38	
74-95-3	Dibromomethane	U	1.38	ug/kg	0.414	1.38	
108-10-1	4-Methyl-2-pentanone	U	6.91	ug/kg	1.73	6.91	
10061-01-5	cis-1,3-Dichloropropylene	U	1.38	ug/kg	0.414	1.38	
108-88-3	Toluene	U	1.38	ug/kg	0.414	1.38	
10061-02-6	trans-1,3-Dichloropropylene	U	1.38	ug/kg	0.414	1.38	
79-00-5	1,1,2-Trichloroethane	U	1.38	ug/kg	0.414	1.38	
591-78-6	2-Hexanone	U	6.91	ug/kg	2.07	6.91	UJ,V7c
142-28-9	1,3-Dichloropropane	U	1.38	ug/kg	0.414	1.38	
127-18-4	Tetrachloroethylene	U	1.38	ug/kg	0.414	1.38	
124-48-1	Dibromochloromethane	U	1.38	ug/kg	0.414	1.38	
106-93-4	1,2-Dibromoethane	U	1.38	ug/kg	0.414	1.38	
108-90-7	Chlorobenzene	U	1.38	ug/kg	0.414	1.38	

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330007	Date Received: 02/05/2010 09:00	%Moisture: 27.6
Client ID: RE15-10-8308	Client: LANL010	Project: LANL01004
Batch ID: 952150	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/12/2010 05:46	Inst: VOA7.I	Dilution: 1
Prep Date: 02/11/2010 14:26	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7y437.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.38	ug/kg	0.414	1.38
179601-23-1	m,p-Xylenes	U	2.76	ug/kg	0.414	2.76
95-47-6	o-Xylene	U	1.38	ug/kg	0.414	1.38
100-42-5	Styrene	U	1.38	ug/kg	0.414	1.38
75-25-2	Bromoform	U	1.38	ug/kg	0.414	1.38
79-34-5	1,1,2,2-Tetrachloroethane	U	1.38	ug/kg	0.414	1.38
96-18-4	1,2,3-Trichloropropane	U	1.38	ug/kg	0.414	1.38
108-86-1	Bromobenzene	U	1.38	ug/kg	0.414	1.38
103-65-1	n-Propylbenzene	U	1.38	ug/kg	0.414	1.38
95-49-8	2-Chlorotoluene	U	1.38	ug/kg	0.414	1.38
98-82-8	Isopropylbenzene	U	1.38	ug/kg	0.414	1.38
108-67-8	1,3,5-Trimethylbenzene	U	1.38	ug/kg	0.414	1.38
106-43-4	4-Chlorotoluene	U	1.38	ug/kg	0.414	1.38
98-06-6	tert-Butylbenzene	U	1.38	ug/kg	0.414	1.38
95-63-6	1,2,4-Trimethylbenzene	U	1.38	ug/kg	0.414	1.38
135-98-8	sec-Butylbenzene	U	1.38	ug/kg	0.414	1.38
99-87-6	4-Isopropyltoluene	J	0.942	ug/kg	0.414	1.38
541-73-1	1,3-Dichlorobenzene	U	1.38	ug/kg	0.414	1.38
106-46-7	1,4-Dichlorobenzene	U	1.38	ug/kg	0.414	1.38
104-51-8	n-Butylbenzene	U	1.38	ug/kg	0.414	1.38
96-12-8	1,2-Dibromo-3-chloropropane	U	1.38	ug/kg	0.414	1.38
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.91	ug/kg	2.21	6.91
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.38	ug/kg	0.414	1.38
95-50-1	1,2-Dichlorobenzene	U	1.38	ug/kg	0.414	1.38

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Hydrocarbon	19.65	12.5	ug/kg		J
	Unknown Hydrocarbon	20.62	27.5	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 246330006

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 10.6
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE15-10-8309
 Batch ID: 952150
 Run Date: 02/12/2010 05:11
 Prep Date: 02/11/2010 14:24
 Data File: 7y436.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	
75-71-8	Dichlorodifluoromethane	U	1.12	ug/kg	0.380	1.12	UJ,V7c
74-87-3	Chloromethane	U	1.12	ug/kg	0.336	1.12	
75-01-4	Vinyl chloride	U	1.12	ug/kg	0.336	1.12	
74-83-9	Bromomethane	U	1.12	ug/kg	0.336	1.12	
75-00-3	Chloroethane	U	1.12	ug/kg	0.336	1.12	
75-69-4	Trichlorofluoromethane	U	1.12	ug/kg	0.336	1.12	
67-64-1	Acetone	U	5.60	ug/kg	1.86	5.60	UJ,V7c
75-35-4	1,1-Dichloroethylene	U	1.12	ug/kg	0.336	1.12	
74-88-4	Iodomethane	U	5.60	ug/kg	1.79	5.60	
75-09-2	Methylene chloride	U	5.60	ug/kg	2.24	5.60	
75-15-0	Carbon disulfide	U	5.60	ug/kg	1.40	5.60	
156-60-5	trans-1,2-Dichloroethylene	U	1.12	ug/kg	0.336	1.12	
75-34-3	1,1-Dichloroethane	U	1.12	ug/kg	0.336	1.12	
78-93-3	2-Butanone	U	5.60	ug/kg	1.68	5.60	UJ,V7c
156-59-2	cis-1,2-Dichloroethylene	U	1.12	ug/kg	0.336	1.12	
594-20-7	2,2-Dichloropropane	U	1.12	ug/kg	0.336	1.12	
67-66-3	Chloroform	U	1.12	ug/kg	0.336	1.12	
74-97-5	Bromochloromethane	U	1.12	ug/kg	0.369	1.12	
71-55-6	1,1,1-Trichloroethane	U	1.12	ug/kg	0.336	1.12	
563-58-6	1,1-Dichloropropene	U	1.12	ug/kg	0.336	1.12	
56-23-5	Carbon tetrachloride	U	1.12	ug/kg	0.336	1.12	
107-06-2	1,2-Dichloroethane	U	1.12	ug/kg	0.336	1.12	
71-43-2	Benzene	U	1.12	ug/kg	0.336	1.12	
79-01-6	Trichloroethylene	U	1.12	ug/kg	0.369	1.12	
78-87-5	1,2-Dichloropropane	U	1.12	ug/kg	0.336	1.12	
75-27-4	Bromodichloromethane	U	1.12	ug/kg	0.336	1.12	
74-95-3	Dibromomethane	U	1.12	ug/kg	0.336	1.12	
108-10-1	4-Methyl-2-pentanone	U	5.60	ug/kg	1.40	5.60	
10061-01-5	cis-1,3-Dichloropropylene	U	1.12	ug/kg	0.336	1.12	
108-88-3	Toluene	U	1.12	ug/kg	0.336	1.12	
10061-02-6	trans-1,3-Dichloropropylene	U	1.12	ug/kg	0.336	1.12	
79-00-5	1,1,2-Trichloroethane	U	1.12	ug/kg	0.336	1.12	
591-78-6	2-Hexanone	U	5.60	ug/kg	1.68	5.60	UJ,V7c
142-28-9	1,3-Dichloropropane	U	1.12	ug/kg	0.336	1.12	
127-18-4	Tetrachloroethylene	U	1.12	ug/kg	0.336	1.12	
124-48-1	Dibromochloromethane	U	1.12	ug/kg	0.336	1.12	
106-93-4	1,2-Dibromoethane	U	1.12	ug/kg	0.336	1.12	
108-90-7	Chlorobenzene	U	1.12	ug/kg	0.336	1.12	

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 246330006

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Allquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 10.6
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE15-10-8309
 Batch ID: 952150
 Run Date: 02/12/2010 05:11
 Prep Date: 02/11/2010 14:24
 Data File: 7y436.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.12	ug/kg	0.336	1.12
179601-23-1	m,p-Xylenes	U	2.24	ug/kg	0.336	2.24
95-47-6	o-Xylene	U	1.12	ug/kg	0.336	1.12
100-42-5	Styrene	U	1.12	ug/kg	0.336	1.12
75-25-2	Bromoform	U	1.12	ug/kg	0.336	1.12
79-34-5	1,1,2,2-Tetrachloroethane	U	1.12	ug/kg	0.336	1.12
96-18-4	1,2,3-Trichloropropane	U	1.12	ug/kg	0.336	1.12
108-86-1	Bromobenzene	U	1.12	ug/kg	0.336	1.12
103-65-1	n-Propylbenzene	U	1.12	ug/kg	0.336	1.12
95-49-8	2-Chlorotoluene	U	1.12	ug/kg	0.336	1.12
98-82-8	Isopropylbenzene	U	1.12	ug/kg	0.336	1.12
108-67-8	1,3,5-Trimethylbenzene	U	1.12	ug/kg	0.336	1.12
106-43-4	4-Chlorotoluene	U	1.12	ug/kg	0.336	1.12
98-06-6	tert-Butylbenzene	U	1.12	ug/kg	0.336	1.12
95-63-6	1,2,4-Trimethylbenzene	U	1.12	ug/kg	0.336	1.12
135-98-8	sec-Butylbenzene	U	1.12	ug/kg	0.336	1.12
99-87-6	4-Isopropyltoluene	U	1.12	ug/kg	0.336	1.12
541-73-1	1,3-Dichlorobenzene	U	1.12	ug/kg	0.336	1.12
106-46-7	1,4-Dichlorobenzene	U	1.12	ug/kg	0.336	1.12
104-51-8	n-Butylbenzene	U	1.12	ug/kg	0.336	1.12
96-12-8	1,2-Dibromo-3-chloropropane	U	1.12	ug/kg	0.336	1.12
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.60	ug/kg	1.79	5.60
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.12	ug/kg	0.336	1.12
95-50-1	1,2-Dichlorobenzene	U	1.12	ug/kg	0.336	1.12

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown Siloxane	21.55	8.04	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
Lab Sample ID: 246330010

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 20.9
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	
75-71-8	Dichlorodifluoromethane	U	1.26	ug/kg	0.430	1.26	UJ,V7c
74-87-3	Chloromethane	U	1.26	ug/kg	0.379	1.26	
75-01-4	Vinyl chloride	U	1.26	ug/kg	0.379	1.26	
74-83-9	Bromomethane	U	1.26	ug/kg	0.379	1.26	
75-00-3	Chloroethane	U	1.26	ug/kg	0.379	1.26	
75-69-4	Trichlorofluoromethane	U	1.26	ug/kg	0.379	1.26	UJ,V7c
67-64-1	Acetone	U	6.32	ug/kg	2.10	6.32	UJ,V7c
75-35-4	1,1-Dichloroethylene	U	1.26	ug/kg	0.379	1.26	
74-88-4	Iodomethane	U	6.32	ug/kg	2.02	6.32	
75-09-2	Methylene chloride	U	6.32	ug/kg	2.53	6.32	
75-15-0	Carbon disulfide	U	6.32	ug/kg	1.58	6.32	
156-60-5	trans-1,2-Dichloroethylene	U	1.26	ug/kg	0.379	1.26	
75-34-3	1,1-Dichloroethane	U	1.26	ug/kg	0.379	1.26	
78-93-3	2-Butanone	U	6.32	ug/kg	1.90	6.32	UJ,V7c
156-59-2	cis-1,2-Dichloroethylene	U	1.26	ug/kg	0.379	1.26	
594-20-7	2,2-Dichloropropane	U	1.26	ug/kg	0.379	1.26	
67-66-3	Chloroform	U	1.26	ug/kg	0.379	1.26	
74-97-5	Bromochloromethane	U	1.26	ug/kg	0.417	1.26	
71-55-6	1,1,1-Trichloroethane	U	1.26	ug/kg	0.379	1.26	
563-58-6	1,1-Dichloropropene	U	1.26	ug/kg	0.379	1.26	
56-23-5	Carbon tetrachloride	U	1.26	ug/kg	0.379	1.26	
107-06-2	1,2-Dichloroethane	U	1.26	ug/kg	0.379	1.26	
71-43-2	Benzene	U	1.26	ug/kg	0.379	1.26	
79-01-6	Trichloroethylene	U	1.26	ug/kg	0.417	1.26	
78-87-5	1,2-Dichloropropane	U	1.26	ug/kg	0.379	1.26	
75-27-4	Bromodichloromethane	U	1.26	ug/kg	0.379	1.26	
74-95-3	Dibromomethane	U	1.26	ug/kg	0.379	1.26	
108-10-1	4-Methyl-2-pentanone	U	6.32	ug/kg	1.58	6.32	
10061-01-5	cis-1,3-Dichloropropylene	U	1.26	ug/kg	0.379	1.26	
108-88-3	Toluene	U	1.26	ug/kg	0.379	1.26	
10061-02-6	trans-1,3-Dichloropropylene	U	1.26	ug/kg	0.379	1.26	
79-00-5	1,1,2-Trichloroethane	U	1.26	ug/kg	0.379	1.26	
591-78-6	2-Hexanone	U	6.32	ug/kg	1.90	6.32	UJ,V7c
142-28-9	1,3-Dichloropropane	U	1.26	ug/kg	0.379	1.26	
127-18-4	Tetrachloroethylene	U	1.26	ug/kg	0.379	1.26	
124-48-1	Dibromochloromethane	U	1.26	ug/kg	0.379	1.26	
106-93-4	1,2-Dibromoethane	U	1.26	ug/kg	0.379	1.26	
108-90-7	Chlorobenzene	U	1.26	ug/kg	0.379	1.26	

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330010	Date Received: 02/05/2010 09:00	%Moisture: 20.9
Client ID: RE15-10-8324	Client: LANL010	Project: LANL01004
Batch ID: 952150	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/12/2010 18:56	Inst: VOA7.I	Dilution: 1
Prep Date: 02/12/2010 15:16	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7y513.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.26	ug/kg	0.379	1.26
179601-23-1	m,p-Xylenes	U	2.53	ug/kg	0.379	2.53
95-47-6	o-Xylene	U	1.26	ug/kg	0.379	1.26
100-42-5	Styrene	U	1.26	ug/kg	0.379	1.26
75-25-2	Bromoform	U	1.26	ug/kg	0.379	1.26
79-34-5	1,1,2,2-Tetrachloroethane	U	1.26	ug/kg	0.379	1.26
96-18-4	1,2,3-Trichloropropane	U	1.26	ug/kg	0.379	1.26
108-86-1	Bromobenzene	U	1.26	ug/kg	0.379	1.26
103-65-1	n-Propylbenzene	U	1.26	ug/kg	0.379	1.26
95-49-8	2-Chlorotoluene	U	1.26	ug/kg	0.379	1.26
98-82-8	Isopropylbenzene	U	1.26	ug/kg	0.379	1.26
108-67-8	1,3,5-Trimethylbenzene	U	1.26	ug/kg	0.379	1.26
106-43-4	4-Chlorotoluene	U	1.26	ug/kg	0.379	1.26
98-06-6	tert-Butylbenzene	U	1.26	ug/kg	0.379	1.26
95-63-6	1,2,4-Trimethylbenzene	U	1.26	ug/kg	0.379	1.26
135-98-8	sec-Butylbenzene	U	1.26	ug/kg	0.379	1.26
99-87-6	4-Isopropyltoluene	U	1.26	ug/kg	0.379	1.26
541-73-1	1,3-Dichlorobenzene	U	1.26	ug/kg	0.379	1.26
106-46-7	1,4-Dichlorobenzene	U	1.26	ug/kg	0.379	1.26
104-51-8	n-Butylbenzene	U	1.26	ug/kg	0.379	1.26
96-12-8	1,2-Dibromo-3-chloropropane	U	1.26	ug/kg	0.379	1.26
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.32	ug/kg	2.02	6.32
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.26	ug/kg	0.379	1.26
95-50-1	1,2-Dichlorobenzene	U	1.26	ug/kg	0.379	1.26

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
No Tentatively Identified Compounds Found				ug/kg		

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 246330001

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00

Matrix: S

Client ID: RE15-10-8332
 Batch ID: 952150
 Run Date: 02/12/2010 02:17
 Prep Date: 02/11/2010 14:10
 Data File: 7y431.d

Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.1
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	
75-71-8	Dichlorodifluoromethane	U	1.00	ug/kg	0.340	1.00	UJ,V7c
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	UJ,V7c
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	UJ,V7c
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	UJ,V7c
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: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: S
Lab Sample ID: 246330001	Date Received: 02/05/2010 09:00	
Client ID: RE15-10-8332	Client: LANL010	Project: LANL01004
Batch ID: 952150	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/12/2010 02:17	Inst: VOA7.I	Dilution: 1
Prep Date: 02/11/2010 14:10	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7y431.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

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	Flt	Qual
No Tentatively Identified Compounds Found				ug/kg		

DATA VALIDATION COVER SHEET

5115-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1567 VALIDATION DATE: 04/01/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Lisa Burgess 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): GC/MS SVOC

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 |


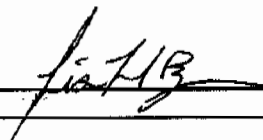
Comments/problems noted (include information about requests for further information submitted to the contract laboratory and agreed-upon date of resolution and contract laboratory point of contact):


- Sample RE15-10-8300 was re-extracted and re-analyzed >1X but ≤2X the method specified HT due to surrogate outliers in the original analysis and both sets of data were reported. Because there was only one outlier per fraction, the original analysis was selected for validation, based on professional judgment. The re-analysis results were all NDs and, thus, were qualified UJ,SV88.
- The ICV/CCV %Ds were >20% for hexachlorocyclopentadiene and the CCV %Ds were >20% for pyridine, benzyl alcohol, m-nitroaniline, 4-nitrophenol, and p-nitroaniline for all samples. The associated sample results were NDs and, thus, were qualified UJ,SV7c.
- The 2-fluorobiphenyl and 2,4,6-tribromophenol surrogate %Rs were < the laboratory LAL but ≥10% for sample RE15-10-8300. Because there was only one outlier per fraction, no sample results were qualified.
- The MS and MSD %Rs and the MS/MSD RPDs did not meet laboratory acceptance criteria for numerous compounds. It should be noted that the MS/MSD was performed on a sample from another LANL RN, the parent sample raw data were not included in the data package. Since MS/MSD analysis are not a client requirement for this method, sample data were not qualified.

Reviewed by: Mary Donovan


Level: I

Date: 04/01/10

DATA VALIDATION COVER SHEET	
5115-1 Data Validation Cover Sheet	Records Use only  Los Alamos NATIONAL LABORATORY EST. 1942
VALIDATOR'S SIGNATURE: <u></u> DATE: <u>04/01/10</u>	
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 checked="" type="checkbox"/>	<input 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	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				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
			possible problems with sample quantitation. Follow method-specific windows.		
<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 checked="" type="checkbox"/>	<input 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	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				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
			external laboratory limits located within the associated data package.		
<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 checked="" type="checkbox"/>	<input 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

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"/>	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: 10-1567
Lab Sample ID: 246330009

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.09 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 30.6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8300
Batch ID: 950447
Run Date: 02/16/2010 22:53
Prep Date: 02/09/2010 11:07
Data File: s6b1627.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	479	ug/kg	95.8	479
108-95-2	Phenol	U	479	ug/kg	95.8	479
95-57-8	2-Chlorophenol	U	479	ug/kg	95.8	479
106-46-7	1,4-Dichlorobenzene	U	479	ug/kg	95.8	479
621-64-7	N-Nitrosodipropylamine	U	479	ug/kg	95.8	479
59-50-7	4-Chloro-3-methylphenol	U	479	ug/kg	95.8	479
83-32-9	Acenaphthene	U	47.9	ug/kg	15.8	47.9
121-14-2	2,4-Dinitrotoluene	U	479	ug/kg	47.9	479
100-02-7	4-Nitrophenol	U	479	ug/kg	158	479 UJ,SV7c
87-86-5	Pentachlorophenol	U	479	ug/kg	120	479
129-00-0	Pyrene	U	47.9	ug/kg	14.4	47.9
110-86-1	Pyridine	U	479	ug/kg	95.8	479 UJ,SV7c
62-53-3	Aniline	U	479	ug/kg	144	479
111-44-4	bis(2-Chloroethyl) ether	U	479	ug/kg	95.8	479
541-73-1	1,3-Dichlorobenzene	U	479	ug/kg	95.8	479
100-51-6	Benzyl alcohol	U	479	ug/kg	144	479 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	479	ug/kg	95.8	479
108-60-1	bis(2-Chloroisopropyl) ether	U	479	ug/kg	95.8	479
95-48-7	o-Cresol	U	479	ug/kg	95.8	479
65794-96-9	m,p-Cresols	U	479	ug/kg	144	479
67-72-1	Hexachloroethane	U	479	ug/kg	95.8	479
98-95-3	Nitrobenzene	U	479	ug/kg	95.8	479
78-59-1	Isophorone	U	479	ug/kg	95.8	479
88-75-5	2-Nitrophenol	U	479	ug/kg	95.8	479
105-67-9	2,4-Dimethylphenol	U	479	ug/kg	168	479
111-91-1	bis(2-Chloroethoxy)methane	U	479	ug/kg	95.8	479
120-83-2	2,4-Dichlorophenol	U	479	ug/kg	95.8	479
65-85-0	Benzoic acid	U	958	ug/kg	240	958
91-20-3	Naphthalene	U	47.9	ug/kg	14.4	47.9
106-47-8	4-Chloroaniline	U	479	ug/kg	95.8	479
87-68-3	Hexachlorobutadiene	U	479	ug/kg	95.8	479
91-57-6	2-Methylnaphthalene	U	47.9	ug/kg	9.58	47.9
77-47-4	Hexachlorocyclopentadiene	U	479	ug/kg	95.8	479 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	479	ug/kg	95.8	479
95-95-4	2,4,5-Trichlorophenol	U	479	ug/kg	95.8	479
91-58-7	2-Chloronaphthalene	U	47.9	ug/kg	15.8	47.9
88-74-4	2-Nitroaniline	U	479	ug/kg	95.8	479
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	479	ug/kg	95.8	479 UJ,SV7c

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330009	Date Received: 02/05/2010 09:00	%Moisture: 30.6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8300	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.I	Dilution: 1
Run Date: 02/16/2010 22:53	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Allquot: 30.09 g	Final Volume: 1 mL
Data File: s6b1627.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
<i>m-Nitroaniline</i>						
131-11-3	Dimethylphthalate	U	479	ug/kg	95.8	479
606-20-2	2,6-Dinitrotoluene	U	479	ug/kg	47.9	479
208-96-8	Acenaphthylene	U	47.9	ug/kg	14.4	47.9
51-28-5	2,4-Dinitrophenol	U	958	ug/kg	182	958
132-64-9	Dibenzofuran	U	479	ug/kg	95.8	479
84-66-2	Diethylphthalate	U	479	ug/kg	95.8	479
86-73-7	Fluorene	U	47.9	ug/kg	14.4	47.9
7005-72-3	4-Chlorophenylphenylether	U	479	ug/kg	95.8	479
534-52-1	2-Methyl-4,6-dinitrophenol	U	479	ug/kg	95.8	479
100-01-6	4-Nitroaniline	U	479	ug/kg	144	479 UJ,SV7c
<i>p-Nitroaniline</i>						
122-39-4	Diphenylamine	U	479	ug/kg	95.8	479
122-66-7	Azobenzene	U	479	ug/kg	95.8	479
<i>1,2-Diphenylhydrazine</i>						
101-55-3	4-Bromophenylphenylether	U	479	ug/kg	95.8	479
118-74-1	Hexachlorobenzene	U	479	ug/kg	95.8	479
85-01-8	Phenanthrene	U	47.9	ug/kg	14.4	47.9
120-12-7	Anthracene	U	47.9	ug/kg	9.58	47.9
84-74-2	Di-n-butylphthalate	U	479	ug/kg	95.8	479
206-44-0	Fluoranthene	U	47.9	ug/kg	14.4	47.9
85-68-7	Butylbenzylphthalate	U	479	ug/kg	95.8	479
56-55-3	Benzo(a)anthracene	U	47.9	ug/kg	14.4	47.9
91-94-1	3,3'-Dichlorobenzidine	U	479	ug/kg	144	479
218-01-9	Chrysene	U	47.9	ug/kg	14.4	47.9
117-81-7	bis(2-Ethylhexyl)phthalate	U	479	ug/kg	95.8	479
117-84-0	Di-n-octylphthalate	U	479	ug/kg	95.8	479
205-99-2	Benzo(b)fluoranthene	U	47.9	ug/kg	14.4	47.9
207-08-9	Benzo(k)fluoranthene	U	47.9	ug/kg	14.4	47.9
50-32-8	Benzo(a)pyrene	U	47.9	ug/kg	14.4	47.9
193-39-5	Indeno(1,2,3-cd)pyrene	U	47.9	ug/kg	14.4	47.9
53-70-3	Dibenzo(a,h)anthracene	U	47.9	ug/kg	14.4	47.9
191-24-2	Benzo(ghi)perylene	U	47.9	ug/kg	14.4	47.9
120-82-1	1,2,4-Trichlorobenzene	U	479	ug/kg	95.8	479

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	302	ug/kg		JA
79-92-5	Camphene	4.17	297	ug/kg	97	NJ

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330009	Date Received: 02/05/2010 09:00	%Moisture: 30.6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8300	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.I	Dilution: 1
Run Date: 02/16/2010 22:53	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Aliquot: 30.09 g	Final Volume: 1 mL
Data File: s6b1627.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	Flt	Qual
470-82-6	Eucalyptol	4.78	301	ug/kg	98	NJ
5655-61-8	Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimeth	6.5	223	ug/kg	97	NJ
	Unknown	10.64	226	ug/kg		J
	Unknown	10.73	315	ug/kg		J
	Unknown	10.78	248	ug/kg		J
5155-70-4	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	12.07	238	ug/kg	95	NJ
112-84-5	13-Docosenamide, (Z)-	13.5	741	ug/kg	96	NJ
593-49-7	Heptacosane	14.1	713	ug/kg	91	NJ
112-95-8	Eicosane	15.34	1140	ug/kg	96	NJ

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330009	Date Received: 02/05/2010 09:00	%Moisture: 30.6
Client ID: RE15-10-8300RE	Client: LANL010	Project: LANL01004
Batch ID: 954451	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/19/2010 01:52	Inst: MSD4.I	Dilution: 1
Prep Date: 02/18/2010 13:52	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4b1842.d	Allquot: 30.08 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualfler	Result	Units	MDL/LOD	PQL/LOQ	
62-75-9	N-Methyl-N-nitrosomethylamine	Uh	479	ug/kg	95.9	479	UJ.SV88
108-95-2	Phenol	Uh	479	ug/kg	95.9	479	
95-57-8	2-Chlorophenol	Uh	479	ug/kg	95.9	479	
106-46-7	1,4-Dichlorobenzene	Uh	479	ug/kg	95.9	479	
621-64-7	N-Nitrosodipropylamine	Uh	479	ug/kg	95.9	479	
59-50-7	4-Chloro-3-methylphenol	Uh	479	ug/kg	95.9	479	
83-32-9	Acenaphthene	Uh	47.9	ug/kg	15.8	47.9	
121-14-2	2,4-Dinitrotoluene	Uh	479	ug/kg	47.9	479	
100-02-7	4-Nitrophenol	Uh	479	ug/kg	158	479	
87-86-5	Pentachlorophenol	Uh	479	ug/kg	120	479	
129-00-0	Pyrene	Uh	47.9	ug/kg	14.4	47.9	
110-86-1	Pyridine	Uh	479	ug/kg	95.9	479	
62-53-3	Aniline	Uh	479	ug/kg	144	479	
111-44-4	bis(2-Chloroethyl) ether	Uh	479	ug/kg	95.9	479	
541-73-1	1,3-Dichlorobenzene	Uh	479	ug/kg	95.9	479	
100-51-6	Benzyl alcohol	Uh	479	ug/kg	144	479	
95-50-1	1,2-Dichlorobenzene	Uh	479	ug/kg	95.9	479	
108-60-1	bis(2-Chloroisopropyl) ether	Uh	479	ug/kg	95.9	479	
95-48-7	o-Cresol	Uh	479	ug/kg	95.9	479	
65794-96-9	m,p-Cresols	Uh	479	ug/kg	144	479	
67-72-1	Hexachloroethane	Uh	479	ug/kg	95.9	479	
98-95-3	Nitrobenzene	Uh	479	ug/kg	95.9	479	
78-59-1	Isophorone	Uh	479	ug/kg	95.9	479	
88-75-5	2-Nitrophenol	Uh	479	ug/kg	95.9	479	
105-67-9	2,4-Dimethylphenol	Uh	479	ug/kg	168	479	
111-91-1	bis(2-Chloroethoxy)methane	Uh	479	ug/kg	95.9	479	
120-83-2	2,4-Dichlorophenol	Uh	479	ug/kg	95.9	479	
65-85-0	Benzoic acid	Uh	959	ug/kg	240	959	
91-20-3	Naphthalene	Uh	47.9	ug/kg	14.4	47.9	
106-47-8	4-Chloroaniline	Uh	479	ug/kg	95.9	479	
87-68-3	Hexachlorobutadiene	Uh	479	ug/kg	95.9	479	
91-57-6	2-Methylnaphthalene	Uh	47.9	ug/kg	9.59	47.9	
77-47-4	Hexachlorocyclopentadiene	Uh	479	ug/kg	95.9	479	
88-06-2	2,4,6-Trichlorophenol	Uh	479	ug/kg	95.9	479	
95-95-4	2,4,5-Trichlorophenol	Uh	479	ug/kg	95.9	479	
91-58-7	2-Chloronaphthalene	Uh	47.9	ug/kg	15.8	47.9	
88-74-4	2-Nitroaniline	Uh	479	ug/kg	95.9	479	
	o-Nitroaniline						
99-09-2	3-Nitroaniline	Uh	479	ug/kg	95.9	479	

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

SDG Number: 10-1567
Lab Sample ID: 246330009

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Allquot: 30.08 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 30.6
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
<u>UJ.SV88</u>						
131-11-3	<i>m</i> -Nitroaniline Dimethylphthalate	Uh	479	ug/kg	95.9	479
606-20-2	2,6-Dinitrotoluene	Uh	479	ug/kg	47.9	479
208-96-8	Acenaphthylene	Uh	47.9	ug/kg	14.4	47.9
51-28-5	2,4-Dinitrophenol	Uh	959	ug/kg	182	959
132-64-9	Dibenzofuran	Uh	479	ug/kg	95.9	479
84-66-2	Diethylphthalate	Uh	479	ug/kg	95.9	479
86-73-7	Fluorene	Uh	47.9	ug/kg	14.4	47.9
7005-72-3	4-Chlorophenylphenylether	Uh	479	ug/kg	95.9	479
534-52-1	2-Methyl-4,6-dinitrophenol	Uh	479	ug/kg	95.9	479
100-01-6	4-Nitroaniline	Uh	479	ug/kg	144	479
122-39-4	<i>p</i> -Nitroaniline Diphenylamine	Uh	479	ug/kg	95.9	479
122-66-7	Azobenzene	Uh	479	ug/kg	95.9	479
101-55-3	1,2-Diphenylhydrazine 4-Bromophenylphenylether	Uh	479	ug/kg	95.9	479
118-74-1	Hexachlorobenzene	Uh	479	ug/kg	95.9	479
85-01-8	Phenanthrene	Uh	47.9	ug/kg	14.4	47.9
120-12-7	Anthracene	Uh	47.9	ug/kg	9.59	47.9
84-74-2	Di-n-butylphthalate	Uh	479	ug/kg	95.9	479
206-44-0	Fluoranthene	Uh	47.9	ug/kg	14.4	47.9
85-68-7	Butylbenzylphthalate	Uh	479	ug/kg	95.9	479
56-55-3	Benzo(a)anthracene	Uh	47.9	ug/kg	14.4	47.9
91-94-1	3,3'-Dichlorobenzidine	Uh	479	ug/kg	144	479
218-01-9	Chrysene	Uh	47.9	ug/kg	14.4	47.9
117-81-7	bis(2-Ethylhexyl)phthalate	Uh	479	ug/kg	95.9	479
117-84-0	Di-n-octylphthalate	Uh	479	ug/kg	95.9	479
205-99-2	Benzo(b)fluoranthene	Uh	47.9	ug/kg	14.4	47.9
207-08-9	Benzo(k)fluoranthene	Uh	47.9	ug/kg	14.4	47.9
50-32-8	Benzo(a)pyrene	Uh	47.9	ug/kg	14.4	47.9
193-39-5	Indeno(1,2,3-cd)pyrene	Uh	47.9	ug/kg	14.4	47.9
53-70-3	Dibenzo(a,h)anthracene	Uh	47.9	ug/kg	14.4	47.9
191-24-2	Benzo(ghi)perylene	Uh	47.9	ug/kg	14.4	47.9
120-82-1	1,2,4-Trichlorobenzene	Uh	479	ug/kg	95.9	479

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
107-92-6	Butanoic acid	2.6	228	ug/kg	90	NJ
503-74-2	Butanoic acid, 3-methyl-	2.89	212	ug/kg	83	NJ

Semi-Volatile
Certificate of Analysis
Sample Summary

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SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330009	Date Received: 02/05/2010 09:00	%Moisture: 30.6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8300RE	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 954451	Inst: MSD4.I	Dilution: 1
Run Date: 02/19/2010 01:52	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/18/2010 13:52	Allquot: 30.08 g	Final Volume: 1 mL
Data File: s4b1842.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
	Unknown Aldol Condensate	2.96	715	ug/kg		J
57-10-3	n-Hexadecanoic acid	7.31	688	ug/kg	97	NJ
	Unknown	7.48	216	ug/kg		J
112-63-0	9,12-Octadecadienoic acid (Z,Z)-, methyl	7.63	196	ug/kg	95	NJ
1000130-81-0	11,13-Dimethyl-12-tetradecen-1-ol acetat	7.72	548	ug/kg	87	NJ
	Unknown	7.75	481	ug/kg		J
1740-19-8	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	8.55	719	ug/kg	97	NJ
301-02-0	9-Octadecenamide, (Z)-	9.35	195	ug/kg	94	NJ
112-95-8	Eicosane	9.7	470	ug/kg	98	NJ
629-94-7	Heneicosane	10.64	659	ug/kg	90	NJ
	Unknown	12.19	253	ug/kg		J
	Unknown	12.82	388	ug/kg		J
	Unknown	13.44	214	ug/kg		J
	Unknown	13.94	200	ug/kg		J

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

SDG Number: 10-1567
Lab Sample ID: 246330008

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.01 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
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 UJ,SV7c
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
541-73-1	1,3-Dichlorobenzene	U	354	ug/kg	70.9	354
100-51-6	Benzyl alcohol	U	354	ug/kg	106	354 UJ,SV7c
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 UJ,SV7c
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 UJ,SV7c

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330008	Date Received: 02/05/2010 09:00	%Moisture: 6
Client ID: RE15-10-8301	Client: LANL010	Project: LANL01004
Batch ID: 950447	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/16/2010 22:25	Inst: MSD6.I	Dilution: 1
Prep Date: 02/09/2010 11:07	Analyst: NAG1	Inj. Vol: .5 uL
Data File: s6b1626.d	Aliquot: 30.01 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	354	ug/kg	70.9	354
208-96-8	2,6-Dinitrotoluene	U	354	ug/kg	35.4	354
51-28-5	Acenaphthylene	U	35.4	ug/kg	10.6	35.4
132-64-9	2,4-Dinitrophenol	U	709	ug/kg	135	709
84-66-2	Dibenzofuran	U	354	ug/kg	70.9	354
86-73-7	Diethylphthalate	U	354	ug/kg	70.9	354
7005-72-3	Fluorene	U	35.4	ug/kg	10.6	35.4
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
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
101-55-3	<i>1,2</i> -Diphenylhydrazine					
118-74-1	4-Bromophenylphenylether	U	354	ug/kg	70.9	354
85-01-8	Hexachlorobenzene	U	354	ug/kg	70.9	354
120-12-7	Phenanthrene	U	35.4	ug/kg	10.6	35.4
84-74-2	Anthracene	U	35.4	ug/kg	7.09	35.4
206-44-0	Di-n-butylphthalate	U	354	ug/kg	70.9	354
85-68-7	Fluoranthene	U	35.4	ug/kg	10.6	35.4
56-55-3	Butylbenzylphthalate	U	354	ug/kg	70.9	354
91-94-1	Benzo(a)anthracene	U	35.4	ug/kg	10.6	35.4
218-01-9	3,3'-Dichlorobenzidine	U	354	ug/kg	106	354
117-81-7	Chrysene	U	35.4	ug/kg	10.6	35.4
117-84-0	bis(2-Ethylhexyl)phthalate	U	354	ug/kg	70.9	354
205-99-2	Di-n-octylphthalate	U	354	ug/kg	70.9	354
207-08-9	Benzo(b)fluoranthene	U	35.4	ug/kg	10.6	35.4
50-32-8	Benzo(k)fluoranthene	U	35.4	ug/kg	10.6	35.4
193-39-5	Benzo(a)pyrene	U	35.4	ug/kg	10.6	35.4
53-70-3	Indeno(1,2,3-cd)pyrene	U	35.4	ug/kg	10.6	35.4
191-24-2	Dibenzo(a,h)anthracene	U	35.4	ug/kg	10.6	35.4
120-82-1	Benzo(ghi)perylene	U	35.4	ug/kg	10.6	35.4
	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 Aldol Condensate	3.27	283	ug/kg		JA
301-02-0	9-Octadecenamide, (Z)-	11.61	217	ug/kg	95	NJ

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330008	Date Received: 02/05/2010 09:00	%Moisture: 6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8301	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.I	Dilution: 1
Run Date: 02/16/2010 22:25	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Allquot: 30.01 g	Final Volume: 1 mL
Data File: s6b1626.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	Flt Qual
	Unknown		13.5	845	ug/kg	J
	Unknown		16.68	316	ug/kg	J

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

SDG Number: 10-1567
Lab Sample ID: 246330002

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Allquot: 30 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 20.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8304
Batch ID: 950447
Run Date: 02/16/2010 19:37
Prep Date: 02/09/2010 11:07
Data File: s6b1620.d

CAS No.	Parmname	Qualfier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	418	ug/kg	83.7	418
108-95-2	Phenol	U	418	ug/kg	83.7	418
95-57-8	2-Chlorophenol	U	418	ug/kg	83.7	418
106-46-7	1,4-Dichlorobenzene	U	418	ug/kg	83.7	418
621-64-7	N-Nitrosodipropylamine	U	418	ug/kg	83.7	418
59-50-7	4-Chloro-3-methylphenol	U	418	ug/kg	83.7	418
83-32-9	Acenaphthene	U	41.8	ug/kg	13.8	41.8
121-14-2	2,4-Dinitrotoluene	U	418	ug/kg	41.8	418
100-02-7	4-Nitrophenol	U	418	ug/kg	138	418 UJ,SV7c
87-86-5	Pentachlorophenol	U	418	ug/kg	105	418
129-00-0	Pyrene	U	41.8	ug/kg	12.6	41.8
110-86-1	Pyridine	U	418	ug/kg	83.7	418 UJ,SV7c
62-53-3	Aniline	U	418	ug/kg	126	418
111-44-4	bis(2-Chloroethyl) ether	U	418	ug/kg	83.7	418
541-73-1	1,3-Dichlorobenzene	U	418	ug/kg	83.7	418
100-51-6	Benzyl alcohol	U	418	ug/kg	126	418 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	418	ug/kg	83.7	418
108-60-1	bis(2-Chloroisopropyl) ether	U	418	ug/kg	83.7	418
95-48-7	o-Cresol	U	418	ug/kg	83.7	418
65794-96-9	m,p-Cresols	U	418	ug/kg	126	418
67-72-1	Hexachloroethane	U	418	ug/kg	83.7	418
98-95-3	Nitrobenzene	U	418	ug/kg	83.7	418
78-59-1	Isophorone	U	418	ug/kg	83.7	418
88-75-5	2-Nitrophenol	U	418	ug/kg	83.7	418
105-67-9	2,4-Dimethylphenol	U	418	ug/kg	146	418
111-91-1	bis(2-Chloroethoxy)methane	U	418	ug/kg	83.7	418
120-83-2	2,4-Dichlorophenol	U	418	ug/kg	83.7	418
65-85-0	Benzoic acid	U	837	ug/kg	209	837
91-20-3	Naphthalene	U	41.8	ug/kg	12.6	41.8
106-47-8	4-Chloroaniline	U	418	ug/kg	83.7	418
87-68-3	Hexachlorobutadiene	U	418	ug/kg	83.7	418
91-57-6	2-Methylnaphthalene	U	41.8	ug/kg	8.37	41.8
77-47-4	Hexachlorocyclopentadiene	U	418	ug/kg	83.7	418 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	418	ug/kg	83.7	418
95-95-4	2,4,5-Trichlorophenol	U	418	ug/kg	83.7	418
91-58-7	2-Chloronaphthalene	U	41.8	ug/kg	13.8	41.8
88-74-4	2-Nitroaniline	U	418	ug/kg	83.7	418
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	418	ug/kg	83.7	418 UJ,SV7c

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330002	Date Received: 02/05/2010 09:00	%Moisture: 20.3
Client ID: RE15-10-8304	Client: LANL010	Project: LANL01004
Batch ID: 950447	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/16/2010 19:37	Inst: MSD6.I	Dilution: 1
Prep Date: 02/09/2010 11:07	Analyst: NAG1	Inj. Vol: .5 uL
Data File: s6b1620.d	Aliquot: 30 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	418	ug/kg	83.7	418
606-20-2	2,6-Dinitrotoluene	U	418	ug/kg	41.8	418
208-96-8	Acenaphthylene	U	41.8	ug/kg	12.6	41.8
51-28-5	2,4-Dinitrophenol	U	837	ug/kg	159	837
132-64-9	Dibenzofuran	U	418	ug/kg	83.7	418
84-66-2	Diethylphthalate	U	418	ug/kg	83.7	418
86-73-7	Fluorene	U	41.8	ug/kg	12.6	41.8
7005-72-3	4-Chlorophenylphenylether	U	418	ug/kg	83.7	418
534-52-1	2-Methyl-4,6-dinitrophenol	U	418	ug/kg	83.7	418
100-01-6	4-Nitroaniline	U	418	ug/kg	126	418 UJ,SV7c
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	418	ug/kg	83.7	418
122-66-7	Azobenzene	U	418	ug/kg	83.7	418
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	418	ug/kg	83.7	418
118-74-1	Hexachlorobenzene	U	418	ug/kg	83.7	418
85-01-8	Phenanthrene	U	41.8	ug/kg	12.6	41.8
120-12-7	Anthracene	U	41.8	ug/kg	8.37	41.8
84-74-2	Di-n-butylphthalate	U	418	ug/kg	83.7	418
206-44-0	Fluoranthene	U	41.8	ug/kg	12.6	41.8
85-68-7	Butylbenzylphthalate	U	418	ug/kg	83.7	418
56-55-3	Benzo(a)anthracene	U	41.8	ug/kg	12.6	41.8
91-94-1	3,3'-Dichlorobenzidine	U	418	ug/kg	126	418
218-01-9	Chrysene	U	41.8	ug/kg	12.6	41.8
117-81-7	bis(2-Ethylhexyl)phthalate	U	418	ug/kg	83.7	418
117-84-0	Di-n-octylphthalate	U	418	ug/kg	83.7	418
205-99-2	Benzo(b)fluoranthene	U	41.8	ug/kg	12.6	41.8
207-08-9	Benzo(k)fluoranthene	U	41.8	ug/kg	12.6	41.8
50-32-8	Benzo(a)pyrene	U	41.8	ug/kg	12.6	41.8
193-39-5	Indeno(1,2,3-cd)pyrene	U	41.8	ug/kg	12.6	41.8
53-70-3	Dibenzo(a,h)anthracene	U	41.8	ug/kg	12.6	41.8
191-24-2	Benzo(ghi)perylene	U	41.8	ug/kg	12.6	41.8
120-82-1	1,2,4-Trichlorobenzene	U	418	ug/kg	83.7	418

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	224	ug/kg		JA
593-39-5	6-Octadecenoic acid, (Z)-	10.71	168	ug/kg	93	NJ

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330002	Date Received: 02/05/2010 09:00	%Moisture: 20.3
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8304	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.I	Dilution: 1
Run Date: 02/16/2010 19:37	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Allquot: 30 g	Final Volume: 1 mL
Data File: s6b1620.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	Flt	Qual
301-02-0	9-Octadecenamide, (Z)-	11.61	240	ug/kg	96	NJ
112-84-5	13-Docosenamide, (Z)-	13.5	866	ug/kg	93	NJ

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
Lab Sample ID: 246330003

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Allquot: 30.01 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 38.4
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	541	ug/kg	108	541
108-95-2	Phenol	U	541	ug/kg	108	541
95-57-8	2-Chlorophenol	U	541	ug/kg	108	541
106-46-7	1,4-Dichlorobenzene	U	541	ug/kg	108	541
621-64-7	N-Nitrosodipropylamine	U	541	ug/kg	108	541
59-50-7	4-Chloro-3-methylphenol	U	541	ug/kg	108	541
83-32-9	Acenaphthene	U	54.1	ug/kg	17.8	54.1
121-14-2	2,4-Dinitrotoluene	U	541	ug/kg	54.1	541
100-02-7	4-Nitrophenol	U	541	ug/kg	178	541 UJ,SV7c
87-86-5	Pentachlorophenol	U	541	ug/kg	135	541
129-00-0	Pyrene	U	54.1	ug/kg	16.2	54.1
110-86-1	Pyridine	U	541	ug/kg	108	541 UJ,SV7c
62-53-3	Aniline	U	541	ug/kg	162	541
111-44-4	bis(2-Chloroethyl) ether	U	541	ug/kg	108	541
541-73-1	1,3-Dichlorobenzene	U	541	ug/kg	108	541
100-51-6	Benzyl alcohol	U	541	ug/kg	162	541 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	541	ug/kg	108	541
108-60-1	bis(2-Chloroisopropyl)ether	U	541	ug/kg	108	541
95-48-7	o-Cresol	U	541	ug/kg	108	541
65794-96-9	m,p-Cresols	U	541	ug/kg	162	541
67-72-1	Hexachloroethane	U	541	ug/kg	108	541
98-95-3	Nitrobenzene	U	541	ug/kg	108	541
78-59-1	Isophorone	U	541	ug/kg	108	541
88-75-5	2-Nitrophenol	U	541	ug/kg	108	541
105-67-9	2,4-Dimethylphenol	U	541	ug/kg	189	541
111-91-1	bis(2-Chloroethoxy)methane	U	541	ug/kg	108	541
120-83-2	2,4-Dichlorophenol	U	541	ug/kg	108	541
65-85-0	Benzoic acid	U	1080	ug/kg	270	1080
91-20-3	Naphthalene	U	54.1	ug/kg	16.2	54.1
106-47-8	4-Chloroaniline	U	541	ug/kg	108	541
87-68-3	Hexachlorobutadiene	U	541	ug/kg	108	541
91-57-6	2-Methylnaphthalene	U	54.1	ug/kg	10.8	54.1
77-47-4	Hexachlorocyclopentadiene	U	541	ug/kg	108	541 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	541	ug/kg	108	541
95-95-4	2,4,5-Trichlorophenol	U	541	ug/kg	108	541
91-58-7	2-Chloronaphthalene	U	54.1	ug/kg	17.8	54.1
88-74-4	2-Nitroaniline	U	541	ug/kg	108	541
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	541	ug/kg	108	541 UJ,SV7c

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330003	Date Received: 02/05/2010 09:00	%Moisture: 38.4
Client ID: RE15-10-8305	Client: LANL010	Project: LANL01004
Batch ID: 950447	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/16/2010 20:06	Inst: MSD6.I	Dilution: 1
Prep Date: 02/09/2010 11:07	Analyst: NAG1	Inj. Vol: .5 uL
Data File: s6b1621.d	Aliquot: 30.01 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	U	541	ug/kg	108	541
606-20-2	Dimethylphthalate	U	541	ug/kg	54.1	541
208-96-8	2,6-Dinitrotoluene	U	54.1	ug/kg	16.2	54.1
51-28-5	Acenaphthylene	U	1080	ug/kg	205	1080
132-64-9	2,4-Dinitrophenol	U	541	ug/kg	108	541
84-66-2	Dibenzofuran	U	541	ug/kg	108	541
86-73-7	Diethylphthalate	U	54.1	ug/kg	16.2	54.1
7005-72-3	Fluorene	U	541	ug/kg	108	541
534-52-1	4-Chlorophenylphenylether	U	541	ug/kg	108	541
100-01-6	2-Methyl-4,6-dinitrophenol	U	541	ug/kg	108	541
100-01-6	4-Nitroaniline	U	541	ug/kg	162	541
	<i>p</i> -Nitroaniline					UJ,SV7c
122-39-4	Diphenylamine	U	541	ug/kg	108	541
122-66-7	Azobenzene	U	541	ug/kg	108	541
101-55-3	<i>1,2</i> -Diphenylhydrazine	U	541	ug/kg	108	541
118-74-1	4-Bromophenylphenylether	U	541	ug/kg	108	541
85-01-8	Hexachlorobenzene	U	54.1	ug/kg	16.2	54.1
120-12-7	Phenanthrene	U	54.1	ug/kg	10.8	54.1
84-74-2	Anthracene	U	541	ug/kg	108	541
206-44-0	Di-n-butylphthalate	U	54.1	ug/kg	16.2	54.1
85-68-7	Fluoranthene	U	541	ug/kg	108	541
56-55-3	Butylbenzylphthalate	U	54.1	ug/kg	16.2	54.1
91-94-1	Benzo(a)anthracene	U	541	ug/kg	162	541
218-01-9	3,3'-Dichlorobenzidine	U	54.1	ug/kg	16.2	54.1
117-81-7	Chrysene	U	541	ug/kg	108	541
117-84-0	bis(2-Ethylhexyl)phthalate	U	541	ug/kg	108	541
205-99-2	Di-n-octylphthalate	U	54.1	ug/kg	16.2	54.1
207-08-9	Benzo(b)fluoranthene	U	54.1	ug/kg	16.2	54.1
50-32-8	Benzo(k)fluoranthene	U	54.1	ug/kg	16.2	54.1
193-39-5	Benzo(a)pyrene	U	54.1	ug/kg	16.2	54.1
53-70-3	Indeno(1,2,3-cd)pyrene	U	54.1	ug/kg	16.2	54.1
191-24-2	Dibenzo(a,h)anthracene	U	54.1	ug/kg	16.2	54.1
120-82-1	Benzo(ghi)perylene	U	541	ug/kg	108	541
	1,2,4-Trichlorobenzene	U	541	ug/kg		

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	297	ug/kg		JA
	Unknown	11.2	278	ug/kg		J

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330003	Date Received: 02/05/2010 09:00	%Moisture: 38.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8305	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.I	Dilution: 1
Run Date: 02/16/2010 20:06	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Aliquot: 30.01 g	Final Volume: 1 mL
Data File: s6b1621.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
514-95-4	1,5,5-Trimethyl-6-methylene-cyclohexene	11.41	270	ug/kg	87	NJ
506-30-9	Eicosanoic acid	11.59	402	ug/kg	95	NJ
1235-74-1	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	11.63	313	ug/kg	95	NJ
	Unknown	11.97	784	ug/kg		J
1740-19-8	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	12.09	1560	ug/kg	94	NJ
	Unknown	13.16	946	ug/kg		J
	Unknown	13.2	409	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	13.51	498	ug/kg	94	NJ
	Unknown	15.46	263	ug/kg		J

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

SDG Number: 10-1567

Lab Sample ID: 246330004

Date Collected: 02/01/2010 12:00

Date Received: 02/05/2010 09:00

Matrix: R

%Moisture: 21.2

Client ID: RE15-10-8306

Batch ID: 950447

Run Date: 02/16/2010 20:33

Prep Date: 02/09/2010 11:07

Data File: s6b1622.d

Client: LANL010

Method: SW846 8270C

Inst: MSD6.I

Analyst: NAG1

Aliquot: 30.03 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	423	ug/kg	84.6	423
108-95-2	Phenol	U	423	ug/kg	84.6	423
95-57-8	2-Chlorophenol	U	423	ug/kg	84.6	423
106-46-7	1,4-Dichlorobenzene	U	423	ug/kg	84.6	423
621-64-7	N-Nitrosodipropylamine	U	423	ug/kg	84.6	423
59-50-7	4-Chloro-3-methylphenol	U	423	ug/kg	84.6	423
83-32-9	Acenaphthene	U	42.3	ug/kg	14.0	42.3
121-14-2	2,4-Dinitrotoluene	U	423	ug/kg	42.3	423
100-02-7	4-Nitrophenol	U	423	ug/kg	140	423 UJ,SV7c
87-86-5	Pentachlorophenol	U	423	ug/kg	106	423
129-00-0	Pyrene	U	42.3	ug/kg	12.7	42.3
110-86-1	Pyridine	U	423	ug/kg	84.6	423 UJ,SV7c
62-53-3	Aniline	U	423	ug/kg	127	423
111-44-4	bis(2-Chloroethyl) ether	U	423	ug/kg	84.6	423
541-73-1	1,3-Dichlorobenzene	U	423	ug/kg	84.6	423
100-51-6	Benzyl alcohol	U	423	ug/kg	127	423 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	423	ug/kg	84.6	423
108-60-1	bis(2-Chloroisopropyl)ether	U	423	ug/kg	84.6	423
95-48-7	o-Cresol	U	423	ug/kg	84.6	423
65794-96-9	m,p-Cresols	U	423	ug/kg	127	423
67-72-1	Hexachloroethane	U	423	ug/kg	84.6	423
98-95-3	Nitrobenzene	U	423	ug/kg	84.6	423
78-59-1	Isophorone	U	423	ug/kg	84.6	423
88-75-5	2-Nitrophenol	U	423	ug/kg	84.6	423
105-67-9	2,4-Dimethylphenol	U	423	ug/kg	148	423
111-91-1	bis(2-Chloroethoxy)methane	U	423	ug/kg	84.6	423
120-83-2	2,4-Dichlorophenol	U	423	ug/kg	84.6	423
65-85-0	Benzoic acid	U	846	ug/kg	211	846
91-20-3	Naphthalene	U	42.3	ug/kg	12.7	42.3
106-47-8	4-Chloroaniline	U	423	ug/kg	84.6	423
87-68-3	Hexachlorobutadiene	U	423	ug/kg	84.6	423
91-57-6	2-Methylnaphthalene	U	42.3	ug/kg	8.46	42.3
77-47-4	Hexachlorocyclopentadiene	U	423	ug/kg	84.6	423 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	423	ug/kg	84.6	423
95-95-4	2,4,5-Trichlorophenol	U	423	ug/kg	84.6	423
91-58-7	2-Chloronaphthalene	U	42.3	ug/kg	14.0	42.3
88-74-4	2-Nitroaniline	U	423	ug/kg	84.6	423
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	423	ug/kg	84.6	423 UJ,SV7c

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
Lab Sample ID: 246330004

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.03 g
Column: J&W DB-SMS

Matrix: R
%Moisture: 21.2
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					
606-20-2	Dimethylphthalate	U	423	ug/kg	84.6	423
208-96-8	2,6-Dinitrotoluene	U	423	ug/kg	42.3	423
51-28-5	Acenaphthylene	U	42.3	ug/kg	12.7	42.3
132-64-9	2,4-Dinitrophenol	U	846	ug/kg	161	846
84-66-2	Dibenzofuran	U	423	ug/kg	84.6	423
86-73-7	Diethylphthalate	U	423	ug/kg	84.6	423
7005-72-3	Fluorene	U	42.3	ug/kg	12.7	42.3
534-52-1	4-Chlorophenylphenylether	U	423	ug/kg	84.6	423
100-01-6	2-Methyl-4,6-dinitrophenol	U	423	ug/kg	84.6	423
100-01-6	4-Nitroaniline	U	423	ug/kg	127	423
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	423	ug/kg	84.6	423
122-66-7	Azobenzene	U	423	ug/kg	84.6	423
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	423	ug/kg	84.6	423
118-74-1	Hexachlorobenzene	U	423	ug/kg	84.6	423
85-01-8	Phenanthrene	U	42.3	ug/kg	12.7	42.3
120-12-7	Anthracene	U	42.3	ug/kg	8.46	42.3
84-74-2	Di-n-butylphthalate	U	423	ug/kg	84.6	423
206-44-0	Fluoranthene	U	42.3	ug/kg	12.7	42.3
85-68-7	Butylbenzylphthalate	U	423	ug/kg	84.6	423
56-55-3	Benzo(a)anthracene	U	42.3	ug/kg	12.7	42.3
91-94-1	3,3'-Dichlorobenzidine	U	423	ug/kg	127	423
218-01-9	Chrysene	U	42.3	ug/kg	12.7	42.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	423	ug/kg	84.6	423
117-84-0	Di-n-octylphthalate	U	423	ug/kg	84.6	423
205-99-2	Benzo(b)fluoranthene	U	42.3	ug/kg	12.7	42.3
207-08-9	Benzo(k)fluoranthene	U	42.3	ug/kg	12.7	42.3
50-32-8	Benzo(a)pyrene	U	42.3	ug/kg	12.7	42.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	42.3	ug/kg	12.7	42.3
53-70-3	Dibenzo(a,h)anthracene	U	42.3	ug/kg	12.7	42.3
191-24-2	Benzo(ghi)perylene	U	42.3	ug/kg	12.7	42.3
120-82-1	1,2,4-Trichlorobenzene	U	423	ug/kg	84.6	423

UJ,SV7c

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	312	ug/kg		JA
	Unknown	8.99	585	ug/kg		J

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

SDG Number: 10-1567
Lab Sample ID: 246330004

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Allquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 21.2
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
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Tentatively Identified Compound Summary			Estimated			
CAS No.	Tentatively Identified Compound (TIC)	RT		Units	Fit	Qual
57-10-3	n-Hexadecanoic acid	9.94	183	ug/kg	98	NJ
	Unknown	11.54	169	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	11.62	264	ug/kg	97	NJ
1235-74-1	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	11.64	241	ug/kg	95	NJ
	Unknown	11.69	241	ug/kg		J
1740-19-8	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	12.08	505	ug/kg	94	NJ
112-84-5	13-Docosenamide, (Z)-	13.51	1140	ug/kg	91	NJ
	Unknown	16.68	956	ug/kg		J
	Unknown	17.04	240	ug/kg		J
	Unknown	17.55	313	ug/kg		J
	Unknown	18.19	196	ug/kg		J

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

SDG Number: 10-1567
Lab Sample ID: 246330005

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 14.4
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	390	ug/kg	77.9	390	
108-95-2	Phenol	U	390	ug/kg	77.9	390	
95-57-8	2-Chlorophenol	U	390	ug/kg	77.9	390	
106-46-7	1,4-Dichlorobenzene	U	390	ug/kg	77.9	390	
621-64-7	N-Nitrosodipropylamine	U	390	ug/kg	77.9	390	
59-50-7	4-Chloro-3-methylphenol	U	390	ug/kg	77.9	390	
83-32-9	Acenaphthene	U	39.0	ug/kg	12.9	39.0	
121-14-2	2,4-Dinitrotoluene	U	390	ug/kg	39.0	390	
100-02-7	4-Nitrophenol	U	390	ug/kg	129	390	UJ,SV7c
87-86-5	Pentachlorophenol	U	390	ug/kg	97.4	390	
129-00-0	Pyrene	U	39.0	ug/kg	11.7	39.0	
110-86-1	Pyridine	U	390	ug/kg	77.9	390	UJ,SV7c
62-53-3	Aniline	U	390	ug/kg	117	390	
111-44-4	bis(2-Chloroethyl) ether	U	390	ug/kg	77.9	390	
541-73-1	1,3-Dichlorobenzene	U	390	ug/kg	77.9	390	
100-51-6	Benzyl alcohol	U	390	ug/kg	117	390	UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	390	ug/kg	77.9	390	
108-60-1	bis(2-Chloroisopropyl)ether	U	390	ug/kg	77.9	390	
95-48-7	o-Cresol	U	390	ug/kg	77.9	390	
65794-96-9	m,p-Cresols	U	390	ug/kg	117	390	
67-72-1	Hexachloroethane	U	390	ug/kg	77.9	390	
98-95-3	Nitrobenzene	U	390	ug/kg	77.9	390	
78-59-1	Isophorone	U	390	ug/kg	77.9	390	
88-75-5	2-Nitrophenol	U	390	ug/kg	77.9	390	
105-67-9	2,4-Dimethylphenol	U	390	ug/kg	136	390	
111-91-1	bis(2-Chloroethoxy)methane	U	390	ug/kg	77.9	390	
120-83-2	2,4-Dichlorophenol	U	390	ug/kg	77.9	390	
65-85-0	Benzoic acid	U	779	ug/kg	195	779	
91-20-3	Naphthalene	U	39.0	ug/kg	11.7	39.0	
106-47-8	4-Chloroaniline	U	390	ug/kg	77.9	390	
87-68-3	Hexachlorobutadiene	U	390	ug/kg	77.9	390	
91-57-6	2-Methylnaphthalene	U	39.0	ug/kg	7.79	39.0	
77-47-4	Hexachlorocyclopentadiene	U	390	ug/kg	77.9	390	UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	390	ug/kg	77.9	390	
95-95-4	2,4,5-Trichlorophenol	U	390	ug/kg	77.9	390	
91-58-7	2-Chloronaphthalene	U	39.0	ug/kg	12.9	39.0	
88-74-4	2-Nitroaniline	U	390	ug/kg	77.9	390	
	<i>o</i> -Nitroaniline						
99-09-2	3-Nitroaniline	U	390	ug/kg	77.9	390	UJ,SV7c

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330005	Date Received: 02/05/2010 09:00	%Moisture: 14.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8307	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.I	Dilution: 1
Run Date: 02/16/2010 21:01	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Aliquot: 30 g	Final Volume: 1 mL
Data File: s6b1623.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	390	ug/kg	77.9	390
606-20-2	2,6-Dinitrotoluene	U	390	ug/kg	39.0	390
208-96-8	Acenaphthylene	U	39.0	ug/kg	11.7	39.0
51-28-5	2,4-Dinitrophenol	U	779	ug/kg	148	779
132-64-9	Dibenzofuran	U	390	ug/kg	77.9	390
84-66-2	Diethylphthalate	U	390	ug/kg	77.9	390
86-73-7	Fluorene	U	39.0	ug/kg	11.7	39.0
7005-72-3	4-Chlorophenylphenylether	U	390	ug/kg	77.9	390
534-52-1	2-Methyl-4,6-dinitrophenol	U	390	ug/kg	77.9	390
100-01-6	4-Nitroaniline	U	390	ug/kg	117	390
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	390	ug/kg	77.9	390
122-66-7	Azobenzene	U	390	ug/kg	77.9	390
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	390	ug/kg	77.9	390
118-74-1	Hexachlorobenzene	U	390	ug/kg	77.9	390
85-01-8	Phenanthrene	U	39.0	ug/kg	11.7	39.0
120-12-7	Anthracene	U	39.0	ug/kg	7.79	39.0
84-74-2	Di-n-butylphthalate	U	390	ug/kg	77.9	390
206-44-0	Fluoranthene	U	39.0	ug/kg	11.7	39.0
85-68-7	Butylbenzylphthalate	U	390	ug/kg	77.9	390
56-55-3	Benzo(a)anthracene	U	39.0	ug/kg	11.7	39.0
91-94-1	3,3'-Dichlorobenzidine	U	390	ug/kg	117	390
218-01-9	Chrysene	U	39.0	ug/kg	11.7	39.0
117-81-7	bis(2-Ethylhexyl)phthalate	U	390	ug/kg	77.9	390
117-84-0	Di-n-octylphthalate	U	390	ug/kg	77.9	390
205-99-2	Benzo(b)fluoranthene	U	39.0	ug/kg	11.7	39.0
207-08-9	Benzo(k)fluoranthene	U	39.0	ug/kg	11.7	39.0
50-32-8	Benzo(a)pyrene	U	39.0	ug/kg	11.7	39.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	39.0	ug/kg	11.7	39.0
53-70-3	Dibenzo(a,h)anthracene	U	39.0	ug/kg	11.7	39.0
191-24-2	Benzo(ghi)perylene	U	39.0	ug/kg	11.7	39.0
120-82-1	1,2,4-Trichlorobenzene	U	390	ug/kg	77.9	390

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	272	ug/kg		JA
1135-24-6	2-Propenoic acid, 3-(4-hydroxy-3-methoxy	9.6	355	ug/kg	97	NJ

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

SDG Number: 10-1567
Lab Sample ID: 246330005

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 14.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8307
Batch ID: 950447
Run Date: 02/16/2010 21:01
Prep Date: 02/09/2010 11:07
Data File: s6b1623.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
57-10-3	n-Hexadecanoic acid	9.94	170	ug/kg	97	NJ
	Unknown	11.52	354	ug/kg		J
	Unknown	11.54	243	ug/kg		J
506-12-7	Heptadecanoic acid	11.58	199	ug/kg	96	NJ
301-02-0	9-Octadecenamide, (Z)-	11.62	332	ug/kg	93	NJ
	Unknown	11.69	283	ug/kg		J
	Unknown	11.92	205	ug/kg		J
5155-70-4	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	12.09	983	ug/kg	94	NJ
112-85-6	Docosanoic acid	12.42	436	ug/kg	97	NJ
557-59-5	Tetracosanoic acid	13.41	320	ug/kg	91	NJ
112-84-5	13-Docosenamide, (Z)-	13.52	913	ug/kg	97	NJ
	Unknown	15.46	211	ug/kg		J
	Unknown	15.68	1760	ug/kg		J
	Unknown	15.95	242	ug/kg		J
	Unknown	15.95	251	ug/kg		J
	Unknown	16.44	3280	ug/kg		J
	Unknown	16.68	944	ug/kg		J
83-46-5	.beta.-Sitosterol	17.55	242	ug/kg	84	NJ
	Unknown	18.19	262	ug/kg		J

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

SDG Number: 10-1567
Lab Sample ID: 246330007

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.02 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 27.6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8308
Batch ID: 950447
Run Date: 02/16/2010 21:57
Prep Date: 02/09/2010 11:07
Data File: s6b1625.d

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	
62-75-9	N-Methyl-N-nitrosomethylamine	U	460	ug/kg	92.0	460	
108-95-2	Phenol	U	460	ug/kg	92.0	460	
95-57-8	2-Chlorophenol	U	460	ug/kg	92.0	460	
106-46-7	1,4-Dichlorobenzene	U	460	ug/kg	92.0	460	
621-64-7	N-Nitrosodipropylamine	U	460	ug/kg	92.0	460	
59-50-7	4-Chloro-3-methylphenol	U	460	ug/kg	92.0	460	
83-32-9	Acenaphthene	U	46.0	ug/kg	15.2	46.0	
121-14-2	2,4-Dinitrotoluene	U	460	ug/kg	46.0	460	
100-02-7	4-Nitrophenol	U	460	ug/kg	152	460	UJ,SV7c
87-86-5	Pentachlorophenol	U	460	ug/kg	115	460	
129-00-0	Pyrene	U	46.0	ug/kg	13.8	46.0	
110-86-1	Pyridine	U	460	ug/kg	92.0	460	UJ,SV7c
62-53-3	Aniline	U	460	ug/kg	138	460	
111-44-4	bis(2-Chloroethyl) ether	U	460	ug/kg	92.0	460	
541-73-1	1,3-Dichlorobenzene	U	460	ug/kg	92.0	460	
100-51-6	Benzyl alcohol	U	460	ug/kg	138	460	UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	460	ug/kg	92.0	460	
108-60-1	bis(2-Chloroisopropyl) ether	U	460	ug/kg	92.0	460	
95-48-7	o-Cresol	U	460	ug/kg	92.0	460	
65794-96-9	m,p-Cresols	U	460	ug/kg	138	460	
67-72-1	Hexachloroethane	U	460	ug/kg	92.0	460	
98-95-3	Nitrobenzene	U	460	ug/kg	92.0	460	
78-59-1	Isophorone	U	460	ug/kg	92.0	460	
88-75-5	2-Nitrophenol	U	460	ug/kg	92.0	460	
105-67-9	2,4-Dimethylphenol	U	460	ug/kg	161	460	
111-91-1	bis(2-Chloroethoxy)methane	U	460	ug/kg	92.0	460	
120-83-2	2,4-Dichlorophenol	U	460	ug/kg	92.0	460	
65-85-0	Benzoic acid	U	920	ug/kg	230	920	
91-20-3	Naphthalene	U	46.0	ug/kg	13.8	46.0	
106-47-8	4-Chloroaniline	U	460	ug/kg	92.0	460	
87-68-3	Hexachlorobutadiene	U	460	ug/kg	92.0	460	
91-57-6	2-Methylnaphthalene	U	46.0	ug/kg	9.20	46.0	
77-47-4	Hexachlorocyclopentadiene	U	460	ug/kg	92.0	460	UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	460	ug/kg	92.0	460	
95-95-4	2,4,5-Trichlorophenol	U	460	ug/kg	92.0	460	
91-58-7	2-Chloronaphthalene	U	46.0	ug/kg	15.2	46.0	
88-74-4	2-Nitroaniline	U	460	ug/kg	92.0	460	
	<i>o</i> -Nitroaniline						
99-09-2	3-Nitroaniline	U	460	ug/kg	92.0	460	UJ,SV7c

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

SDG Number: 10-1567
Lab Sample ID: 246330007

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.02 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 27.6
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	460	ug/kg	92.0	460
606-20-2	2,6-Dinitrotoluene	U	460	ug/kg	46.0	460
208-96-8	Acenaphthylene	U	46.0	ug/kg	13.8	46.0
51-28-5	2,4-Dinitrophenol	U	920	ug/kg	175	920
132-64-9	Dibenzofuran	U	460	ug/kg	92.0	460
84-66-2	Diethylphthalate	U	460	ug/kg	92.0	460
86-73-7	Fluorene	U	46.0	ug/kg	13.8	46.0
7005-72-3	4-Chlorophenylphenylether	U	460	ug/kg	92.0	460
534-52-1	2-Methyl-4,6-dinitrophenol	U	460	ug/kg	92.0	460
100-01-6	4-Nitroaniline	U	460	ug/kg	138	460 UJ,SV7c
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	460	ug/kg	92.0	460
122-66-7	Azobenzene	U	460	ug/kg	92.0	460
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	460	ug/kg	92.0	460
118-74-1	Hexachlorobenzene	U	460	ug/kg	92.0	460
85-01-8	Phenanthrene	U	46.0	ug/kg	13.8	46.0
120-12-7	Anthracene	U	46.0	ug/kg	9.20	46.0
84-74-2	Di-n-butylphthalate	U	460	ug/kg	92.0	460
206-44-0	Fluoranthene	U	46.0	ug/kg	13.8	46.0
85-68-7	Butylbenzylphthalate	U	460	ug/kg	92.0	460
56-55-3	Benzo(a)anthracene	U	46.0	ug/kg	13.8	46.0
91-94-1	3,3'-Dichlorobenzidine	U	460	ug/kg	138	460
218-01-9	Chrysene	U	46.0	ug/kg	13.8	46.0
117-81-7	bis(2-Ethylhexyl)phthalate	U	460	ug/kg	92.0	460
117-84-0	Di-n-octylphthalate	U	460	ug/kg	92.0	460
205-99-2	Benzo(b)fluoranthene	U	46.0	ug/kg	13.8	46.0
207-08-9	Benzo(k)fluoranthene	U	46.0	ug/kg	13.8	46.0
50-32-8	Benzo(a)pyrene	U	46.0	ug/kg	13.8	46.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	46.0	ug/kg	13.8	46.0
53-70-3	Dibenzo(a,h)anthracene	U	46.0	ug/kg	13.8	46.0
191-24-2	Benzo(ghi)perylene	U	46.0	ug/kg	13.8	46.0
120-82-1	1,2,4-Trichlorobenzene	U	460	ug/kg	92.0	460

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown Aldol Condensate	3.27	290	ug/kg		JA
301-02-0	9-Octadecenamide, (Z)-	11.61	347	ug/kg	95	NJ

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

SDG Number: 10-1567

Lab Sample ID: 246330007

Client ID: RE15-10-8308

Batch ID: 950447

Run Date: 02/16/2010 21:57

Prep Date: 02/09/2010 11:07

Data File: s6b1625.d

Date Collected: 02/01/2010 12:00

Date Received: 02/05/2010 09:00

Client: LANL010

Method: SW846 8270C

Inst: MSD6.I

Analyst: NAG1

Aliquot: 30.02 g

Column: J&W DB-5MS

Matrix: R

%Moisture: 27.6

Project: LANL01004

SOP Ref: GL-OA-E-009

Dilution: 1

Inj. Vol: .5 uL

Final Volume: 1 mL

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
112-84-5	13-Docosenamide, (Z)-	13.5	1200	ug/kg	93	NJ
112-95-8	Eicosane	14.1	290	ug/kg	91	NJ

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

SDG Number: 10-1567
Lab Sample ID: 246330006

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Allquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 10.6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8309
Batch ID: 950447
Run Date: 02/16/2010 21:28
Prep Date: 02/09/2010 11:07
Data File: s6b1624.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	
62-75-9	N-Methyl-N-nitrosomethylamine	U	373	ug/kg	74.5	373	
108-95-2	Phenol	U	373	ug/kg	74.5	373	
95-57-8	2-Chlorophenol	U	373	ug/kg	74.5	373	
106-46-7	1,4-Dichlorobenzene	U	373	ug/kg	74.5	373	
621-64-7	N-Nitrosodipropylamine	U	373	ug/kg	74.5	373	
59-50-7	4-Chloro-3-methylphenol	U	373	ug/kg	74.5	373	
83-32-9	Acenaphthene	U	37.3	ug/kg	12.3	37.3	
121-14-2	2,4-Dinitrotoluene	U	373	ug/kg	37.3	373	
100-02-7	4-Nitrophenol	U	373	ug/kg	123	373	UJ,SV7c
87-86-5	Pentachlorophenol	U	373	ug/kg	93.2	373	
129-00-0	Pyrene	U	37.3	ug/kg	11.2	37.3	
110-86-1	Pyridine	U	373	ug/kg	74.5	373	UJ,SV7c
62-53-3	Aniline	U	373	ug/kg	112	373	
111-44-4	bis(2-Chloroethyl) ether	U	373	ug/kg	74.5	373	
541-73-1	1,3-Dichlorobenzene	U	373	ug/kg	74.5	373	
100-51-6	Benzyl alcohol	U	373	ug/kg	112	373	UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	373	ug/kg	74.5	373	
108-60-1	bis(2-Chloroisopropyl) ether	U	373	ug/kg	74.5	373	
95-48-7	o-Cresol	U	373	ug/kg	74.5	373	
65794-96-9	m,p-Cresols	U	373	ug/kg	112	373	
67-72-1	Hexachloroethane	U	373	ug/kg	74.5	373	
98-95-3	Nitrobenzene	U	373	ug/kg	74.5	373	
78-59-1	Isophorone	U	373	ug/kg	74.5	373	
88-75-5	2-Nitrophenol	U	373	ug/kg	74.5	373	
105-67-9	2,4-Dimethylphenol	U	373	ug/kg	130	373	
111-91-1	bis(2-Chloroethoxy)methane	U	373	ug/kg	74.5	373	
120-83-2	2,4-Dichlorophenol	U	373	ug/kg	74.5	373	
65-85-0	Benzoic acid	U	745	ug/kg	186	745	
91-20-3	Naphthalene	U	37.3	ug/kg	11.2	37.3	
106-47-8	4-Chloroaniline	U	373	ug/kg	74.5	373	
87-68-3	Hexachlorobutadiene	U	373	ug/kg	74.5	373	
91-57-6	2-Methylnaphthalene	U	37.3	ug/kg	7.45	37.3	
77-47-4	Hexachlorocyclopentadiene	U	373	ug/kg	74.5	373	UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	373	ug/kg	74.5	373	
95-95-4	2,4,5-Trichlorophenol	U	373	ug/kg	74.5	373	
91-58-7	2-Chloronaphthalene	U	37.3	ug/kg	12.3	37.3	
88-74-4	2-Nitroaniline	U	373	ug/kg	74.5	373	
	<i>o</i> -Nitroaniline						
99-09-2	3-Nitroaniline	U	373	ug/kg	74.5	373	UJ,SV7c

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330006	Date Received: 02/05/2010 09:00	%Moisture: 10.6
Client ID: RE15-10-8309	Client: LANL010	Project: LANL01004
Batch ID: 950447	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/16/2010 21:28	Inst: MSD6.I	Dilution: 1
Prep Date: 02/09/2010 11:07	Analyst: NAG1	Inj. Vol: .5 uL
Data File: s6b1624.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					
606-20-2	Dimethylphthalate	U	373	ug/kg	74.5	373
208-96-8	2,6-Dinitrotoluene	U	373	ug/kg	37.3	373
51-28-5	Acenaphthylene	U	37.3	ug/kg	11.2	37.3
132-64-9	2,4-Dinitrophenol	U	745	ug/kg	142	745
84-66-2	Dibenzofuran	U	373	ug/kg	74.5	373
86-73-7	Diethylphthalate	U	373	ug/kg	74.5	373
7005-72-3	Fluorene	U	37.3	ug/kg	11.2	37.3
534-52-1	4-Chlorophenylphenylether	U	373	ug/kg	74.5	373
100-01-6	2-Methyl-4,6-dinitrophenol	U	373	ug/kg	74.5	373
100-01-6	4-Nitroaniline	U	373	ug/kg	112	373
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	373	ug/kg	74.5	373
122-66-7	Azobenzene	U	373	ug/kg	74.5	373
101-55-3	<i>1,2</i> -Diphenylhydrazine					
118-74-1	4-Bromophenylphenylether	U	373	ug/kg	74.5	373
85-01-8	Hexachlorobenzene	U	373	ug/kg	74.5	373
120-12-7	Phenanthrene	U	37.3	ug/kg	11.2	37.3
84-74-2	Anthracene	U	37.3	ug/kg	7.45	37.3
206-44-0	Di-n-butylphthalate	U	373	ug/kg	74.5	373
85-68-7	Fluoranthene	U	37.3	ug/kg	11.2	37.3
56-55-3	Butylbenzylphthalate	U	373	ug/kg	74.5	373
91-94-1	Benzo(a)anthracene	U	37.3	ug/kg	11.2	37.3
218-01-9	3,3'-Dichlorobenzidine	U	373	ug/kg	112	373
117-81-7	Chrysene	U	37.3	ug/kg	11.2	37.3
117-84-0	bis(2-Ethylhexyl)phthalate	U	373	ug/kg	74.5	373
205-99-2	Di-n-octylphthalate	U	373	ug/kg	74.5	373
207-08-9	Benzo(b)fluoranthene	U	37.3	ug/kg	11.2	37.3
50-32-8	Benzo(k)fluoranthene	U	37.3	ug/kg	11.2	37.3
193-39-5	Benzo(a)pyrene	U	37.3	ug/kg	11.2	37.3
53-70-3	Indeno(1,2,3-cd)pyrene	U	37.3	ug/kg	11.2	37.3
191-24-2	Dibenzo(a,h)anthracene	U	37.3	ug/kg	11.2	37.3
120-82-1	Benzo(ghi)perylene	U	37.3	ug/kg	11.2	37.3
	1,2,4-Trichlorobenzene	U	373	ug/kg	74.5	373

UJ,SV7c

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown Aldol Condensate	3.27	312	ug/kg		JA
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	11.56	282	ug/kg	93	NJ

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330006	Date Received: 02/05/2010 09:00	%Moisture: 10.6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8309	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.I	Dilution: 1
Run Date: 02/16/2010 21:28	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Allquot: 30.03 g	Final Volume: 1 mL
Data File: s6b1624.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	Flt	Qual
301-02-0	9-Octadecenamide, (Z)-	11.61	192	ug/kg	98	NJ
	Unknown	13.5	939	ug/kg		J
	Unknown	15.17	286	ug/kg		J
	Unknown	15.18	258	ug/kg		J
	Unknown	15.2	288	ug/kg		J
	Unknown	15.97	1490	ug/kg		J
	Unknown	16.67	168	ug/kg		J

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

SDG Number: 10-1567
Lab Sample ID: 246330010

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.01 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 20.9
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8324
Batch ID: 950447
Run Date: 02/16/2010 23:21
Prep Date: 02/09/2010 11:07
Data File: s6b1628.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	421	ug/kg	84.2	421
108-95-2	Phenol	U	421	ug/kg	84.2	421
95-57-8	2-Chlorophenol	U	421	ug/kg	84.2	421
106-46-7	1,4-Dichlorobenzene	U	421	ug/kg	84.2	421
621-64-7	N-Nitrosodipropylamine	U	421	ug/kg	84.2	421
59-50-7	4-Chloro-3-methylphenol	U	421	ug/kg	84.2	421
83-32-9	Acenaphthene	U	42.1	ug/kg	13.9	42.1
121-14-2	2,4-Dinitrotoluene	U	421	ug/kg	42.1	421
100-02-7	4-Nitrophenol	U	421	ug/kg	139	421 UJ,SV7c
87-86-5	Pentachlorophenol	U	421	ug/kg	105	421
129-00-0	Pyrene	U	42.1	ug/kg	12.6	42.1
110-86-1	Pyridine	U	421	ug/kg	84.2	421 UJ,SV7c
62-53-3	Aniline	U	421	ug/kg	126	421
111-44-4	bis(2-Chloroethyl) ether	U	421	ug/kg	84.2	421
541-73-1	1,3-Dichlorobenzene	U	421	ug/kg	84.2	421
100-51-6	Benzyl alcohol	U	421	ug/kg	126	421 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	421	ug/kg	84.2	421
108-60-1	bis(2-Chloroisopropyl)ether	U	421	ug/kg	84.2	421
95-48-7	o-Cresol	U	421	ug/kg	84.2	421
65794-96-9	m,p-Cresols	U	421	ug/kg	126	421
67-72-1	Hexachloroethane	U	421	ug/kg	84.2	421
98-95-3	Nitrobenzene	U	421	ug/kg	84.2	421
78-59-1	Isophorone	U	421	ug/kg	84.2	421
88-75-5	2-Nitrophenol	U	421	ug/kg	84.2	421
105-67-9	2,4-Dimethylphenol	U	421	ug/kg	147	421
111-91-1	bis(2-Chloroethoxy)methane	U	421	ug/kg	84.2	421
120-83-2	2,4-Dichlorophenol	U	421	ug/kg	84.2	421
65-85-0	Benzoic acid	U	842	ug/kg	211	842
91-20-3	Naphthalene	U	42.1	ug/kg	12.6	42.1
106-47-8	4-Chloroaniline	U	421	ug/kg	84.2	421
87-68-3	Hexachlorobutadiene	U	421	ug/kg	84.2	421
91-57-6	2-Methylnaphthalene	U	42.1	ug/kg	8.42	42.1
77-47-4	Hexachlorocyclopentadiene	U	421	ug/kg	84.2	421 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	421	ug/kg	84.2	421
95-95-4	2,4,5-Trichlorophenol	U	421	ug/kg	84.2	421
91-58-7	2-Chloronaphthalene	U	42.1	ug/kg	13.9	42.1
88-74-4	2-Nitroaniline	U	421	ug/kg	84.2	421
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	421	ug/kg	84.2	421 UJ,SV7c

Semi-Volatile
Certificate of Analysis
Sample Summary

Page 2 of 3

SDG Number: 10-1567
Lab Sample ID: 246330010

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Allquot: 30.01 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 20.9
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8324
Batch ID: 950447
Run Date: 02/16/2010 23:21
Prep Date: 02/09/2010 11:07
Data File: s6b1628.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	421	ug/kg	84.2	421
606-20-2	2,6-Dinitrotoluene	U	421	ug/kg	42.1	421
208-96-8	Acenaphthylene	U	42.1	ug/kg	12.6	42.1
51-28-5	2,4-Dinitrophenol	U	842	ug/kg	160	842
132-64-9	Dibenzofuran	U	421	ug/kg	84.2	421
84-66-2	Diethylphthalate	U	421	ug/kg	84.2	421
86-73-7	Fluorene	U	42.1	ug/kg	12.6	42.1
7005-72-3	4-Chlorophenylphenylether	U	421	ug/kg	84.2	421
534-52-1	2-Methyl-4,6-dinitrophenol	U	421	ug/kg	84.2	421
100-01-6	4-Nitroaniline	U	421	ug/kg	126	421 UJ,SV7c
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	421	ug/kg	84.2	421
122-66-7	Azobenzene	U	421	ug/kg	84.2	421
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	421	ug/kg	84.2	421
118-74-1	Hexachlorobenzene	U	421	ug/kg	84.2	421
85-01-8	Phenanthrene	U	42.1	ug/kg	12.6	42.1
120-12-7	Anthracene	U	42.1	ug/kg	8.42	42.1
84-74-2	Di-n-butylphthalate	U	421	ug/kg	84.2	421
206-44-0	Fluoranthene	U	42.1	ug/kg	12.6	42.1
85-68-7	Butylbenzylphthalate	U	421	ug/kg	84.2	421
56-55-3	Benzo(a)anthracene	U	42.1	ug/kg	12.6	42.1
91-94-1	3,3'-Dichlorobenzidine	U	421	ug/kg	126	421
218-01-9	Chrysene	U	42.1	ug/kg	12.6	42.1
117-81-7	bis(2-Ethylhexyl)phthalate	U	421	ug/kg	84.2	421
117-84-0	Di-n-octylphthalate	U	421	ug/kg	84.2	421
205-99-2	Benzo(b)fluoranthene	U	42.1	ug/kg	12.6	42.1
207-08-9	Benzo(k)fluoranthene	U	42.1	ug/kg	12.6	42.1
50-32-8	Benzo(a)pyrene	U	42.1	ug/kg	12.6	42.1
193-39-5	Indeno(1,2,3-cd)pyrene	U	42.1	ug/kg	12.6	42.1
53-70-3	Dibenzo(a,h)anthracene	U	42.1	ug/kg	12.6	42.1
191-24-2	Benzo(ghi)perylene	U	42.1	ug/kg	12.6	42.1
120-82-1	1,2,4-Trichlorobenzene	U	421	ug/kg	84.2	421

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	204	ug/kg		JA
	Unknown	10.22	179	ug/kg		J

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330010	Date Received: 02/05/2010 09:00	%Moisture: 20.9
Client ID: RE15-10-8324	Client: LANL010	Project: LANL01004
Batch ID: 950447	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/16/2010 23:21	Inst: MSD6.I	Dilution: 1
Prep Date: 02/09/2010 11:07	Analyst: NAG1	Inj. Vol: .5 uL
Data File: s6b1628.d	Aliquot: 30.01 g	Final Volume: 1 mL
	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
301-02-0	Unknown	10.73	324	ug/kg		J
	9-Octadecenamide, (Z)-	11.61	283	ug/kg	97	NJ
	Unknown	13.5	1090	ug/kg		J
	Unknown	16.42	195	ug/kg		J
	Unknown	16.68	988	ug/kg		J
	Unknown	17.04	231	ug/kg		J
	Unknown	17.55	346	ug/kg		J
	Unknown	18.19	177	ug/kg		J

DATA VALIDATION COVER SHEET

5122-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1567 VALIDATION DATE: 04/01/10 LAB CODE: GELCONTRACT LABORATORY NAME: GEL Laboratories LLCVALIDATOR: Lisa Burgess 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 checked="" type="checkbox"/> LCMSMS HIGH EXPLOSIVES | PESTICIDES/POLYCHLORINATED BIPHENYLS |
| <input type="checkbox"/> 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 CCV %D was >20% with positive bias for tetryl. The associated sample results were NDs and, thus, were not qualified. The CCV %Ds were >20% but ≤40% with negative bias for o-nitrotoluene and p-nitrotoluene. The associated sample results were NDs and, thus, were qualified UJ,HE7c.
2. 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 retention time criteria could not be evaluated. No sample data were qualified as a result.


Reviewed by: Mary DonovanLevel: IDate: 04/01/10VALIDATOR'S SIGNATURE: *Lisa Burgess*DATE: 04/01/10

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 type="checkbox"/>	<input checked="" 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	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
			calibration. Contact the SMO or external laboratory for information.		
<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	UJ, R, HE15	R, HE15

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
			Interference.)		
<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
<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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8304

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330002

Sample Amount 2

Moisture: 20.3

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312091.wiff

Date Analyzed: 13-MAR-10 23:36

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 UJ,HE7c	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,HE7c	500	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: RE15-10-8304

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330002

Sample Amount 2

Molsture: 20.3

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010091.wiff

Date Analyzed: 02-MAR-10 08:39

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: RE15-10-8305

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330003

Sample Amount 2

Moisture: 38.4

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312094.wiff

Date Analyzed: 14-MAR-10 00:55

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 UJ,HE7c	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,HE7c	500	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: RE15-10-8305

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330003

Sample Amount 2

Moisture: 38.4

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010094.wiff

Date Analyzed: 02-MAR-10 09:26

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: RE15-10-8306

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330004

Sample Amount 2

Moisture: 21.2

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312095.wiff

Date Analyzed: 14-MAR-10 01:21

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	UJ,HE7c 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,HE7c 500	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: RE15-10-8306

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330004

Sample Amount 2

Moisture: 21.2

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010095.wiff

Date Analyzed: 02-MAR-10 09:42

Units: µg/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: RE15-10-8307

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330005

Sample Amount 2

Moisture: 14.4

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312096.wiff

Date Analyzed: 14-MAR-10 01:48

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 UJ,HE7c	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,HE7c	500	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: RE15-10-8307

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330005

Sample Amount 2

Moisture: 14.4

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010096.wiff

Date Analyzed: 02-MAR-10 09:58

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: RE15-10-8309

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330006

Sample Amount 2

Moisture: 10.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312097.wiff

Date Analyzed: 14-MAR-10 03:14

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 UJ,HE7c	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,HE7c	500	U

*Concentration =

Instrument Value X Concentrated Extract Volume Sample Amount X Dilution Factor

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8309

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330006

Sample Amount 2

Moisture: 10.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010097.wiff

Date Analyzed: 02-MAR-10 10:14

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8308

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330007

Sample Amount 2

Moisture: 27.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312098.wiff

Date Analyzed: 14-MAR-10 03:41

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	UJ,HE7c 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,HE7c 500	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: RE15-10-8308

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330007

Sample Amount 2

Molsture: 27.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010098.wiff

Date Analyzed: 02-MAR-10 10:29

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: RE15-10-8301

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330008

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312102.wiff

Date Analyzed: 14-MAR-10 05:26

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 UJ,HE7c	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,HE7c	500	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: RE15-10-8301

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330008

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010099.wiff

Date Analyzed: 02-MAR-10 10:45

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: RE15-10-8300

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330009

Sample Amount 2

Moisture: 30.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312103.wiff

Date Analyzed: 14-MAR-10 05:53

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	UJ,HE7c 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,HE7c 500	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: RE15-10-8300

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330009

Sample Amount 2

Moisture: 30.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010103.wiff

Date Analyzed: 02-MAR-10 11:48

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: RE15-10-8324

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330010

Sample Amount 2

Moisture: 20.9

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312104.wiff

Date Analyzed: 14-MAR-10 06:19

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	UJ,HE7c 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,HE7c 500	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: RE15-10-8324

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330010

Sample Amount 2

Moisture: 20.9

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010104.wiff


Date Analyzed: 02-MAR-10 12:04

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

DATA VALIDATION COVER SHEET	
5116-1 <p style="text-align: center;">Data Validation Cover Sheet</p>	Records Use only 

Section I.

REQUEST NUMBER: 10-1567 VALIDATION DATE: 04/01/2010 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Lisa Burgess 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
<input type="checkbox"/> GENERAL CHEMISTRY	<input type="checkbox"/> RADIOCHEMISTRY	<input type="checkbox"/> LCMSMS HIGH EXPLOSIVES	PESTICIDES/POLYCHLORINATED BIPHENYLS
<input type="checkbox"/> OTHER (DESCRIBE): <u>PCBs</u>			

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. It should be noted that the MS/MSD was performed on a sample from another LANL RN and the parent sample raw data were not included in the data package. No sample data were qualified as a result.

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

VALIDATOR'S SIGNATURE: 

DATE: 04/01/2010

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 type="checkbox"/>	<input checked="" 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	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
			(4,4' DDT and Endrin).		
<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 checked="" type="checkbox"/>	<input 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

**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"/>	20. The surrogate is <10%R. Follow the external laboratory limits located within the associated data package.	R, P3	J-, P3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The surrogate is < the Lower Acceptance Level (LAL) but ≥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

**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 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
<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

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1567
Lab Sample ID: 246330009Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Allquot: 30.13 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 30.6
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	4.79	ug/kg	1.59	4.79	1
11104-28-2	Aroclor-1221	U	4.79	ug/kg	1.59	4.79	1
11141-16-5	Aroclor-1232	U	4.79	ug/kg	1.59	4.79	1
53469-21-9	Aroclor-1242	U	4.79	ug/kg	1.59	4.79	1
12672-29-6	Aroclor-1248	U	4.79	ug/kg	1.59	4.79	1
11097-69-1	Aroclor-1254	U	4.79	ug/kg	1.59	4.79	1
11096-82-5	Aroclor-1260	U	4.79	ug/kg	1.59	4.79	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
Lab Sample ID: 246330008

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Allquot: 30.03 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

CAS No.	Parname	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

Wednesday, February 03, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1567

LOS ALAMOS

REQUEST NUMBER: 10-1567

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/5/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

246330%

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8332	1	SEPTUM AMBER GLASS	8260B Trip Blank	Ice	S
RE15-10-8304	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8304	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8305	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8305	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8306	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8306	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8307	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8307	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8309	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8309	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8308	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8308	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8301	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8301	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8300	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8300	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8324	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8324	1	AMBER GLASS	8270C+NMED Exp	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

[Signature] 2/3/10 1400 Patricia Dover-Dent P. H. Dent 2/5/10 09:00

Printed Name Signature

Printed Name Signature

Printed Name Signature

Printed Name Signature

Printed Name Signature

Printed Name Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name Signature

Wednesday, February 03, 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: 2/3/2010

TURNAROUND/REPORT DUE: 3/5/2010

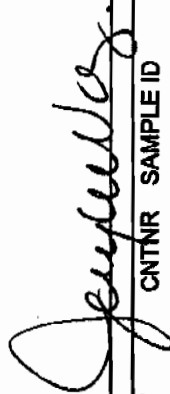
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



Page 1 of 2

REQUEST NUMBER: 10-1567

These Samples are on:

LANL Request Number: 10-1567

Per Agreement Number: 126310011

Project Cost Code: MR3A0529E00

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-8082	1	RE15-10-8300	R	2/1/2010	
		1	RE15-10-8301	R	2/1/2010	
	SW-846-8280B	1	RE15-10-8300	R	2/1/2010	
		1	RE15-10-8301	R	2/1/2010	
		1	RE15-10-8304	R	2/1/2010	
		1	RE15-10-8305	R	2/1/2010	
		1	RE15-10-8306	R	2/1/2010	
		1	RE15-10-8307	R	2/1/2010	
		1	RE15-10-8308	R	2/1/2010	

Wednesday, February 03, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8280B	1	RE15-10-8309	R	2/1/2010	
		1	RE15-10-8324	R	2/1/2010	
		1	RE15-10-8332	S	2/1/2010	
	SW-846:8270C	1	RE15-10-8300	R	2/1/2010	
		1	RE15-10-8301	R	2/1/2010	
		1	RE15-10-8304	R	2/1/2010	
		1	RE15-10-8305	R	2/1/2010	
		1	RE15-10-8306	R	2/1/2010	
		1	RE15-10-8307	R	2/1/2010	
		1	RE15-10-8308	R	2/1/2010	
		1	RE15-10-8309	R	2/1/2010	
		1	RE15-10-8324	R	2/1/2010	
	SW-846:8321A_MOD	1	RE15-10-8300	R	2/1/2010	
		1	RE15-10-8301	R	2/1/2010	
		1	RE15-10-8304	R	2/1/2010	
		1	RE15-10-8305	R	2/1/2010	
		1	RE15-10-8306	R	2/1/2010	
		1	RE15-10-8307	R	2/1/2010	
		1	RE15-10-8308	R	2/1/2010	
		1	RE15-10-8309	R	2/1/2010	
		1	RE15-10-8324	R	2/1/2010	

Final Page of REQUEST NUMBER 10-1567



February 10, 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: 246330
SDG: 10-1567

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 05, 2010, and analyzed for Explosives by LCMSMS, GC Semivolatile ~~GC Semivolatile and GC 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: 10-1567
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 246330
SDG: 10-1567

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Sample Data.....	1427
Standards Data.....	1438
Quality Control Data.....	1507
Miscellaneous Data.....	1520

Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 246330
SDG # : 10-1567**

February 10, 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 05, 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:

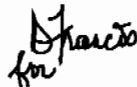
<u>Laboratory ID</u>	<u>Client ID</u>
246330001	RE15-10-8332
246330002	RE15-10-8304
246330003	RE15-10-8305
246330004	RE15-10-8306
246330005	RE15-10-8307
246330006	RE15-10-8309
246330007	RE15-10-8308
246330008	RE15-10-8301
246330009	RE15-10-8300
246330010	RE15-10-8324

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.



Valerie Davis
Project Manager

List of current GEL Certifications as of 10 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

Wednesday, February 03, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1567

LOS ALAMOS

REQUEST NUMBER: 10-1567

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/5/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

246330%

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8332	1	SEPTUM AMBER GLASS	8260B Trip Blank	Ice	S
RE15-10-8304	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8304	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8305	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8305	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8306	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8306	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8307	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8307	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8309	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8309	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8308	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8308	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE15-10-8301	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8301	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8300	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8300	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8324	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8324	1	AMBER GLASS	8270C+NMED Exp	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

Wednesday, February 03, 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: 2/3/2010

TURNAROUND/REPORT DUE: 3/5/2010


TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



Page 1 of 2

REQUEST NUMBER: 10-1567

These Samples are on:

LANL Request Number: 10-1567

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8300	R	2/1/2010	
		1	RE15-10-8301	R	2/1/2010	
	SW-846:8260B	1	RE15-10-8300	R	2/1/2010	
		1	RE15-10-8301	R	2/1/2010	
		1	RE15-10-8304	R	2/1/2010	
		1	RE15-10-8305	R	2/1/2010	
		1	RE15-10-8306	R	2/1/2010	
		1	RE15-10-8307	R	2/1/2010	
		1	RE15-10-8308	R	2/1/2010	

Wednesday, February 03, 2010

Page 2 of 2

REQUEST NUMBER: 10-1567

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8260B	1	RE15-10-8309	R	2/1/2010	
		1	RE15-10-8324	R	2/1/2010	
		1	RE15-10-8332	S	2/1/2010	
	SW-846:8270C	1	RE15-10-8300	R	2/1/2010	
		1	RE15-10-8301	R	2/1/2010	
		1	RE15-10-8304	R	2/1/2010	
		1	RE15-10-8305	R	2/1/2010	
		1	RE15-10-8306	R	2/1/2010	
		1	RE15-10-8307	R	2/1/2010	
		1	RE15-10-8308	R	2/1/2010	
		1	RE15-10-8309	R	2/1/2010	
		1	RE15-10-8324	R	2/1/2010	
	SW-846:8321A_MOD	1	RE15-10-8300	R	2/1/2010	
		1	RE15-10-8301	R	2/1/2010	
		1	RE15-10-8304	R	2/1/2010	
		1	RE15-10-8305	R	2/1/2010	
		1	RE15-10-8306	R	2/1/2010	
		1	RE15-10-8307	R	2/1/2010	
		1	RE15-10-8308	R	2/1/2010	
		1	RE15-10-8309	R	2/1/2010	
		1	RE15-10-8324	R	2/1/2010	

Final Page of REQUEST NUMBER 10-1567



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LANL			SDG/ARCO/Work Order: 10-1567		
Received By: Patricia Dover-Dent			Date Received: February 5, 2009		
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*: 80 CPM		
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 (describe) 3-6 9-14C
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: time written on containers, not on COC
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: FEDEX#S

7209 7849 9021 3C	7209 7849 8963 4C	7209 7849 8724 6C	7209 7849 8665 12C
7209 7849 9065 3C	7209 7849 8805 4C	7209 7849 9043 6C	7209 7849 8676 13C
7209 7849 9010 3C	7209 7849 8779 4C	7209 7849 8827 6C	7209 7849 9000 14C
7209 7849 8780 4C	7209 7849 8838 5C	7209 7849 9124 6C	
7209 7849 8735 4C	7209 7849 8816 5C	7209 7849 8941 9C	
7209 7849 8713 4C	7209 7849 8790 5C	7209 7849 8952 10C	
7209 7849 8746 4C	7209 7849 9054 6C	7209 7849 8687 11C	
7209 7849 8974 4C	7209 7849 8702 6C	7209 7849 8698 12C	

ORIGIN ID: SAFA (505) 655-9988
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 83
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTMGT: 52.8 LB MAN
CAD: 0014176/CAFE244
BILL SENDER

ORIGIN ID: SAFA (505) 655-9988
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 83
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTMGT: 52.8 LB MAN
CAD: 0014176/CAFE2449
BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 68010AFR1A015AGNKO

CHARLESTON SC 29407
(843) 556-8171
REF: 68010AFR3A0532VROO

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TRKN 7209 7849 9021
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TRKN 7209 7849 9065
FRI - 05FEB A1
PRIORITY OVERNIGHT

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ORIGIN ID: SAFA (505) 655-9988
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 83
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTMGT: 52.8 LB MAN
CAD: 0014176/CAFE2449
BILL SENDER

ORIGIN ID: SAFA (505) 655-9988
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 83
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTMGT: 52.8 LB MAN
CAD: 0014176/CAFE2449
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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

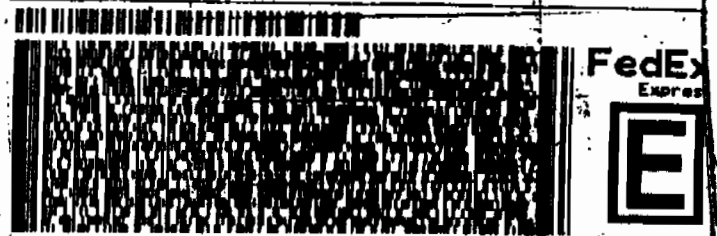
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GENERAL ENGINEERING LAB
2040 SAVAGE RD

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MatrN 7209 7849 8996 0201

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PRIORITY OVERNIGHT
MPSH 7209 7849 8780
MatrN 7209 7849 8779 0201

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SC-US
CHS

ALAMOS NATL LAB
0 BLDG 1237 DPU 03
ALAMOS, NM 87545
UNITED STATES US

ACTIVITY: 45.8 LB-MAN
CAD: 0014176/CAFE2449
BILL: GENDER

ORIGIN ID: SAFA (505) 666-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TR00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
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CAD: 0014176/CAFE2449
BILL: GENDER

ILERIE DAVIS
NERAL ENGINEERING LAB
40 SAVAGE RD

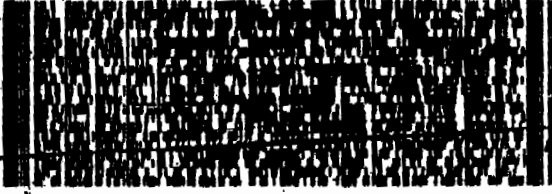
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7209 7849 8724 (0201)

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PRIORITY OVERNIGHT

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CHS



ALAMOS NATL LAB
0 BLDG 1237 DPU 03
ALAMOS, NM 87545
UNITED STATES US

ACTIVITY: 45.8 LB-MAN
SHIP DATE: 04FEB10
ACTIVITY: 45.8 LB-MAN
CAD: 0014176/CAFE2449
BILL: GENDER

ID: SAFA (505) 666-9968
JOYLENE VALDEZ
ALAMOS NATL LAB
BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTIVITY: 50.0 LB-MAN
CAD: 0014176/CAFE2449
BILL: GENDER

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GENERAL ENGINEERING LAB
2040 SAVAGE RD

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REF: 6B010ANR3A0520A00



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7209 7849 8963 (0201)

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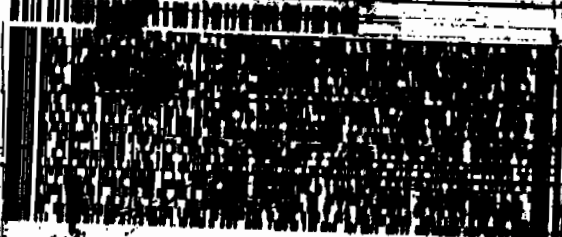
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SC-US
CHS

ORIGIN: SAFA (806) 666-9068
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 83
LOS ALAMOS NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTNCT: 67.9 LB MAN
CNO: 0014176/CAFE2449
BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 566-8171
REF: 68010AHR1A0150GK0



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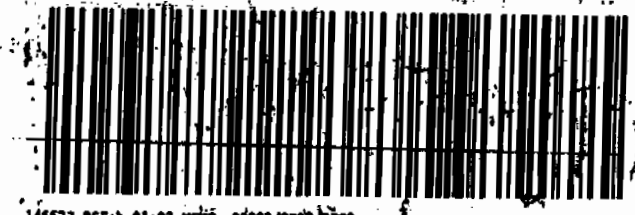
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UNITED STATES US
BILL SENDER

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GENERAL ENGINEERING LAB
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REF: 68010AHR1A0150GK0



1 of 2
RKH 7209 7849 8779
MASTER NM

FRI - 05FEB A1
PRIORITY OVERNIGHT

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CHS

ORIGIN: SAFA (806) 666-9068
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 83
LOS ALAMOS NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTNCT: 67.9 LB MAN
CNO: 0014176/CAFE2449
BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 566-8171
REF: 68010AHR1A0150GK0



2 of 2
TRKH 7209 7849 8805
MASTER NM

FRI - 05FEB A1
PRIORITY OVERNIGHT

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CHS



ORIGIN: SAFA (806) 666-9068
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 83
LOS ALAMOS NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTNCT: 67.9 LB MAN
CNO: 0014176/CAFE2449
BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 566-8171
REF: 68010AHR1A0150GK0



TRKH 7209 7849 8838

FRI - 05FEB A1
PRIORITY OVERNIGHT

XX CHSA

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

SHIP DATE: 04FEB10
ACTING: 50.0 LB MAN
CNO: 0014176/CAFE2449

BILL SENDER

LOS ALAMOS, NM 87545
UNITED STATES US

ERIE DAVIS
ERAL ENGINEERING LAB
0 SAVAGE RD

CHARLESTON SC 29407

(843) 566-8171

REF: 68010AMR1A015AGMCO

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1 of 2

7209 7849 8816

MASTER NH

FRI - 05FEB A1
PRIORITY OVERNIGHT

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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTING: 50.0 LB MAN
CNO: 0014176/CAFE2449

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GENERAL ENGINEERING LAB
2040 SAVAGE RD

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REF: 68010AMR3A0532VA00

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2 of 2

PSH 7209 7849 9054

Matr-N 7209 7849 9843 0201

FRI - 05FEB A1
PRIORITY OVERNIGHT

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Page 12 of 1540

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

LOS ALAMOS, NM 87545
UNITED STATES US

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

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REF: 68010AMR1A015AGMCO

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1 of 2

TRKH 7209 7849 8790

MASTER NH

FRI - 05FEB A1
PRIORITY OVERNIGHT

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTING: 50.0 LB MAN
CNO: 0014176/CAFE2449

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2040 SAVAGE RD

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REF: 68010AMR3A0520A00

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3 of 3

PSH 7209 7849 8702

Matr-N 7209 7849 8687 0201

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PRIORITY OVERNIGHT

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ORIGIN ID: SAFA (505) 555-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGG BLDG 1237 DPU 83
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTWT: 49.8 LB MAN
CAD: 0014176/CAFE2449
BILL SENDER

JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGG BLDG 1237 DPU 83
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTWT: 59.8 LB MAN
CAD: 0014176/CAFE2449
BILL SENDER

VALERIE DAVIS
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1 of 3
TRKH 7209 7849 8724
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29407

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1 of 2
TRKH 7209 7849 9043
NN MASTER NN

FRI - 05FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

ORIGIN ID: SAFA (505) 555-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGG BLDG 1237 DPU 83
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTWT: 68.0 LB MAN
CAD: 0014176/CAFE2449
BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR1A015AGWKO

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ORIGIN ID: SAFA (505) 555-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGG BLDG 1237 DPU 83
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTWT: 67.0 LB MAN
CAD: 0014176/CAFE2449
BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR1A015AGWKO

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2 of 2
PSH 7209 7849 8827
strn 7209 7849 8816 0201

FRI - 05FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

TRKH 7209 7849 9124
0201

FRI - 05FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

ACTWGT: 50.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTWGT: 61.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

9°
VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 566-8171
REF: 68010AMR3A0520A00

10°
VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

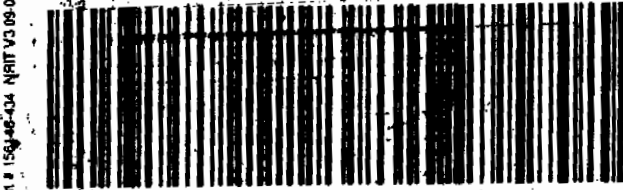
(843) 566-8171
REF: 68010AMR3A0520A00



1 of 2
TRKH 0201 7209 7849 8941
NN MASTER NN
FRI - 05FEB A1
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS



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NN MASTER NN
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PRIORITY OVERNIGHT

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29407
SC-US
CHS



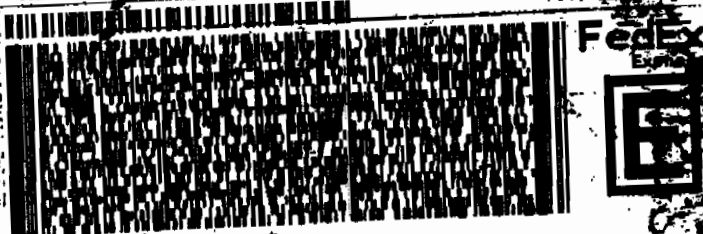
ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTWGT: 52.0 LB MAN
CAD: 0014176/CAFE2449
BILL SENDER

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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 566-8171
REF: 68010AMR3A0520A00



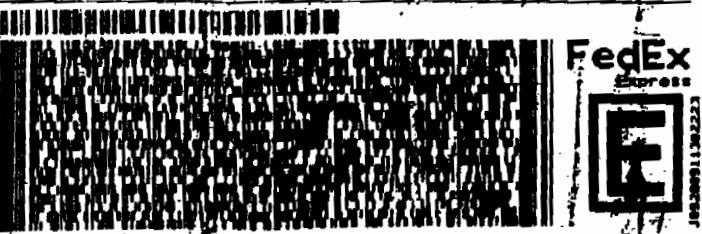
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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTWGT: 48.0 LB MAN
CAD: 0014176/CAFE2449
BILL SENDER

12°
VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 566-8171
REF: 68010AMR3A0520A00



1 of 3
TRKH 0201 7209 7849 8687
NN MASTER NN

FRI - 05FEB A1
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS

2 of 3
TRKH 0201 7209 7849 8698
NN MASTER NN

FRI - 05FEB A1
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS

JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGE BLDG 1237 DPU 83

CRD: 0014176/CAFE2449

BILL SENDER

LOS ALAMOS, NM 87545
UNITED STATES US

120
VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 566-8177

REF: 680106MR3A0520A00

FedEx
Express



1 of 2
TPSN 7209 7849 8665
Matr 7209 7849 8665

FRI - 05FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



JOYLENE VALDEZ
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UNITED STATES US

140
VALERIE DAVIS
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REF: 680106MR1A015AGNKO

DATE TIME



FedEx
Express



2 of 3
TPSN 7209 7849 9000
Matr 7209 7849 8906 8201

FRI - 05FEB A1
PRIORITY OVERNIGHT

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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

**GC/MS Volatile Organics
Los Alamos National Laboratory (LANL)
SDG 10-1567**

Method/Analysis Information

Procedure: Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer
Analytical Method: SW846 8260B
Prep Method: SW846 5030
Analytical Batch Number: 952150
Prep Batch Number: 952148

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
246330001	RE15-10-8332
246330002	RE15-10-8304
246330003	RE15-10-8305
246330004	RE15-10-8306
246330005	RE15-10-8307
246330006	RE15-10-8309
246330007	RE15-10-8308
246330008	RE15-10-8301
246330009	RE15-10-8300
246330010	RE15-10-8324
1202040701	Method Blank (MB)
1202040704	Laboratory Control Sample (LCS)
1202040705	Laboratory Control Sample (LCS)
1202049551	Method Blank (MB)
1202049552	Laboratory Control Sample (LCS)
1202049553	Laboratory Control Sample (LCS)
1202040702	246330002(RE15-10-8304) Post Spike (PS)
1202040703	246330002(RE15-10-8304) 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 246330 002, 003, 004, 005, 006, 007, 008, 009 and 010 in this SDG were analyzed on an "dry weight" basis. Samples 246330 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 Target software package. False positives have been removed from the Target quantitation reports per standard operating procedures (SOP) section 19.1.2.

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.

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.

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.

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 inverted 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 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

Sample 246330003 (RE15-10-8305) did not pass surrogate recoveries. The sample was re-analyzed and confirmed the results. See DER 793902.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

Sample 246330002 (RE15-10-8304) 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(s) between the matrix spike pair met the acceptance limits.

Internal Standard (ISTD) Acceptance

In sample 246330003 (RE15-10-8305), internal standard responses were outside the required acceptance criteria. The sample was re-analyzed and confirmed the results. See DER 793902.

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 246330002 (RE15-10-8304), 246330003 (RE15-10-8305) and 246330010 (RE15-10-8324) were re-analyzed due to unacceptable recoveries in the initial analysis.

Miscellaneous Information**Electronic Package 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 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

DER # 793902 was generated for 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.

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
VOA7.I	Gas Chromatograph/Mass Spectrometer	HP6890N/HP5973N	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 of 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: 10-1567 GEL Work Order: 246330

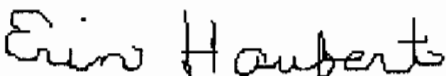
The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- 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: 28 FEB 2010

Title: Data Validator

Roadmap for LANL 10-1567 VOA

This roadmap was analyzed by ale01592 on 02-22-2010, 09:40.

This roadmap was reviewed by chl on 02-25-2010, 11:47.

Sample

exclude	manual	datafile	smpid	clientid	injdate	injtime	sublist	dilution	batchid	comment
<input type="checkbox"/>	N	/chem/VOA7.i/021110v7/7y431.d	246330001	RE15-10-8332	12-FEB-2010	02:17	10-1567.sub	1	952150	<input type="text"/>
<input checked="" type="checkbox"/>	N	/chem/VOA7.i/021110v7/7y432.d	246330002	RE15-10-8304	12-FEB-2010	02:52	10-1567.sub	1	952150	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/021110v7/7y433.d	246330003	RE15-10-8305	12-FEB-2010	03:28	10-1567.sub	1	952150	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/021110v7/7y434.d	246330004	RE15-10-8306	12-FEB-2010	04:03	10-1567.sub	1	952150	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/021110v7/7y435.d	246330005	RE15-10-8307	12-FEB-2010	04:37	10-1567.sub	1	952150	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/021110v7/7y436.d	246330006	RE15-10-8309	12-FEB-2010	05:11	10-1567.sub	1	952150	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/021110v7/7y437.d	246330007	RE15-10-8308	12-FEB-2010	05:46	10-1567.sub	1	952150	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/021110v7/7y438.d	246330008	RE15-10-8301	12-FEB-2010	06:22	10-1567.sub	1	952150	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/021110v7/7y439.d	246330009	RE15-10-8300	12-FEB-2010	06:57	10-1567.sub	1	952150	<input type="text"/>
<input checked="" type="checkbox"/>	N	/chem/VOA7.i/021110v7/7y440.d	246330010	RE15-10-8324	12-FEB-2010	07:33	10-1567.sub	1	952150	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/021210v7/7y511.d	246330002	RE15-10-8304	12-FEB-2010	17:45	10-1567.sub	1	952150	<input type="text"/>
<input checked="" type="checkbox"/>	N	/chem/VOA7.i/021210v7/7y512.d	246330003	RE15-10-8305	12-FEB-2010	18:20	10-1567.sub	1	952150	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/021210v7/7y513.d	246330010	RE15-10-8324	12-FEB-2010	18:56	10-1567.sub	1	952150	<input type="text"/>

QC Sample

exclude	manual	datafile	smpid	clientid	sampletype	injdate	injtime	sublist	dilution	batchid	comment
<input type="checkbox"/>	N	/chem/VOA7.i/021110v7/7y426LL.d	1202040704	LCS	lcs	11-FEB-2010	23:21	all.sub	1	952150	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/021110v7/7y428LL.d	1202040705	SLCS	lcs	12-FEB-2010	00:33	all.sub	1	952150	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/021110v7/7y430BL.d	1202040701	BLANK	mb	12-FEB-2010	01:42	all.sub	1	952150	<input type="text"/>

■	N	/chem/VOA7.i021110v7/7y441.d	1202040702	RE15-10-8304MS	ms	12-FEB-2010	08:08	CALsubL+.sub	1	952150	<input type="checkbox"/>
■	N	/chem/VOA7.i021110v7/7y442.d	1202040703	RE15-10-8304MSD	msd	12-FEB-2010	08:43	CALsubL+.sub	1	952150	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i021210v7/7y507LL.d	1202049552	LCS	lcs	12-FEB-2010	15:26	all.sub	1	952150	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i021210v7/7y508LL.d	1202049553	SLCS	lcs	12-FEB-2010	16:01	all.sub	1	952150	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i021210v7/7y510LL.d	1202049551	BLANK	mb	12-FEB-2010	17:10	all.sub	1	952150	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i021210v7/7y517.d	1202040702	RE15-10-8304MS	ms	12-FEB-2010	21:16	10-1567.sub	1	952150	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i021210v7/7y518.d	1202040703	RE15-10-8304MSD	msd	12-FEB-2010	21:51	10-1567.sub	1	952150	<input type="checkbox"/>

Sample Data Summary

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330009	Date Received: 02/05/2010 09:00	%Moisture: 30.6
Client ID: RE15-10-8300	Client: LANL010	Project: LANL01004
Batch ID: 952150	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/12/2010 06:57	Inst: VOA7.1	Dilution: 1
Prep Date: 02/11/2010 14:30	Analyst: AX01	Purge Vol: 5 mL
Data File: 7y439.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.44	ug/kg	0.490	1.44
74-87-3	Chloromethane	U	1.44	ug/kg	0.433	1.44
75-01-4	Vinyl chloride	U	1.44	ug/kg	0.433	1.44
74-83-9	Bromomethane	U	1.44	ug/kg	0.433	1.44
75-00-3	Chloroethane	U	1.44	ug/kg	0.433	1.44
75-69-4	Trichlorofluoromethane	U	1.44	ug/kg	0.433	1.44
67-64-1	Acetone		7.98	ug/kg	2.39	7.21
75-35-4	1,1-Dichloroethylene	U	1.44	ug/kg	0.433	1.44
74-88-4	Iodomethane	U	7.21	ug/kg	2.31	7.21
75-09-2	Methylene chloride	U	7.21	ug/kg	2.88	7.21
75-15-0	Carbon disulfide	U	7.21	ug/kg	1.80	7.21
156-60-5	trans-1,2-Dichloroethylene	U	1.44	ug/kg	0.433	1.44
75-34-3	1,1-Dichloroethane	U	1.44	ug/kg	0.433	1.44
78-93-3	2-Butanone	U	7.21	ug/kg	2.16	7.21
156-59-2	cis-1,2-Dichloroethylene	U	1.44	ug/kg	0.433	1.44
594-20-7	2,2-Dichloropropane	U	1.44	ug/kg	0.433	1.44
67-66-3	Chloroform	U	1.44	ug/kg	0.433	1.44
74-97-5	Bromochloromethane	U	1.44	ug/kg	0.476	1.44
71-55-6	1,1,1-Trichloroethane	U	1.44	ug/kg	0.433	1.44
563-58-6	1,1-Dichloropropene	U	1.44	ug/kg	0.433	1.44
56-23-5	Carbon tetrachloride	U	1.44	ug/kg	0.433	1.44
107-06-2	1,2-Dichloroethane	U	1.44	ug/kg	0.433	1.44
71-43-2	Benzene	U	1.44	ug/kg	0.433	1.44
79-01-6	Trichloroethylene	U	1.44	ug/kg	0.476	1.44
78-87-5	1,2-Dichloropropane	U	1.44	ug/kg	0.433	1.44
75-27-4	Bromodichloromethane	U	1.44	ug/kg	0.433	1.44
74-95-3	Dibromomethane	U	1.44	ug/kg	0.433	1.44
108-10-1	4-Methyl-2-pentanone	U	7.21	ug/kg	1.80	7.21
10061-01-5	cis-1,3-Dichloropropylene	U	1.44	ug/kg	0.433	1.44
108-88-3	Toluene	U	1.44	ug/kg	0.433	1.44
10061-02-6	trans-1,3-Dichloropropylene	U	1.44	ug/kg	0.433	1.44
79-00-5	1,1,2-Trichloroethane	U	1.44	ug/kg	0.433	1.44
591-78-6	2-Hexanone	U	7.21	ug/kg	2.16	7.21
142-28-9	1,3-Dichloropropane	U	1.44	ug/kg	0.433	1.44
127-18-4	Tetrachloroethylene	U	1.44	ug/kg	0.433	1.44
124-48-1	Dibromochloromethane	U	1.44	ug/kg	0.433	1.44
106-93-4	1,2-Dibromoethane	U	1.44	ug/kg	0.433	1.44
108-90-7	Chlorobenzene	U	1.44	ug/kg	0.433	1.44

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 246330009

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.1
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 % Moisture: 30.6
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE15-10-8300
 Batch ID: 952150
 Run Date: 02/12/2010 06:57
 Prep Date: 02/11/2010 14:30
 Data File: 7y439.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.44	ug/kg	0.433	1.44
179601-23-1	m,p-Xylenes	U	2.88	ug/kg	0.433	2.88
95-47-6	o-Xylene	U	1.44	ug/kg	0.433	1.44
100-42-5	Styrene	U	1.44	ug/kg	0.433	1.44
75-25-2	Bromoform	U	1.44	ug/kg	0.433	1.44
79-34-5	1,1,2,2-Tetrachloroethane	U	1.44	ug/kg	0.433	1.44
96-18-4	1,2,3-Trichloropropane	U	1.44	ug/kg	0.433	1.44
108-86-1	Bromobenzene	U	1.44	ug/kg	0.433	1.44
103-65-1	n-Propylbenzene	U	1.44	ug/kg	0.433	1.44
95-49-8	2-Chlorotoluene	U	1.44	ug/kg	0.433	1.44
98-82-8	Isopropylbenzene	U	1.44	ug/kg	0.433	1.44
108-67-8	1,3,5-Trimethylbenzene	U	1.44	ug/kg	0.433	1.44
106-43-4	4-Chlorotoluene	U	1.44	ug/kg	0.433	1.44
98-06-6	tert-Butylbenzene	U	1.44	ug/kg	0.433	1.44
95-63-6	1,2,4-Trimethylbenzene	U	1.44	ug/kg	0.433	1.44
135-98-8	sec-Butylbenzene	U	1.44	ug/kg	0.433	1.44
99-87-6	4-Isopropyltoluene		16.7	ug/kg	0.433	1.44
541-73-1	1,3-Dichlorobenzene	U	1.44	ug/kg	0.433	1.44
106-46-7	1,4-Dichlorobenzene	U	1.44	ug/kg	0.433	1.44
104-51-8	n-Butylbenzene	U	1.44	ug/kg	0.433	1.44
96-12-8	1,2-Dibromo-3-chloropropane	U	1.44	ug/kg	0.433	1.44
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	7.21	ug/kg	2.31	7.21
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.44	ug/kg	0.433	1.44
95-50-1	1,2-Dichlorobenzene	U	1.44	ug/kg	0.433	1.44

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Alcohol	9.41	10.8	ug/kg		J
	Unknown Hydrocarbon	18.79	15.6	ug/kg		J
	Unknown Hydrocarbon	19.65	12.1	ug/kg		J
	Unknown Hydrocarbon	19.96	55	ug/kg		J
	Unknown Hydrocarbon	21.05	30.7	ug/kg		J
	Unknown Hydrocarbon	23.22	36	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330008	Date Received: 02/05/2010 09:00	%Moisture: 6
Client ID: RE15-10-8301	Client: LANL010	Project: LANL01004
Batch ID: 952150	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/12/2010 06:22	Inst: VOA7.I	Dilution: 1
Prep Date: 02/11/2010 14:28	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7y438.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

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	1.60	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	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	1.60	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: 10-1567
 Lab Sample ID: 246330008

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 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
 Level: LOW

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
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 Hydrocarbon	19.69	8.45	ug/kg		J
	Unknown Siloxane	21.55	8.63	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330002	Date Received: 02/05/2010 09:00	%Moisture: 20.3
Client ID: RE15-10-8304	Client: LANL010	Project: LANL01004
Batch ID: 952150	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/12/2010 17:45	Inst: VOA7.I	Dilution: 1
Prep Date: 02/12/2010 15:12	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7y511.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.26	ug/kg	0.427	1.26
74-87-3	Chloromethane	U	1.26	ug/kg	0.377	1.26
75-01-4	Vinyl chloride	U	1.26	ug/kg	0.377	1.26
74-83-9	Bromomethane	U	1.26	ug/kg	0.377	1.26
75-00-3	Chloroethane	U	1.26	ug/kg	0.377	1.26
75-69-4	Trichlorofluoromethane	U	1.26	ug/kg	0.377	1.26
67-64-1	Acetone	U	6.28	ug/kg	2.08	6.28
75-35-4	1,1-Dichloroethylene	U	1.26	ug/kg	0.377	1.26
74-88-4	Iodomethane	U	6.28	ug/kg	2.01	6.28
75-09-2	Methylene chloride	U	6.28	ug/kg	2.51	6.28
75-15-0	Carbon disulfide	U	6.28	ug/kg	1.57	6.28
156-60-5	trans-1,2-Dichloroethylene	U	1.26	ug/kg	0.377	1.26
75-34-3	1,1-Dichloroethane	U	1.26	ug/kg	0.377	1.26
78-93-3	2-Butanone	U	6.28	ug/kg	1.88	6.28
156-59-2	cis-1,2-Dichloroethylene	U	1.26	ug/kg	0.377	1.26
594-20-7	2,2-Dichloropropane	U	1.26	ug/kg	0.377	1.26
67-66-3	Chloroform	U	1.26	ug/kg	0.377	1.26
74-97-5	Bromochloromethane	U	1.26	ug/kg	0.414	1.26
71-55-6	1,1,1-Trichloroethane	U	1.26	ug/kg	0.377	1.26
563-58-6	1,1-Dichloropropene	U	1.26	ug/kg	0.377	1.26
56-23-5	Carbon tetrachloride	U	1.26	ug/kg	0.377	1.26
107-06-2	1,2-Dichloroethane	U	1.26	ug/kg	0.377	1.26
71-43-2	Benzene	U	1.26	ug/kg	0.377	1.26
79-01-6	Trichloroethylene	U	1.26	ug/kg	0.414	1.26
78-87-5	1,2-Dichloropropane	U	1.26	ug/kg	0.377	1.26
75-27-4	Bromodichloromethane	U	1.26	ug/kg	0.377	1.26
74-95-3	Dibromomethane	U	1.26	ug/kg	0.377	1.26
108-10-1	4-Methyl-2-pentanone	U	6.28	ug/kg	1.57	6.28
10061-01-5	cis-1,3-Dichloropropylene	U	1.26	ug/kg	0.377	1.26
108-88-3	Toluene	U	1.26	ug/kg	0.377	1.26
10061-02-6	trans-1,3-Dichloropropylene	U	1.26	ug/kg	0.377	1.26
79-00-5	1,1,2-Trichloroethane	U	1.26	ug/kg	0.377	1.26
591-78-6	2-Hexanone	U	6.28	ug/kg	1.88	6.28
142-28-9	1,3-Dichloropropane	U	1.26	ug/kg	0.377	1.26
127-18-4	Tetrachloroethylene	U	1.26	ug/kg	0.377	1.26
124-48-1	Dibromochloromethane	U	1.26	ug/kg	0.377	1.26
106-93-4	1,2-Dibromoethane	U	1.26	ug/kg	0.377	1.26
108-90-7	Chlorobenzene	U	1.26	ug/kg	0.377	1.26

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330002	Date Received: 02/05/2010 09:00	%Moisture: 20.3
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8304	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952150	Inst: VOA7.1	Dilution: 1
Run Date: 02/12/2010 17:45	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/12/2010 15:12	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7y511.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.26	ug/kg	0.377	1.26
179601-23-1	m,p-Xylenes	U	2.51	ug/kg	0.377	2.51
95-47-6	o-Xylene	U	1.26	ug/kg	0.377	1.26
100-42-5	Styrene	U	1.26	ug/kg	0.377	1.26
75-25-2	Bromoform	U	1.26	ug/kg	0.377	1.26
79-34-5	1,1,2,2-Tetrachloroethane	U	1.26	ug/kg	0.377	1.26
96-18-4	1,2,3-Trichloropropane	U	1.26	ug/kg	0.377	1.26
108-86-1	Bromobenzene	U	1.26	ug/kg	0.377	1.26
103-65-1	n-Propylbenzene	U	1.26	ug/kg	0.377	1.26
95-49-8	2-Chlorotoluene	U	1.26	ug/kg	0.377	1.26
98-82-8	Isopropylbenzene	U	1.26	ug/kg	0.377	1.26
108-67-8	1,3,5-Trimethylbenzene	U	1.26	ug/kg	0.377	1.26
106-43-4	4-Chlorotoluene	U	1.26	ug/kg	0.377	1.26
98-06-6	tert-Butylbenzene	U	1.26	ug/kg	0.377	1.26
95-63-6	1,2,4-Trimethylbenzene	U	1.26	ug/kg	0.377	1.26
135-98-8	sec-Butylbenzene	U	1.26	ug/kg	0.377	1.26
99-87-6	4-Isopropyltoluene	U	1.26	ug/kg	0.377	1.26
541-73-1	1,3-Dichlorobenzene	U	1.26	ug/kg	0.377	1.26
106-46-7	1,4-Dichlorobenzene	U	1.26	ug/kg	0.377	1.26
104-51-8	n-Butylbenzene	U	1.26	ug/kg	0.377	1.26
96-12-8	1,2-Dibromo-3-chloropropane	U	1.26	ug/kg	0.377	1.26
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.28	ug/kg	2.01	6.28
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.26	ug/kg	0.377	1.26
95-50-1	1,2-Dichlorobenzene	U	1.26	ug/kg	0.377	1.26

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	21.55	12.7	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330003	Date Received: 02/05/2010 09:00	%Moisture: 38.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8305	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952150	Inst: VOA7.1	Dilution: 1
Run Date: 02/12/2010 03:28	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/11/2010 14:18	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7y433.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.62	ug/kg	0.552	1.62
74-87-3	Chloromethane	U	1.62	ug/kg	0.487	1.62
75-01-4	Vinyl chloride	U	1.62	ug/kg	0.487	1.62
74-83-9	Bromomethane	U	1.62	ug/kg	0.487	1.62
75-00-3	Chloroethane	U	1.62	ug/kg	0.487	1.62
75-69-4	Trichlorofluoromethane	U	1.62	ug/kg	0.487	1.62
67-64-1	Acetone		14.1	ug/kg	2.69	8.11
75-35-4	1,1-Dichloroethylene	U	1.62	ug/kg	0.487	1.62
74-88-4	Iodomethane	U	8.11	ug/kg	2.60	8.11
75-09-2	Methylene chloride	U	8.11	ug/kg	3.25	8.11
75-15-0	Carbon disulfide	U	8.11	ug/kg	2.03	8.11
156-60-5	trans-1,2-Dichloroethylene	U	1.62	ug/kg	0.487	1.62
75-34-3	1,1-Dichloroethane	U	1.62	ug/kg	0.487	1.62
78-93-3	2-Butanone	U	8.11	ug/kg	2.43	8.11
156-59-2	cis-1,2-Dichloroethylene	U	1.62	ug/kg	0.487	1.62
594-20-7	2,2-Dichloropropane	U	1.62	ug/kg	0.487	1.62
67-66-3	Chloroform	U	1.62	ug/kg	0.487	1.62
74-97-5	Bromochloromethane	U	1.62	ug/kg	0.535	1.62
71-55-6	1,1,1-Trichloroethane	U	1.62	ug/kg	0.487	1.62
563-58-6	1,1-Dichloropropene	U	1.62	ug/kg	0.487	1.62
56-23-5	Carbon tetrachloride	U	1.62	ug/kg	0.487	1.62
107-06-2	1,2-Dichloroethane	U	1.62	ug/kg	0.487	1.62
71-43-2	Benzene	U	1.62	ug/kg	0.487	1.62
79-01-6	Trichloroethylene	U	1.62	ug/kg	0.535	1.62
78-87-5	1,2-Dichloropropane	U	1.62	ug/kg	0.487	1.62
75-27-4	Bromodichloromethane	U	1.62	ug/kg	0.487	1.62
74-95-3	Dibromomethane	U	1.62	ug/kg	0.487	1.62
108-10-1	4-Methyl-2-pentanone	U	8.11	ug/kg	2.03	8.11
10061-01-5	cis-1,3-Dichloropropylene	U	1.62	ug/kg	0.487	1.62
108-88-3	Toluene	J	1.12	ug/kg	0.487	1.62
10061-02-6	trans-1,3-Dichloropropylene	U	1.62	ug/kg	0.487	1.62
79-00-5	1,1,2-Trichloroethane	U	1.62	ug/kg	0.487	1.62
591-78-6	2-Hexanone	U	8.11	ug/kg	2.43	8.11
142-28-9	1,3-Dichloropropane	U	1.62	ug/kg	0.487	1.62
127-18-4	Tetrachloroethylene	U	1.62	ug/kg	0.487	1.62
124-48-1	Dibromochloromethane	U	1.62	ug/kg	0.487	1.62
106-93-4	1,2-Dibromoethane	U	1.62	ug/kg	0.487	1.62
108-90-7	Chlorobenzene	U	1.62	ug/kg	0.487	1.62

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330003	Date Received: 02/05/2010 09:00	%Moisture: 38.4
Client ID: RE15-10-8305	Client: LANL010	Project: LANL01004
Batch ID: 952150	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/12/2010 03:28	Inst: VOA7J	Dilution: 1
Prep Date: 02/11/2010 14:18	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7y433.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.62	ug/kg	0.487	1.62
179601-23-1	m,p-Xylenes	U	3.25	ug/kg	0.487	3.25
95-47-6	o-Xylene	U	1.62	ug/kg	0.487	1.62
100-42-5	Styrene	U	1.62	ug/kg	0.487	1.62
75-25-2	Bromoform	U	1.62	ug/kg	0.487	1.62
79-34-5	1,1,2,2-Tetrachloroethane	U	1.62	ug/kg	0.487	1.62
96-18-4	1,2,3-Trichloropropane	U	1.62	ug/kg	0.487	1.62
108-86-1	Bromobenzene	U	1.62	ug/kg	0.487	1.62
103-65-1	n-Propylbenzene	U	1.62	ug/kg	0.487	1.62
95-49-8	2-Chlorotoluene	U	1.62	ug/kg	0.487	1.62
98-82-8	Isopropylbenzene	U	1.62	ug/kg	0.487	1.62
108-67-8	1,3,5-Trimethylbenzene	U	1.62	ug/kg	0.487	1.62
106-43-4	4-Chlorotoluene	U	1.62	ug/kg	0.487	1.62
98-06-6	tert-Butylbenzene	U	1.62	ug/kg	0.487	1.62
95-63-6	1,2,4-Trimethylbenzene	U	1.62	ug/kg	0.487	1.62
135-98-8	sec-Butylbenzene	U	1.62	ug/kg	0.487	1.62
99-87-6	4-Isopropyltoluene		8.55	ug/kg	0.487	1.62
541-73-1	1,3-Dichlorobenzene	U	1.62	ug/kg	0.487	1.62
106-46-7	1,4-Dichlorobenzene	U	1.62	ug/kg	0.487	1.62
104-51-8	n-Butylbenzene	U	1.62	ug/kg	0.487	1.62
96-12-8	1,2-Dibromo-3-chloropropane	U	1.62	ug/kg	0.487	1.62
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	8.11	ug/kg	2.60	8.11
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.62	ug/kg	0.487	1.62
95-50-1	1,2-Dichlorobenzene	U	1.62	ug/kg	0.487	1.62

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Hydrocarbon	19.65	44.1	ug/kg		J
	Unknown Hydrocarbon	19.97	19	ug/kg		J
	Unknown Alkene	20.24	11.2	ug/kg		J
	Unknown Hydrocarbon	20.33	19.2	ug/kg		J
	Unknown Hydrocarbon	20.62	22.6	ug/kg		J
	Unknown Siloxane	21.55	10.9	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 246330004

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 21.2
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.27	ug/kg	0.432	1.27
74-87-3	Chloromethane	U	1.27	ug/kg	0.381	1.27
75-01-4	Vinyl chloride	U	1.27	ug/kg	0.381	1.27
74-83-9	Bromomethane	U	1.27	ug/kg	0.381	1.27
75-00-3	Chloroethane	U	1.27	ug/kg	0.381	1.27
75-69-4	Trichlorofluoromethane	U	1.27	ug/kg	0.381	1.27
67-64-1	Acetone	U	6.35	ug/kg	2.11	6.35
75-35-4	1,1-Dichloroethylene	U	1.27	ug/kg	0.381	1.27
74-88-4	Iodomethane	U	6.35	ug/kg	2.03	6.35
75-09-2	Methylene chloride	U	6.35	ug/kg	2.54	6.35
75-15-0	Carbon disulfide	U	6.35	ug/kg	1.59	6.35
156-60-5	trans-1,2-Dichloroethylene	U	1.27	ug/kg	0.381	1.27
75-34-3	1,1-Dichloroethane	U	1.27	ug/kg	0.381	1.27
78-93-3	2-Butanone	U	6.35	ug/kg	1.90	6.35
156-59-2	cis-1,2-Dichloroethylene	U	1.27	ug/kg	0.381	1.27
594-20-7	2,2-Dichloropropane	U	1.27	ug/kg	0.381	1.27
67-66-3	Chloroform	U	1.27	ug/kg	0.381	1.27
74-97-5	Bromochloromethane	U	1.27	ug/kg	0.419	1.27
71-55-6	1,1,1-Trichloroethane	U	1.27	ug/kg	0.381	1.27
563-58-6	1,1-Dichloropropene	U	1.27	ug/kg	0.381	1.27
56-23-5	Carbon tetrachloride	U	1.27	ug/kg	0.381	1.27
107-06-2	1,2-Dichloroethane	U	1.27	ug/kg	0.381	1.27
71-43-2	Benzene	U	1.27	ug/kg	0.381	1.27
79-01-6	Trichloroethylene	U	1.27	ug/kg	0.419	1.27
78-87-5	1,2-Dichloropropane	U	1.27	ug/kg	0.381	1.27
75-27-4	Bromodichloromethane	U	1.27	ug/kg	0.381	1.27
74-95-3	Dibromomethane	U	1.27	ug/kg	0.381	1.27
108-10-1	4-Methyl-2-pentanone	U	6.35	ug/kg	1.59	6.35
10061-01-5	cis-1,3-Dichloropropylene	U	1.27	ug/kg	0.381	1.27
108-88-3	Toluene	U	1.27	ug/kg	0.381	1.27
10061-02-6	trans-1,3-Dichloropropylene	U	1.27	ug/kg	0.381	1.27
79-00-5	1,1,2-Trichloroethane	U	1.27	ug/kg	0.381	1.27
591-78-6	2-Hexanone	U	6.35	ug/kg	1.90	6.35
142-28-9	1,3-Dichloropropane	U	1.27	ug/kg	0.381	1.27
127-18-4	Tetrachloroethylene	U	1.27	ug/kg	0.381	1.27
124-48-1	Dibromochloromethane	U	1.27	ug/kg	0.381	1.27
106-93-4	1,2-Dibromoethane	U	1.27	ug/kg	0.381	1.27
108-90-7	Chlorobenzene	U	1.27	ug/kg	0.381	1.27

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1567
Lab Sample ID: 246330004

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 21.2
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.27	ug/kg	0.381	1.27
179601-23-1	m,p-Xylenes	U	2.54	ug/kg	0.381	2.54
95-47-6	o-Xylene	U	1.27	ug/kg	0.381	1.27
100-42-5	Styrene	U	1.27	ug/kg	0.381	1.27
75-25-2	Bromoform	U	1.27	ug/kg	0.381	1.27
79-34-5	1,1,2,2-Tetrachloroethane	U	1.27	ug/kg	0.381	1.27
96-18-4	1,2,3-Trichloropropane	U	1.27	ug/kg	0.381	1.27
108-86-1	Bromobenzene	U	1.27	ug/kg	0.381	1.27
103-65-1	n-Propylbenzene	U	1.27	ug/kg	0.381	1.27
95-49-8	2-Chlorotoluene	U	1.27	ug/kg	0.381	1.27
98-82-8	Isopropylbenzene	U	1.27	ug/kg	0.381	1.27
108-67-8	1,3,5-Trimethylbenzene	U	1.27	ug/kg	0.381	1.27
106-43-4	4-Chlorotoluene	U	1.27	ug/kg	0.381	1.27
98-06-6	tert-Butylbenzene	U	1.27	ug/kg	0.381	1.27
95-63-6	1,2,4-Trimethylbenzene	U	1.27	ug/kg	0.381	1.27
135-98-8	sec-Butylbenzene	U	1.27	ug/kg	0.381	1.27
99-87-6	4-Isopropyltoluene	U	1.27	ug/kg	0.381	1.27
541-73-1	1,3-Dichlorobenzene	U	1.27	ug/kg	0.381	1.27
106-46-7	1,4-Dichlorobenzene	U	1.27	ug/kg	0.381	1.27
104-51-8	n-Butylbenzene	U	1.27	ug/kg	0.381	1.27
96-12-8	1,2-Dibromo-3-chloropropane	U	1.27	ug/kg	0.381	1.27
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.35	ug/kg	2.03	6.35
630-20-6	1,1,1,2-Tetrachloroethane	U	1.27	ug/kg	0.381	1.27
95-50-1	1,2-Dichlorobenzene	U	1.27	ug/kg	0.381	1.27

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
No Tentatively Identified Compounds Found				ug/kg		

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 246330005

Client ID: RE15-10-8307
 Batch ID: 952150
 Run Date: 02/12/2010 04:37
 Prep Date: 02/11/2010 14:22
 Data File: 7y435.d

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.1
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 14.4
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.17	ug/kg	0.397	1.17
74-87-3	Chloromethane	U	1.17	ug/kg	0.351	1.17
75-01-4	Vinyl chloride	U	1.17	ug/kg	0.351	1.17
74-83-9	Bromomethane	U	1.17	ug/kg	0.351	1.17
75-00-3	Chloroethane	U	1.17	ug/kg	0.351	1.17
75-69-4	Trichlorofluoromethane	U	1.17	ug/kg	0.351	1.17
67-64-1	Acetone	U	5.84	ug/kg	1.94	5.84
75-35-4	1,1-Dichloroethylene	U	1.17	ug/kg	0.351	1.17
74-88-4	Iodomethane	U	5.84	ug/kg	1.87	5.84
75-09-2	Methylene chloride	U	5.84	ug/kg	2.34	5.84
75-15-0	Carbon disulfide	U	5.84	ug/kg	1.46	5.84
156-60-5	trans-1,2-Dichloroethylene	U	1.17	ug/kg	0.351	1.17
75-34-3	1,1-Dichloroethane	U	1.17	ug/kg	0.351	1.17
78-93-3	2-Butanone	U	5.84	ug/kg	1.75	5.84
156-59-2	cis-1,2-Dichloroethylene	U	1.17	ug/kg	0.351	1.17
594-20-7	2,2-Dichloropropane	U	1.17	ug/kg	0.351	1.17
67-66-3	Chloroform	U	1.17	ug/kg	0.351	1.17
74-97-5	Bromochloromethane	U	1.17	ug/kg	0.386	1.17
71-55-6	1,1,1-Trichloroethane	U	1.17	ug/kg	0.351	1.17
563-58-6	1,1-Dichloropropene	U	1.17	ug/kg	0.351	1.17
56-23-5	Carbon tetrachloride	U	1.17	ug/kg	0.351	1.17
107-06-2	1,2-Dichloroethane	U	1.17	ug/kg	0.351	1.17
71-43-2	Benzene	U	1.17	ug/kg	0.351	1.17
79-01-6	Trichloroethylene	U	1.17	ug/kg	0.386	1.17
78-87-5	1,2-Dichloropropane	U	1.17	ug/kg	0.351	1.17
75-27-4	Bromodichloromethane	U	1.17	ug/kg	0.351	1.17
74-95-3	Dibromomethane	U	1.17	ug/kg	0.351	1.17
108-10-1	4-Methyl-2-pentanone	U	5.84	ug/kg	1.46	5.84
10061-01-5	cis-1,3-Dichloropropylene	U	1.17	ug/kg	0.351	1.17
108-88-3	Toluene	U	1.17	ug/kg	0.351	1.17
10061-02-6	trans-1,3-Dichloropropylene	U	1.17	ug/kg	0.351	1.17
79-00-5	1,1,2-Trichloroethane	U	1.17	ug/kg	0.351	1.17
591-78-6	2-Hexanone	U	5.84	ug/kg	1.75	5.84
142-28-9	1,3-Dichloropropane	U	1.17	ug/kg	0.351	1.17
127-18-4	Tetrachloroethylene	U	1.17	ug/kg	0.351	1.17
124-48-1	Dibromochloromethane	U	1.17	ug/kg	0.351	1.17
106-93-4	1,2-Dibromoethane	U	1.17	ug/kg	0.351	1.17
108-90-7	Chlorobenzene	U	1.17	ug/kg	0.351	1.17

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330005	Date Received: 02/05/2010 09:00	%Moisture: 14.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8307	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952150	Inst: VOA7J	Dilution: 1
Run Date: 02/12/2010 04:37	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/11/2010 14:22	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7y435.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.17	ug/kg	0.351	1.17
179601-23-1	m,p-Xylenes	U	2.34	ug/kg	0.351	2.34
95-47-6	o-Xylene	U	1.17	ug/kg	0.351	1.17
100-42-5	Styrene	U	1.17	ug/kg	0.351	1.17
75-25-2	Bromoform	U	1.17	ug/kg	0.351	1.17
79-34-5	1,1,2,2-Tetrachloroethane	U	1.17	ug/kg	0.351	1.17
96-18-4	1,2,3-Trichloropropane	U	1.17	ug/kg	0.351	1.17
108-86-1	Bromobenzene	U	1.17	ug/kg	0.351	1.17
103-65-1	n-Propylbenzene	U	1.17	ug/kg	0.351	1.17
95-49-8	2-Chlorotoluene	U	1.17	ug/kg	0.351	1.17
98-82-8	Isopropylbenzene	U	1.17	ug/kg	0.351	1.17
108-67-8	1,3,5-Trimethylbenzene	U	1.17	ug/kg	0.351	1.17
106-43-4	4-Chlorotoluene	U	1.17	ug/kg	0.351	1.17
98-06-6	tert-Butylbenzene	U	1.17	ug/kg	0.351	1.17
95-63-6	1,2,4-Trimethylbenzene	U	1.17	ug/kg	0.351	1.17
135-98-8	sec-Butylbenzene	U	1.17	ug/kg	0.351	1.17
99-87-6	4-Isopropyltoluene	U	1.17	ug/kg	0.351	1.17
541-73-1	1,3-Dichlorobenzene	U	1.17	ug/kg	0.351	1.17
106-46-7	1,4-Dichlorobenzene	U	1.17	ug/kg	0.351	1.17
104-51-8	n-Butylbenzene	U	1.17	ug/kg	0.351	1.17
96-12-8	1,2-Dibromo-3-chloropropane	U	1.17	ug/kg	0.351	1.17
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.84	ug/kg	1.87	5.84
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.17	ug/kg	0.351	1.17
95-50-1	1,2-Dichlorobenzene	U	1.17	ug/kg	0.351	1.17

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
No Tentatively Identified Compounds Found						
				ug/kg		

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 246330007

Client ID: RE15-10-8308
 Batch ID: 952150
 Run Date: 02/12/2010 05:46
 Prep Date: 02/11/2010 14:26
 Data File: 7y437.d

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 27.6
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.38	ug/kg	0.470	1.38
74-87-3	Chloromethane	U	1.38	ug/kg	0.414	1.38
75-01-4	Vinyl chloride	U	1.38	ug/kg	0.414	1.38
74-83-9	Bromomethane	U	1.38	ug/kg	0.414	1.38
75-00-3	Chloroethane	U	1.38	ug/kg	0.414	1.38
75-69-4	Trichlorofluoromethane	U	1.38	ug/kg	0.414	1.38
67-64-1	Acetone	U	6.91	ug/kg	2.29	6.91
75-35-4	1,1-Dichloroethylene	U	1.38	ug/kg	0.414	1.38
74-88-4	Iodomethane	U	6.91	ug/kg	2.21	6.91
75-09-2	Methylene chloride	U	6.91	ug/kg	2.76	6.91
75-15-0	Carbon disulfide	U	6.91	ug/kg	1.73	6.91
156-60-5	trans-1,2-Dichloroethylene	U	1.38	ug/kg	0.414	1.38
75-34-3	1,1-Dichloroethane	U	1.38	ug/kg	0.414	1.38
78-93-3	2-Butanone	U	6.91	ug/kg	2.07	6.91
156-59-2	cis-1,2-Dichloroethylene	U	1.38	ug/kg	0.414	1.38
594-20-7	2,2-Dichloropropane	U	1.38	ug/kg	0.414	1.38
67-66-3	Chloroform	U	1.38	ug/kg	0.414	1.38
74-97-5	Bromochloromethane	U	1.38	ug/kg	0.456	1.38
71-55-6	1,1,1-Trichloroethane	U	1.38	ug/kg	0.414	1.38
563-58-6	1,1-Dichloropropene	U	1.38	ug/kg	0.414	1.38
56-23-5	Carbon tetrachloride	U	1.38	ug/kg	0.414	1.38
107-06-2	1,2-Dichloroethane	U	1.38	ug/kg	0.414	1.38
71-43-2	Benzene	U	1.38	ug/kg	0.414	1.38
79-01-6	Trichloroethylene	U	1.38	ug/kg	0.456	1.38
78-87-5	1,2-Dichloropropane	U	1.38	ug/kg	0.414	1.38
75-27-4	Bromodichloromethane	U	1.38	ug/kg	0.414	1.38
74-95-3	Dibromomethane	U	1.38	ug/kg	0.414	1.38
108-10-1	4-Methyl-2-pentanone	U	6.91	ug/kg	1.73	6.91
10061-01-5	cis-1,3-Dichloropropylene	U	1.38	ug/kg	0.414	1.38
108-88-3	Toluene	U	1.38	ug/kg	0.414	1.38
10061-02-6	trans-1,3-Dichloropropylene	U	1.38	ug/kg	0.414	1.38
79-00-5	1,1,2-Trichloroethane	U	1.38	ug/kg	0.414	1.38
591-78-6	2-Hexanone	U	6.91	ug/kg	2.07	6.91
142-28-9	1,3-Dichloropropane	U	1.38	ug/kg	0.414	1.38
127-18-4	Tetrachloroethylene	U	1.38	ug/kg	0.414	1.38
124-48-1	Dibromochloromethane	U	1.38	ug/kg	0.414	1.38
106-93-4	1,2-Dibromoethane	U	1.38	ug/kg	0.414	1.38
108-90-7	Chlorobenzene	U	1.38	ug/kg	0.414	1.38

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 246330007

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 27.6
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE15-10-8308
 Batch ID: 952150
 Run Date: 02/12/2010 05:46
 Prep Date: 02/11/2010 14:26
 Data File: 7y437.d

CAS No.	Parmname	Qualifier	Result	Units	MDI/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.38	ug/kg	0.414	1.38
179601-23-1	m,p-Xylenes	U	2.76	ug/kg	0.414	2.76
95-47-6	o-Xylene	U	1.38	ug/kg	0.414	1.38
100-42-5	Styrene	U	1.38	ug/kg	0.414	1.38
75-25-2	Bromoform	U	1.38	ug/kg	0.414	1.38
79-34-5	1,1,2,2-Tetrachloroethane	U	1.38	ug/kg	0.414	1.38
96-18-4	1,2,3-Trichloropropane	U	1.38	ug/kg	0.414	1.38
108-86-1	Bromobenzene	U	1.38	ug/kg	0.414	1.38
103-65-1	n-Propylbenzene	U	1.38	ug/kg	0.414	1.38
95-49-8	2-Chlorotoluene	U	1.38	ug/kg	0.414	1.38
98-82-8	Isopropylbenzene	U	1.38	ug/kg	0.414	1.38
108-67-8	1,3,5-Trimethylbenzene	U	1.38	ug/kg	0.414	1.38
106-43-4	4-Chlorotoluene	U	1.38	ug/kg	0.414	1.38
98-06-6	tert-Butylbenzene	U	1.38	ug/kg	0.414	1.38
95-63-6	1,2,4-Trimethylbenzene	U	1.38	ug/kg	0.414	1.38
135-98-8	sec-Butylbenzene	U	1.38	ug/kg	0.414	1.38
99-87-6	4-Isopropyltoluene	J	0.942	ug/kg	0.414	1.38
541-73-1	1,3-Dichlorobenzene	U	1.38	ug/kg	0.414	1.38
106-46-7	1,4-Dichlorobenzene	U	1.38	ug/kg	0.414	1.38
104-51-8	n-Butylbenzene	U	1.38	ug/kg	0.414	1.38
96-12-8	1,2-Dibromo-3-chloropropane	U	1.38	ug/kg	0.414	1.38
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.91	ug/kg	2.21	6.91
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.38	ug/kg	0.414	1.38
95-50-1	1,2-Dichlorobenzene	U	1.38	ug/kg	0.414	1.38

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Hydrocarbon	19.65	12.5	ug/kg		J
	Unknown Hydrocarbon	20.62	27.5	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 246330006

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 10.6
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.12	ug/kg	0.380	1.12
74-87-3	Chloromethane	U	1.12	ug/kg	0.336	1.12
75-01-4	Vinyl chloride	U	1.12	ug/kg	0.336	1.12
74-83-9	Bromomethane	U	1.12	ug/kg	0.336	1.12
75-00-3	Chloroethane	U	1.12	ug/kg	0.336	1.12
75-69-4	Trichlorofluoromethane	U	1.12	ug/kg	0.336	1.12
67-64-1	Acetone	U	5.60	ug/kg	1.86	5.60
75-35-4	1,1-Dichloroethylene	U	1.12	ug/kg	0.336	1.12
74-88-4	Iodomethane	U	5.60	ug/kg	1.79	5.60
75-09-2	Methylene chloride	U	5.60	ug/kg	2.24	5.60
75-15-0	Carbon disulfide	U	5.60	ug/kg	1.40	5.60
156-60-5	trans-1,2-Dichloroethylene	U	1.12	ug/kg	0.336	1.12
75-34-3	1,1-Dichloroethane	U	1.12	ug/kg	0.336	1.12
78-93-3	2-Butanone	U	5.60	ug/kg	1.68	5.60
156-59-2	cis-1,2-Dichloroethylene	U	1.12	ug/kg	0.336	1.12
594-20-7	2,2-Dichloropropane	U	1.12	ug/kg	0.336	1.12
67-66-3	Chloroform	U	1.12	ug/kg	0.336	1.12
74-97-5	Bromochloromethane	U	1.12	ug/kg	0.369	1.12
71-55-6	1,1,1-Trichloroethane	U	1.12	ug/kg	0.336	1.12
563-58-6	1,1-Dichloropropene	U	1.12	ug/kg	0.336	1.12
56-23-5	Carbon tetrachloride	U	1.12	ug/kg	0.336	1.12
107-06-2	1,2-Dichloroethane	U	1.12	ug/kg	0.336	1.12
71-43-2	Benzene	U	1.12	ug/kg	0.336	1.12
79-01-6	Trichloroethylene	U	1.12	ug/kg	0.369	1.12
78-87-5	1,2-Dichloropropane	U	1.12	ug/kg	0.336	1.12
75-27-4	Bromodichloromethane	U	1.12	ug/kg	0.336	1.12
74-95-3	Dibromomethane	U	1.12	ug/kg	0.336	1.12
108-10-1	4-Methyl-2-pentanone	U	5.60	ug/kg	1.40	5.60
10061-01-5	cis-1,3-Dichloropropylene	U	1.12	ug/kg	0.336	1.12
108-88-3	Toluene	U	1.12	ug/kg	0.336	1.12
10061-02-6	trans-1,3-Dichloropropylene	U	1.12	ug/kg	0.336	1.12
79-00-5	1,1,2-Trichloroethane	U	1.12	ug/kg	0.336	1.12
591-78-6	2-Hexanone	U	5.60	ug/kg	1.68	5.60
142-28-9	1,3-Dichloropropane	U	1.12	ug/kg	0.336	1.12
127-18-4	Tetrachloroethylene	U	1.12	ug/kg	0.336	1.12
124-48-1	Dibromochloromethane	U	1.12	ug/kg	0.336	1.12
106-93-4	1,2-Dibromoethane	U	1.12	ug/kg	0.336	1.12
108-90-7	Chlorobenzene	U	1.12	ug/kg	0.336	1.12

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 246330006

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 10.6
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.12	ug/kg	0.336	1.12
179601-23-1	m,p-Xylenes	U	2.24	ug/kg	0.336	2.24
95-47-6	o-Xylene	U	1.12	ug/kg	0.336	1.12
100-42-5	Styrene	U	1.12	ug/kg	0.336	1.12
75-25-2	Bromoform	U	1.12	ug/kg	0.336	1.12
79-34-5	1,1,2,2-Tetrachloroethane	U	1.12	ug/kg	0.336	1.12
96-18-4	1,2,3-Trichloropropane	U	1.12	ug/kg	0.336	1.12
108-86-1	Bromobenzene	U	1.12	ug/kg	0.336	1.12
103-65-1	n-Propylbenzene	U	1.12	ug/kg	0.336	1.12
95-49-8	2-Chlorotoluene	U	1.12	ug/kg	0.336	1.12
98-82-8	Isopropylbenzene	U	1.12	ug/kg	0.336	1.12
108-67-8	1,3,5-Trimethylbenzene	U	1.12	ug/kg	0.336	1.12
106-43-4	4-Chlorotoluene	U	1.12	ug/kg	0.336	1.12
98-06-6	tert-Butylbenzene	U	1.12	ug/kg	0.336	1.12
95-63-6	1,2,4-Trimethylbenzene	U	1.12	ug/kg	0.336	1.12
135-98-8	sec-Butylbenzene	U	1.12	ug/kg	0.336	1.12
99-87-6	4-Isopropyltoluene	U	1.12	ug/kg	0.336	1.12
541-73-1	1,3-Dichlorobenzene	U	1.12	ug/kg	0.336	1.12
106-46-7	1,4-Dichlorobenzene	U	1.12	ug/kg	0.336	1.12
104-51-8	n-Butylbenzene	U	1.12	ug/kg	0.336	1.12
96-12-8	1,2-Dibromo-3-chloropropane	U	1.12	ug/kg	0.336	1.12
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.60	ug/kg	1.79	5.60
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.12	ug/kg	0.336	1.12
95-50-1	1,2-Dichlorobenzene	U	1.12	ug/kg	0.336	1.12

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	21.55	8.04	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 246330010

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 20.9
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.26	ug/kg	0.430	1.26
74-87-3	Chloromethane	U	1.26	ug/kg	0.379	1.26
75-01-4	Vinyl chloride	U	1.26	ug/kg	0.379	1.26
74-83-9	Bromomethane	U	1.26	ug/kg	0.379	1.26
75-00-3	Chloroethane	U	1.26	ug/kg	0.379	1.26
75-69-4	Trichlorofluoromethane	U	1.26	ug/kg	0.379	1.26
67-64-1	Acetone	U	6.32	ug/kg	2.10	6.32
75-35-4	1,1-Dichloroethylene	U	1.26	ug/kg	0.379	1.26
74-88-4	Iodomethane	U	6.32	ug/kg	2.02	6.32
75-09-2	Methylene chloride	U	6.32	ug/kg	2.53	6.32
75-15-0	Carbon disulfide	U	6.32	ug/kg	1.58	6.32
156-60-5	trans-1,2-Dichloroethylene	U	1.26	ug/kg	0.379	1.26
75-34-3	1,1-Dichloroethane	U	1.26	ug/kg	0.379	1.26
78-93-3	2-Butanone	U	6.32	ug/kg	1.90	6.32
156-59-2	cis-1,2-Dichloroethylene	U	1.26	ug/kg	0.379	1.26
594-20-7	2,2-Dichloropropane	U	1.26	ug/kg	0.379	1.26
67-66-3	Chloroform	U	1.26	ug/kg	0.379	1.26
74-97-5	Bromochloromethane	U	1.26	ug/kg	0.417	1.26
71-55-6	1,1,1-Trichloroethane	U	1.26	ug/kg	0.379	1.26
563-58-6	1,1-Dichloropropene	U	1.26	ug/kg	0.379	1.26
56-23-5	Carbon tetrachloride	U	1.26	ug/kg	0.379	1.26
107-06-2	1,2-Dichloroethane	U	1.26	ug/kg	0.379	1.26
71-43-2	Benzene	U	1.26	ug/kg	0.379	1.26
79-01-6	Trichloroethylene	U	1.26	ug/kg	0.417	1.26
78-87-5	1,2-Dichloropropane	U	1.26	ug/kg	0.379	1.26
75-27-4	Bromodichloromethane	U	1.26	ug/kg	0.379	1.26
74-95-3	Dibromomethane	U	1.26	ug/kg	0.379	1.26
108-10-1	4-Methyl-2-pentanone	U	6.32	ug/kg	1.58	6.32
10061-01-5	cis-1,3-Dichloropropylene	U	1.26	ug/kg	0.379	1.26
108-88-3	Toluene	U	1.26	ug/kg	0.379	1.26
10061-02-6	trans-1,3-Dichloropropylene	U	1.26	ug/kg	0.379	1.26
79-00-5	1,1,2-Trichloroethane	U	1.26	ug/kg	0.379	1.26
591-78-6	2-Hexanone	U	6.32	ug/kg	1.90	6.32
142-28-9	1,3-Dichloropropane	U	1.26	ug/kg	0.379	1.26
127-18-4	Tetrachloroethylene	U	1.26	ug/kg	0.379	1.26
124-48-1	Dibromochloromethane	U	1.26	ug/kg	0.379	1.26
106-93-4	1,2-Dibromoethane	U	1.26	ug/kg	0.379	1.26
108-90-7	Chlorobenzene	U	1.26	ug/kg	0.379	1.26

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330010	Date Received: 02/05/2010 09:00	%Moisture: 20.9
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8324	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952150	Inst: VOA7.1	Dilution: 1
Run Date: 02/12/2010 18:56	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/12/2010 15:16	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7y513.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.26	ug/kg	0.379	1.26
179601-23-1	m,p-Xylenes	U	2.53	ug/kg	0.379	2.53
95-47-6	o-Xylene	U	1.26	ug/kg	0.379	1.26
100-42-5	Styrene	U	1.26	ug/kg	0.379	1.26
75-25-2	Bromoform	U	1.26	ug/kg	0.379	1.26
79-34-5	1,1,2,2-Tetrachloroethane	U	1.26	ug/kg	0.379	1.26
96-18-4	1,2,3-Trichloropropane	U	1.26	ug/kg	0.379	1.26
108-86-1	Bromobenzene	U	1.26	ug/kg	0.379	1.26
103-65-1	n-Propylbenzene	U	1.26	ug/kg	0.379	1.26
95-49-8	2-Chlorotoluene	U	1.26	ug/kg	0.379	1.26
98-82-8	Isopropylbenzene	U	1.26	ug/kg	0.379	1.26
108-67-8	1,3,5-Trimethylbenzene	U	1.26	ug/kg	0.379	1.26
106-43-4	4-Chlorotoluene	U	1.26	ug/kg	0.379	1.26
98-06-6	tert-Butylbenzene	U	1.26	ug/kg	0.379	1.26
95-63-6	1,2,4-Trimethylbenzene	U	1.26	ug/kg	0.379	1.26
135-98-8	sec-Butylbenzene	U	1.26	ug/kg	0.379	1.26
99-87-6	4-Isopropyltoluene	U	1.26	ug/kg	0.379	1.26
541-73-1	1,3-Dichlorobenzene	U	1.26	ug/kg	0.379	1.26
106-46-7	1,4-Dichlorobenzene	U	1.26	ug/kg	0.379	1.26
104-51-8	n-Butylbenzene	U	1.26	ug/kg	0.379	1.26
96-12-8	1,2-Dibromo-3-chloropropane	U	1.26	ug/kg	0.379	1.26
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.32	ug/kg	2.02	6.32
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.26	ug/kg	0.379	1.26
95-50-1	1,2-Dichlorobenzene	U	1.26	ug/kg	0.379	1.26

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
No Tentatively Identified Compounds Found				ug/kg		

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: S
Lab Sample ID: 246330001	Date Received: 02/05/2010 09:00	
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8332	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952150	Inst: VOA7.1	Dilution: 1
Run Date: 02/12/2010 02:17	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/11/2010 14:10	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7y431.d	Column: DB-624	Level: LOW

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: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: S
Lab Sample ID: 246330001	Date Received: 02/05/2010 09:00	
Client ID: RE15-10-8332	Client: LANL010	Project: LANL01004
Batch ID: 952150	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/12/2010 02:17	Inst: VOA7.1	Dilution: 1
Prep Date: 02/11/2010 14:10	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7y431.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

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
No Tentatively Identified Compounds Found				ug/kg		

QC Summary

Volatile
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-1567

Matrix Type: SOLID

CAP Column (1) : DB-624

Sample ID	Client ID	DCED4 %REC	TOL %REC	BFB %REC
1202040704	LCS for batch 952148	98	102	105
1202040705	LCS for batch 952148	93	110	101
1202040701	MB for batch 952148	99	110	108
246330001	RE15-10-8332	102	110	110
246330003	RE15-10-8305	98	152 *	155 *
246330004	RE15-10-8306	95	115	122
246330005	RE15-10-8307	95	115	124
246330006	RE15-10-8309	96	110	110
246330007	RE15-10-8308	92	113	115
246330008	RE15-10-8301	96	110	111
246330009	RE15-10-8300	93	117	117
1202049552	LCS for batch 952148	99	105	103
1202049553	LCS for batch 952148	98	111	101
1202049551	MB for batch 952148	105	111	107
246330002	RE15-10-8304	98	115	115
246330010	RE15-10-8324	100	119	121
1202040702	RE15-10-8304PS	96	114	116
1202040703	RE15-10-8304PSD	92	114	117

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

SDG Number: 10-1567

Sample Type: Post Spike

Client ID: RE15-10-8304PS

Matrix: R

Lab Sample ID: 1202040702

%Moisture: 20.3

Instrument: VOA7.1

Analysis Date: 02/12/2010 21:16

Dilution: 1

Analyst: AXO1

Prep Batch ID: 952148

Purge Vol: 5 mL

Batch ID: 952150

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	36.7	73	39-148
74-87-3	PS Chloromethane	50.0	0.00 U	47.4	95	42-131
75-01-4	PS Vinyl chloride	50.0	0.00 U	57.1	114	50-127
74-83-9	PS Bromomethane	50.0	0.00 U	47.4	95	26-135
75-00-3	PS Chloroethane	50.0	0.00 U	44.0	88	54-128
75-69-4	PS Trichlorofluoromethane	50.0	0.00 U	39.0	78	55-138
67-64-1	PS Acetone	250	0.00 U	78.9	32	20-144
75-35-4	PS 1,1-Dichloroethylene	50.0	0.00 U	40.0	80	55-128
74-88-4	PS Iodomethane	250	0.00 U	176	71	47-132
75-09-2	PS Methylene chloride	50.0	0.00 U	45.2	90	56-123
75-15-0	PS Carbon disulfide	250	0.00 U	213	85	53-133
156-60-5	PS trans-1,2-Dichloroethylene	50.0	0.00 U	41.0	82	57-119
75-34-3	PS 1,1-Dichloroethane	50.0	0.00 U	42.6	85	62-125
78-93-3	PS 2-Butanone	250	0.00 U	119	48	30-150
156-59-2	PS cis-1,2-Dichloroethylene	50.0	0.00 U	42.4	85	60-124
594-20-7	PS 2,2-Dichloropropane	50.0	0.00 U	44.6	89	56-129
67-66-3	PS Chloroform	50.0	0.00 U	39.4	79	62-120
74-97-5	PS Bromochloromethane	50.0	0.00 U	42.8	86	51-135
71-55-6	PS 1,1,1-Trichloroethane	50.0	0.00 U	39.2	78	58-129
563-58-6	PS 1,1-Dichloropropene	50.0	0.00 U	39.7	79	59-126
56-23-5	PS Carbon tetrachloride	50.0	0.00 U	38.6	77	55-132
107-06-2	PS 1,2-Dichloroethane	50.0	0.00 U	41.8	84	54-121

Volatile
Quality Control Summary
Spike Recovery Report

SDG Number: 10-1567

Sample Type: Post Spike

Client ID: RE15-10-8304PS

Matrix: R

Lab Sample ID: 1202040702

%Moisture: 20.3

Instrument: VOA7.I

Analysis Date: 02/12/2010 21:16

Dilution: 1

Analyst: AXO1

Pren Batch ID: 952148

Purge Vol: 5 mL

Batch ID: 952150

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 40.5	81	58-120
79-01-6	PS Trichloroethylene	50.0	0.00	U 39.5	79	54-130
78-87-5	PS 1,2-Dichloropropane	50.0	0.00	U 43.6	87	59-121
75-27-4	PS Bromodichloromethane	50.0	0.00	U 38.9	78	57-130
74-95-3	PS Dibromomethane	50.0	0.00	U 40.9	82	57-124
108-10-1	PS 4-Methyl-2-pentanone	250	0.00	U 218	87	40-137
10061-01-5	PS cis-1,3-Dichloropropylene	50.0	0.00	U 33.7	67	50-131
108-88-3	PS Toluene	50.0	0.00	U 45.0	90	54-119
10061-02-6	PS trans-1,3-Dichloropropylene	50.0	0.00	U 38.8	78	47-133
79-00-5	PS 1,1,2-Trichloroethane	50.0	0.00	U 45.4	91	60-130
591-78-6	PS 2-Hexanone	250	0.00	U 129	51	30-139
142-28-9	PS 1,3-Dichloropropane	50.0	0.00	U 45.1	90	59-125
127-18-4	PS Tetrachloroethylene	50.0	0.00	U 41.1	82	50-126
124-48-1	PS Dibromochloromethane	50.0	0.00	U 39.8	80	54-131
106-93-4	PS 1,2-Dibromoethane	50.0	0.00	U 39.8	80	55-127
108-90-7	PS Chlorobenzene	50.0	0.00	U 41.5	83	50-130
100-41-4	PS Ethylbenzene	50.0	0.00	U 40.7	81	50-121
179601-23-1	PS m,p-Xylenes	100	0.00	U 83.8	84	47-125
95-47-6	PS o-Xylene	50.0	0.00	U 43.2	86	51-127
100-42-5	PS Styrene	50.0	0.00	U 37.5	75	41-136
75-25-2	PS Bromoform	50.0	0.00	U 46.9	94	48-143
79-34-5	PS 1,1,2,2-Tetrachloroethane	50.0	0.00	U 52.4	105	52-129

Volatile
Quality Control Summary
Spike Recovery Report

Page 3 of 6

SDG Number: 10-1567

Sample Type: Post Spike

Client ID: RE15-10-8304PS

Matrix: R

Lab Sample ID: 1202040702

%Moisture: 20.3

Instrument: VOA7.I

Analysis Date: 02/12/2010 21:16

Dilution: 1

Analyst: AXO1

Pren Batch II 952148

Purge Vol: 5 mL

Batch ID: 952150

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 48.7	97	56-139
108-86-1	PS Bromobenzene	50.0	0.00	U 44.1	88	54-125
103-65-1	PS n-Propylbenzene	50.0	0.00	U 48.4	97	46-127
95-49-8	PS 2-Chlorotoluene	50.0	0.00	U 48.4	97	47-130
98-82-8	PS Isopropylbenzene	50.0	0.00	U 53.9	108	42-126
108-67-8	PS 1,3,5-Trimethylbenzene	50.0	0.00	U 52.9	106	44-132
106-43-4	PS 4-Chlorotoluene	50.0	0.00	U 41.3	83	46-127
98-06-6	PS tert-Butylbenzene	50.0	0.00	U 52.6	105	48-136
95-63-6	PS 1,2,4-Trimethylbenzene	50.0	0.00	U 47.1	94	42-132
135-98-8	PS sec-Butylbenzene	50.0	0.00	U 50.8	102	47-130
99-87-6	PS 4-Isopropyltoluene	50.0	0.00	U 30.0	60	36-142
541-73-1	PS 1,3-Dichlorobenzene	50.0	0.00	U 38.7	77	41-130
106-46-7	PS 1,4-Dichlorobenzene	50.0	0.00	U 39.3	79	41-126
104-51-8	PS n-Butylbenzene	50.0	0.00	U 43.2	86	37-136
96-12-8	PS 1,2-Dibromo-3-chloropropane	50.0	0.00	U 45.5	91	42-143
630-20-6	PS 1,1,1,2-Tetrachloroethane	50.0	0.00	U 44.9	90	58-127
95-50-1	PS 1,2-Dichlorobenzene	50.0	0.00	U 38.3	77	42-128

Volatile

Page 4 of 6

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1567

Sample Type: Post Spike Duplicate

Client ID: RE15-10-8304PSD

Matrix: R

Lab Sample ID: 1202040703

%Moisture: 20.3

Instrument: VOA7.I

Analysis Date: 02/12/2010 21:51

Dilution: 1

Analyst: AXO1

Prep Batch ID: 952148

Purge Vol: 5 mL

Batch ID: 952150

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 36.4	73	39-148	1	0-19
74-87-3	PSD Chloromethane	50.0	0.00	U 46.3	93	42-131	2	0-23
75-01-4	PSD Vinyl chloride	50.0	0.00	U 54.8	110	50-127	4	0-23
74-83-9	PSD Bromomethane	50.0	0.00	U 43.8	88	26-135	8	0-22
75-00-3	PSD Chloroethane	50.0	0.00	U 42.1	84	54-128	4	0-25
75-69-4	PSD Trichlorofluoromethane	50.0	0.00	U 38.7	77	55-138	1	0-21
67-64-1	PSD Acetone	250	0.00	U 66.9	27	20-144	17	0-22
75-35-4	PSD 1,1-Dichloroethylene	50.0	0.00	U 38.8	78	55-128	3	0-20
74-88-4	PSD Iodomethane	250	0.00	U 160	64	47-132	10	0-20
75-09-2	PSD Methylene chloride	50.0	0.00	U 43.9	88	56-123	3	0-20
75-15-0	PSD Carbon disulfide	250	0.00	U 197	79	53-133	8	0-22
156-60-5	PSD trans-1,2-Dichloroethylene	50.0	0.00	U 38.2	76	57-119	7	0-20
75-34-3	PSD 1,1-Dichloroethane	50.0	0.00	U 41.7	83	62-125	2	0-20
78-93-3	PSD 2-Butanone	250	0.00	U 101	41	30-150	16	0-21
156-59-2	PSD cis-1,2-Dichloroethylene	50.0	0.00	U 39.8	80	60-124	6	0-20
594-20-7	PSD 2,2-Dichloropropane	50.0	0.00	U 43.7	87	56-129	2	0-20
67-66-3	PSD Chloroform	50.0	0.00	U 38.5	77	62-120	2	0-25
74-97-5	PSD Bromochloromethane	50.0	0.00	U 40.3	81	51-135	6	0-20
71-55-6	PSD 1,1,1-Trichloroethane	50.0	0.00	U 38.7	77	58-129	1	0-20
563-58-6	PSD 1,1-Dichloropropene	50.0	0.00	U 37.5	75	59-126	6	0-20
56-23-5	PSD Carbon tetrachloride	50.0	0.00	U 36.8	74	55-132	5	0-20
107-06-2	PSD 1,2-Dichloroethane	50.0	0.00	U 39.2	78	54-121	6	0-20

Volatile
Quality Control Summary
Spike Recovery Report

Page 5 of 6

SDG Number: 10-1567

Sample Type: Post Spike Duplicate

Client ID: RE15-10-8304PSD

Matrix: R

Lab Sample ID: 1202040703

%Moisture: 20.3

Instrument: VOA7.I

Analysis Date: 02/12/2010 21:51

Dilution: 1

Analyst: AXO1

Pren Batch II 952148

Purge Vol: 5 mL

Batch ID: 952150

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	38.4	77	58-120	5	0-20
79-01-6	PSD Trichloroethylene	50.0	0.00 U	36.8	74	54-130	7	0-23
78-87-5	PSD 1,2-Dichloropropane	50.0	0.00 U	41.9	84	59-121	4	0-20
75-27-4	PSD Bromodichloromethane	50.0	0.00 U	37.2	74	57-130	5	0-20
74-95-3	PSD Dibromomethane	50.0	0.00 U	37.5	75	57-124	9	0-20
108-10-1	PSD 4-Methyl-2-pentanone	250	0.00 U	202	81	40-137	8	0-25
10061-01-5	PSD cis-1,3-Dichloropropylene	50.0	0.00 U	29.2	58	50-131	14	0-20
108-88-3	PSD Toluene	50.0	0.00 U	43.1	86	54-119	4	0-23
10061-02-6	PSD trans-1,3-Dichloropropylene	50.0	0.00 U	34.1	68	47-133	13	0-24
79-00-5	PSD 1,1,2-Trichloroethane	50.0	0.00 U	43.3	87	60-130	5	0-20
591-78-6	PSD 2-Hexanone	250	0.00 U	107	43	30-139	19	0-21
142-28-9	PSD 1,3-Dichloropropane	50.0	0.00 U	43.3	87	59-125	4	0-20
127-18-4	PSD Tetrachloroethylene	50.0	0.00 U	39.8	80	50-126	3	0-20
124-48-1	PSD Dibromochloromethane	50.0	0.00 U	38.4	77	54-131	3	0-23
106-93-4	PSD 1,2-Dibromoethane	50.0	0.00 U	35.8	72	55-127	11	0-23
108-90-7	PSD Chlorobenzene	50.0	0.00 U	37.8	76	50-130	9	0-24
100-41-4	PSD Ethylbenzene	50.0	0.00 U	39.1	78	50-121	4	0-24
179601-23-1	PSD m,p-Xylenes	100	0.00 U	76.8	77	47-125	9	0-25
95-47-6	PSD o-Xylene	50.0	0.00 U	41.2	82	51-127	5	0-24
100-42-5	PSD Styrene	50.0	0.00 U	32.8	66	41-136	13	0-24
75-25-2	PSD Bromoform	50.0	0.00 U	44.0	88	48-143	6	0-20
79-34-5	PSD 1,1,2,2-Tetrachloroethane	50.0	0.00 U	51.4	103	52-129	2	0-20

Volatile
Quality Control Summary
Spike Recovery Report

Page 6 of 6

SDG Number: 10-1567

Sample Type: Post Spike Duplicate

Client ID: RE15-10-8304PSD

Matrix: R

Lab Sample ID: 1202040703

% Moisture: 20.3

Instrument: VOA7.I

Analysis Date: 02/12/2010 21:51

Dilution: 1

Analyst: AXO1

Pren Batch ID: 952148

Purge Vol: 5 mL

Batch ID: 952150

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 46.6	93	56-139	4	0-34
108-86-1	PSD Bromobenzene	50.0	0.00	U 40.1	80	54-125	9	0-22
103-65-1	PSD n-Propylbenzene	50.0	0.00	U 47.7	95	46-127	2	0-25
95-49-8	PSD 2-Chlorotoluene	50.0	0.00	U 47.1	94	47-130	3	0-24
98-82-8	PSD Isopropylbenzene	50.0	0.00	U 53.7	107	42-126	0	0-22
108-67-8	PSD 1,3,5-Trimethylbenzene	50.0	0.00	U 51.5	103	44-132	3	0-25
106-43-4	PSD 4-Chlorotoluene	50.0	0.00	U 38.6	77	46-127	7	0-26
98-06-6	PSD tert-Butylbenzene	50.0	0.00	U 50.9	102	48-136	3	0-24
95-63-6	PSD 1,2,4-Trimethylbenzene	50.0	0.00	U 44.2	88	42-132	6	0-26
135-98-8	PSD sec-Butylbenzene	50.0	0.00	U 48.7	97	47-130	4	0-27
99-87-6	PSD 4-Isopropyltoluene	50.0	0.00	U 24.5	49	36-142	20	0-27
541-73-1	PSD 1,3-Dichlorobenzene	50.0	0.00	U 33.6	67	41-130	14	0-25
106-46-7	PSD 1,4-Dichlorobenzene	50.0	0.00	U 33.9	68	41-126	15	0-25
104-51-8	PSD n-Butylbenzene	50.0	0.00	U 39.3	79	37-136	9	0-29
96-12-8	PSD 1,2-Dibromo-3-chloropropane	50.0	0.00	U 37.6	75	42-143	19	0-21
630-20-6	PSD 1,1,1,2-Tetrachloroethane	50.0	0.00	U 42.9	86	58-127	4	0-20
95-50-1	PSD 1,2-Dichlorobenzene	50.0	0.00	U 33.0	66	42-128	15	0-24

Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 3

SDG Number: 10-1567

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 952148

Matrix: SOIL

Lab Sample ID: J202040704

Instrument: VOA7.I

Analysis Date: 02/11/2010 23:21

Dilution: 1

Analyst: AXO1

Pren Batch ID: 952148

Purge Vol: 5 mL

Batch ID: 952150

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	31.5	63	52-151
74-87-3	LCS Chloromethane	50.0	0.0	36.4	73	56-130
75-01-4	LCS Vinyl chloride	50.0	0.0	41.9	84	66-130
74-83-9	LCS Bromomethane	50.0	0.0	44.3	89	70-126
75-00-3	LCS Chloroethane	50.0	0.0	40.8	82	67-129
75-69-4	LCS Trichlorofluoromethane	50.0	0.0	40.8	82	73-143
67-64-1	LCS Acetone	250	0.0	180	72	30-140
75-35-4	LCS 1,1-Dichloroethylene	50.0	0.0	39.7	79	71-129
74-88-4	LCS Iodomethane	250	0.0	195	78	72-125
75-09-2	LCS Methylene chloride	50.0	0.0	44.1	88	64-121
75-15-0	LCS Carbon disulfide	250	0.0	205	82	70-133
156-60-5	LCS trans-1,2-Dichloroethylene	50.0	0.0	40.7	81	73-120
75-34-3	LCS 1,1-Dichloroethane	50.0	0.0	42.6	85	73-120
78-93-3	LCS 2-Butanone	250	0.0	179	71	32-145
156-59-2	LCS cis-1,2-Dichloroethylene	50.0	0.0	41.1	82	74-124
594-20-7	LCS 2,2-Dichloropropane	50.0	0.0	45.6	91	73-134
67-66-3	LCS Chloroform	50.0	0.0	40.9	82	74-120
74-97-5	LCS Bromochloromethane	50.0	0.0	42.1	84	73-122
71-55-6	LCS 1,1,1-Trichloroethane	50.0	0.0	41.2	82	74-132
563-58-6	LCS 1,1-Dichloropropene	50.0	0.0	40.6	81	79-128
56-23-5	LCS Carbon tetrachloride	50.0	0.0	40.6	81	75-135
107-06-2	LCS 1,2-Dichloroethane	50.0	0.0	42.0	84	65-120

Volatile
Quality Control Summary
Spike Recovery Report

SDG Number: 10-1567

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 952148

Matrix: SOIL

Lab Sample ID: 1202040704

Instrument: VOA7.I

Analysis Date: 02/11/2010 23:21

Dilution: 1

Analyst: AXO1

Prep Batch ID: 952148

Purge Vol: 5 mL

Batch ID: 952150

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	39.4	79	74-120
79-01-6	LCS Trichloroethylene	50.0	0.0	43.0	86	77-124
78-87-5	LCS 1,2-Dichloropropane	50.0	0.0	41.5	83	73-120
75-27-4	LCS Bromodichloromethane	50.0	0.0	40.8	82	75-128
74-95-3	LCS Dibromomethane	50.0	0.0	43.7	87	75-120
108-10-1	LCS 4-Methyl-2-pentanone	250	0.0	228	91	63-133
10061-01-5	LCS cis-1,3-Dichloropropylene	50.0	0.0	40.4	81	78-127
108-88-3	LCS Toluene	50.0	0.0	44.3	89	74-120
10061-02-6	LCS trans-1,3-Dichloropropylene	50.0	0.0	47.9	96	70-125
79-00-5	LCS 1,1,2-Trichloroethane	50.0	0.0	45.3	91	75-120
591-78-6	LCS 2-Hexanone	250	0.0	168	67	40-153
142-28-9	LCS 1,3-Dichloropropane	50.0	0.0	44.0	88	73-120
127-18-4	LCS Tetrachloroethylene	50.0	0.0	41.4	83	72-126
124-48-1	LCS Dibromochloromethane	50.0	0.0	45.0	90	74-126
106-93-4	LCS 1,2-Dibromoethane	50.0	0.0	45.1	90	79-120
108-90-7	LCS Chlorobenzene	50.0	0.0	44.7	89	76-120
100-41-4	LCS Ethylbenzene	50.0	0.0	40.7	81	74-120
179601-23-1	LCS m,p-Xylenes	100	0.0	85.8	86	76-120
95-47-6	LCS o-Xylene	50.0	0.0	43.5	87	76-122
100-42-5	LCS Styrene	50.0	0.0	43.2	86	75-125
75-25-2	LCS Bromoform	50.0	0.0	47.8	96	68-135
79-34-5	LCS 1,1,2,2-Tetrachloroethane	50.0	0.0	46.5	93	72-122

Volatile
Quality Control Summary
Spike Recovery Report

Page 3 of 3

SDG Number: 10-1567

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 952148

Matrix: SOIL

Lab Sample ID: 1202040704

Instrument: VOA7.I

Analysis Date: 02/11/2010 23:21

Dilution: 1

Analyst: AXO1

Pren Batch II 952148

Purge Vol: 5 mL

Batch ID: 952150

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	48.0	96	72-129
108-86-1	LCS Bromobenzene	50.0	0.0	44.4	89	74-120
103-65-1	LCS n-Propylbenzene	50.0	0.0	42.8	86	70-120
95-49-8	LCS 2-Chlorotoluene	50.0	0.0	43.0	86	70-120
98-82-8	LCS Isopropylbenzene	50.0	0.0	44.5	89	60-121
108-67-8	LCS 1,3,5-Trimethylbenzene	50.0	0.0	45.8	92	71-121
106-43-4	LCS 4-Chlorotoluene	50.0	0.0	44.6	89	71-120
98-06-6	LCS tert-Butylbenzene	50.0	0.0	45.1	90	75-123
95-63-6	LCS 1,2,4-Trimethylbenzene	50.0	0.0	45.2	90	73-120
135-98-8	LCS sec-Butylbenzene	50.0	0.0	44.7	89	74-123
99-87-6	LCS 4-Isopropyltoluene	50.0	0.0	44.8	90	76-127
541-73-1	LCS 1,3-Dichlorobenzene	50.0	0.0	43.1	86	75-120
106-46-7	LCS 1,4-Dichlorobenzene	50.0	0.0	44.2	88	73-120
104-51-8	LCS n-Butylbenzene	50.0	0.0	45.5	91	73-128
96-12-8	LCS 1,2-Dibromo-3-chloropropane	50.0	0.0	51.4	103	69-136
630-20-6	LCS 1,1,1,2-Tetrachloroethane	50.0	0.0	45.6	91	75-124
95-50-1	LCS 1,2-Dichlorobenzene	50.0	0.0	44.4	89	75-120

Volatile

Page 1 of 1

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1567

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 952148

Matrix: SOIL

Lab Sample ID: 1202040705

Instrument: VOA7.I

Analysis Date: 02/12/2010 00:33

Dilution: 1

Analyst: AXO1

Prep Batch ID: 952148

Purge Vol: 5 mL

Batch ID: 952150

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	229	91	67-140

Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 3

SDG Number: 10-1567

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 952148

Matrix: SOIL

Lab Sample ID: 1202049552

Instrument: VOA7.I

Analysis Date: 02/12/2010 15:26

Dilution: 1

Analyst: AXO1

Pre Batch II 952148

Purge Vol: 5 mL

Batch ID: 952150

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	48.2	96	52-151
74-87-3	LCS Chloromethane	50.0	0.0	46.9	94	56-130
75-01-4	LCS Vinyl chloride	50.0	0.0	55.4	111	66-130
74-83-9	LCS Bromomethane	50.0	0.0	51.8	104	70-126
75-00-3	LCS Chloroethane	50.0	0.0	47.4	95	67-129
75-69-4	LCS Trichlorofluoromethane	50.0	0.0	48.4	97	73-143
67-64-1	LCS Acetone	250	0.0	231	92	30-140
75-35-4	LCS 1,1-Dichloroethylene	50.0	0.0	46.5	93	71-129
74-88-4	LCS Iodomethane	250	0.0	212	85	72-125
75-09-2	LCS Methylene chloride	50.0	0.0	44.4	89	64-121
75-15-0	LCS Carbon disulfide	250	0.0	237	95	70-133
156-60-5	LCS trans-1,2-Dichloroethylene	50.0	0.0	46.0	92	73-120
75-34-3	LCS 1,1-Dichloroethane	50.0	0.0	46.0	92	73-120
78-93-3	LCS 2-Butanone	250	0.0	227	91	32-145
156-59-2	LCS cis-1,2-Dichloroethylene	50.0	0.0	45.1	90	74-124
594-20-7	LCS 2,2-Dichloropropane	50.0	0.0	59.8	120	73-134
67-66-3	LCS Chloroform	50.0	0.0	43.3	87	74-120
74-97-5	LCS Bromochloromethane	50.0	0.0	44.0	88	73-122
71-55-6	LCS 1,1,1-Trichloroethane	50.0	0.0	48.2	96	74-132
563-58-6	LCS 1,1-Dichloropropene	50.0	0.0	47.4	95	79-128
56-23-5	LCS Carbon tetrachloride	50.0	0.0	47.4	95	75-135
107-06-2	LCS 1,2-Dichloroethane	50.0	0.0	44.1	88	65-120

Volatile
Quality Control Summary
Spike Recovery Report

SDG Number: 10-1567

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 952148

Matrix: SOIL

Lab Sample ID:1202049552

Instrument: VOA7.I

Analysis Date: 02/12/2010 15:26

Dilution: 1

Analyst: AXO1

Pren Batch II 952148

Purge Vol: 5 mL

Batch ID: 952150

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	43.7	87	74-120
79-01-6	LCS Trichloroethylene	50.0	0.0	47.2	94	77-124
78-87-5	LCS 1,2-Dichloropropane	50.0	0.0	44.3	89	73-120
75-27-4	LCS Bromodichloromethane	50.0	0.0	42.4	85	75-128
74-95-3	LCS Dibromomethane	50.0	0.0	44.3	89	75-120
108-10-1	LCS 4-Methyl-2-pentanone	250	0.0	253	101	63-133
10061-01-5	LCS cis-1,3-Dichloropropylene	50.0	0.0	42.0	84	78-127
108-88-3	LCS Toluene	50.0	0.0	49.7	99	74-120
10061-02-6	LCS trans-1,3-Dichloropropylene	50.0	0.0	49.8	100	70-125
79-00-5	LCS 1,1,2-Trichloroethane	50.0	0.0	47.3	95	75-120
591-78-6	LCS 2-Hexanone	250	0.0	209	84	40-153
142-28-9	LCS 1,3-Dichloropropane	50.0	0.0	45.9	92	73-120
127-18-4	LCS Tetrachloroethylene	50.0	0.0	49.3	99	72-126
124-48-1	LCS Dibromochloromethane	50.0	0.0	46.1	92	74-126
106-93-4	LCS 1,2-Dibromoethane	50.0	0.0	46.4	93	79-120
108-90-7	LCS Chlorobenzene	50.0	0.0	48.3	97	76-120
100-41-4	LCS Ethylbenzene	50.0	0.0	46.5	93	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	49.0	98	76-122
100-42-5	LCS Styrene	50.0	0.0	48.0	96	75-125
75-25-2	LCS Bromoform	50.0	0.0	48.9	98	68-135
79-34-5	LCS 1,1,2,2-Tetrachloroethane	50.0	0.0	49.4	99	72-122

Volatile
Quality Control Summary
Spike Recovery Report

Page 3 of 3

SDG Number: 10-1567

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 952148

Matrix: SOIL

Lab Sample ID: 1202049552

Instrument: VOA7.I

Analysis Date: 02/12/2010 15:26

Dilution: 1

Analyst: AXO1

Pred Batch II 952148

Purge Vol: 5 mL

Batch ID: 952150

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	48.7	97	72-129
108-86-1	LCS Bromobenzene	50.0	0.0	46.7	93	74-120
103-65-1	LCS n-Propylbenzene	50.0	0.0	49.2	98	70-120
95-49-8	LCS 2-Chlorotoluene	50.0	0.0	48.8	98	70-120
98-82-8	LCS Isopropylbenzene	50.0	0.0	51.4	103	60-121
108-67-8	LCS 1,3,5-Trimethylbenzene	50.0	0.0	52.3	105	71-121
106-43-4	LCS 4-Chlorotoluene	50.0	0.0	48.7	97	71-120
98-06-6	LCS tert-Butylbenzene	50.0	0.0	51.7	103	75-123
95-63-6	LCS 1,2,4-Trimethylbenzene	50.0	0.0	49.4	99	73-120
135-98-8	LCS sec-Butylbenzene	50.0	0.0	52.5	105	74-123
99-87-6	LCS 4-Isopropyltoluene	50.0	0.0	52.3	105	76-127
541-73-1	LCS 1,3-Dichlorobenzene	50.0	0.0	47.3	95	75-120
106-46-7	LCS 1,4-Dichlorobenzene	50.0	0.0	49.1	98	73-120
104-51-8	LCS n-Butylbenzene	50.0	0.0	53.0	106	73-128
96-12-8	LCS 1,2-Dibromo-3-chloropropane	50.0	0.0	52.3	105	69-136
630-20-6	LCS 1,1,1,2-Tetrachloroethane	50.0	0.0	48.3	97	75-124
95-50-1	LCS 1,2-Dichlorobenzene	50.0	0.0	46.8	94	75-120

Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 1

SDG Number: 10-1567

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 952148

Matrix: SOIL

Lab Sample ID:1202049553

Instrument: VOA7.I

Analysis Date: 02/12/2010 16:01

Dilution: 1

Analyst: AXO1

Prep Batch ID: 952148

Purge Vol: 5 mL

Batch ID: 952150

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	199	80	67-140

Method Blank Summary

Page 1 of 1

SDG Number:	10-1567	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 952148	Instrument ID:	VOA7.I	Data File:	7y430BL.d
Lab Sample ID:	1202040701	Prep Date:	02/11/2010 15:00	Analyzed:	02/12/10 01:42
Column:	DB-624	Heated Purge:	Yes		

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 952148	1202040704	7y426LL.d	02/11/10	2321
02 LCS for batch 952148	1202040705	7y428LL.d	02/12/10	0033
03 RE15-10-8332	246330001	7y431.d	02/12/10	0217
04 RE15-10-8305	246330003	7y433.d	02/12/10	0328
05 RE15-10-8306	246330004	7y434.d	02/12/10	0403
06 RE15-10-8307	246330005	7y435.d	02/12/10	0437
07 RE15-10-8309	246330006	7y436.d	02/12/10	0511
08 RE15-10-8308	246330007	7y437.d	02/12/10	0546
09 RE15-10-8301	246330008	7y438.d	02/12/10	0622
10 RE15-10-8300	246330009	7y439.d	02/12/10	0657

Method Blank Summary

Page 1 of 1

SDG Number:	10-1567	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 952148	Instrument ID:	VOA7.I	Data File:	7y510LL.d
Lab Sample ID:	1202049551	Prep Date:	02/12/2010 10:00	Analyzed:	02/12/10 17:10
Column:	DB-624	Heated Purge:	Yes		

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 952148	1202049552	7y507LL.d	02/12/10	1526
02 LCS for batch 952148	1202049553	7y508LL.d	02/12/10	1601
03 RE15-10-8304	246330002	7y511.d	02/12/10	1745
04 RE15-10-8324	246330010	7y513.d	02/12/10	1856
05 RE15-10-8304PS	1202040702	7y517.d	02/12/10	2116
06 RE15-10-8304PSD	1202040703	7y518.d	02/12/10	2151

Instrument Performance Check

BFB

Lab Name GEL Laboratories LLC

Client SDG: 10-1567

Instrument ID: VOA7.I

Injection Date/Time: 02-FEB-10 15:44

Column Description: db624

Lab File ID /020210v7/7x201.d

m/e	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% Relative Abundance	100
50	15.0 - 40.0% of mass 95	25.3
75	30.0 - 60.0% of mass 95	50.4
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.5
174	50.0 - 100.0% of mass 95	65.9
175	5.0 - 9.0% of mass 174	7.1
176	95.0 - 101.0% of mass 174	97.8
177	5.0 - 9.0% of mass 176	6.9

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
VSTD001	W7VM100202-01	7x202.d	02-FEB-10 16:19
VSTD002	W7VM100202-02	7x203.d	02-FEB-10 16:53
VSTD005	W7VM100202-03	7x204.d	02-FEB-10 17:27
VSTD010	W7VM100202-04	7x205.d	02-FEB-10 18:00
VSTD020	W7VM100202-05	7x206.d	02-FEB-10 18:34
VSTD050	W7VM100202-06	7x207.d	02-FEB-10 19:08
VSTD100	W7VM100202-07	7x208.d	02-FEB-10 19:43
VSTD0005	W7VM100202-08	7x210.d	02-FEB-10 20:54
VSTD005	W7VM100202-09	7x211.d	02-FEB-10 21:29
VSTD010	W7VM100202-10	7x212.d	02-FEB-10 22:03
VSTD025	W7VM100202-11	7x213.d	02-FEB-10 22:39
VSTD050	W7VM100202-12	7x214.d	02-FEB-10 23:14
VSTD100	W7VM100202-13	7x215.d	02-FEB-10 23:49
VSTD250	W7VM100202-14	7x216.d	03-FEB-10 00:25
VSTD500	W7VM100202-15	7x217.d	03-FEB-10 01:00
ICV	W7VM100202-17	7x220.d	03-FEB-10 02:43
SICV	W7VM100202-18	7x221.d	03-FEB-10 03:18

Instrument Performance Check

BFB

Lab Name GEL Laboratories LLC

Client SDG: 10-1567

Instrument ID: VOA7.I

Injection Date/Time: 11-FEB-10 22:10

Column Description: db624

Lab File ID /021110v7/7y424BFB.d

m/e	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% Relative Abundance	100
50	15.0 - 40.0% of mass 95	27.6
75	30.0 - 60.0% of mass 95	53.2
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.5
174	50.0 - 100.0% of mass 95	61.6
175	5.0 - 9.0% of mass 174	7
176	95.0 - 101.0% of mass 174	98.4
177	5.0 - 9.0% of mass 176	6.8

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
VSTD050	W7VM100211-06	7y424.d	11-FEB-10 22:10
LCS	1202040704	7y426LL.d	11-FEB-10 23:21
VSTD250S	W7VM100211-09	7y427.d	11-FEB-10 23:57
SLCS	1202040705	7y428LL.d	12-FEB-10 00:33
BLANK	1202040701	7y430BL.d	12-FEB-10 01:42
RE15-10-8332	246330001	7y431.d	12-FEB-10 02:17
RE15-10-8305	246330003	7y433.d	12-FEB-10 03:28
RE15-10-8306	246330004	7y434.d	12-FEB-10 04:03
RE15-10-8307	246330005	7y435.d	12-FEB-10 04:37
RE15-10-8309	246330006	7y436.d	12-FEB-10 05:11
RE15-10-8308	246330007	7y437.d	12-FEB-10 05:46
RE15-10-8301	246330008	7y438.d	12-FEB-10 06:22
RE15-10-8300	246330009	7y439.d	12-FEB-10 06:57

Instrument Performance Check

BFB

Lab Name GEL Laboratories LLC

Client SDG: 10-1567

Instrument ID: VOA7.I

Injection Date/Time: 12-FEB-10 12:35

Column Description: db624

Lab File ID /021210v7/7y502BFB.d

m/e	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% Relative Abundance	100
50	15.0 - 40.0% of mass 95	28.3
75	30.0 - 60.0% of mass 95	52.4
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.4
174	50.0 - 100.0% of mass 95	61.6
175	5.0 - 9.0% of mass 174	7.3
176	95.0 - 101.0% of mass 174	97.8
177	5.0 - 9.0% of mass 176	6.7

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
VSTD050	W7VM100212-01	7y502.d	12-FEB-10 12:35
VSTD250S	W7VM100212-04	7y505.d	12-FEB-10 14:17
LCS	1202049552	7y507LL.d	12-FEB-10 15:26
SLCS	1202049553	7y508LL.d	12-FEB-10 16:01
BLANK	1202049551	7y510LL.d	12-FEB-10 17:10
RE15-10-8304	246330002	7y511.d	12-FEB-10 17:45
RE15-10-8324	246330010	7y513.d	12-FEB-10 18:56
RE15-10-8304MS	1202040702	7y517.d	12-FEB-10 21:16
RE15-10-8304MSD	1202040703	7y518.d	12-FEB-10 21:51

Internal Standard Area and RT Summary

Lab Name : GEL Laboratories LLC

Client SDG: 10-1567

Instrument: VOA7.1

STD Analysis Time: 11-FEB-10 22:10

GC Column: DB-624

Data File: 7y424.d

	Fluorobenzene			Chlorobenzene-d5			1,4-Dichlorobenzene-d4		
	Area	#	RT #	Area	#	RT #	Area	#	RT #
12 Hour STD	1004230		15.3	708184		18.7	348392		21.0
Upper Limit	2008460		15.8	1416368		19.2	696784		21.5
Lower Limit	502115		14.8	354092		18.2	174196		20.5
Sample ID									
BLK01LCS	1027488		15.3	725475		18.7	358906		21.0
BLK01SLCS	1070139		15.3	710173		18.7	359588		21.0
BLK01	982853		15.3	652996		18.7	315322		21.0
RE15-10-8332	948823		15.3	642834		18.7	305934		21.0
RE15-10-8305	733719		15.3	320554 *		18.7	70830 *		21.0
RE15-10-8306	871573		15.3	548929		18.7	197244		21.0
RE15-10-8307	853351		15.3	528928		18.7	192003		21.0
RE15-10-8309	832291		15.3	562166		18.7	253359		21.0
RE15-10-8308	818763		15.3	519431		18.7	213543		21.0
RE15-10-8301	804348		15.3	536106		18.7	239983		21.0
RE15-10-8300	774363		15.3	493035		18.7	200613		21.0

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: 10-1567

Instrument: VOA7.1

STD Analysis Time: 12-FEB-10 12:35

GC Column: DB-624

Data File: 7y502.d

	Fluorobenzene			Chlorobenzene-d5			1,4-Dichlorobenzene-d4		
	Area	#	RT #	Area	#	RT #	Area	#	RT #
12 Hour STD	922112		15.3	653209		18.7	316335		21.0
Upper Limit	1844224		15.8	1306418		19.2	632670		21.5
Lower Limit	461056		14.8	326605		18.2	158168		20.5
Sample ID									
BLK02LCS	963360		15.3	675758		18.7	335870		21.0
BLK02SLCS	991292		15.3	666620		18.7	332195		21.0
BLK02	895882		15.3	608947		18.7	286666		21.0
RE15-10-8304	840730		15.3	538979		18.7	214856		21.0
RE15-10-8324	782132		15.3	488650		18.7	175691		21.0
RE15-10-8304MS	725290		15.3	493009		18.7	199466		21.0
RE15-10-8304MSD	771290		15.3	506147		18.7	192541		21.0

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: 10-1567
Lab Sample ID: 246330009

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 30.6
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.44	ug/kg	0.490	1.44
74-87-3	Chloromethane	U	1.44	ug/kg	0.433	1.44
75-01-4	Vinyl chloride	U	1.44	ug/kg	0.433	1.44
74-83-9	Bromomethane	U	1.44	ug/kg	0.433	1.44
75-00-3	Chloroethane	U	1.44	ug/kg	0.433	1.44
75-69-4	Trichlorofluoromethane	U	1.44	ug/kg	0.433	1.44
67-64-1	Acetone		7.98	ug/kg	2.39	7.21
75-35-4	1,1-Dichloroethylene	U	1.44	ug/kg	0.433	1.44
74-88-4	Iodomethane	U	7.21	ug/kg	2.31	7.21
75-09-2	Methylene chloride	U	7.21	ug/kg	2.88	7.21
75-15-0	Carbon disulfide	U	7.21	ug/kg	1.80	7.21
156-60-5	trans-1,2-Dichloroethylene	U	1.44	ug/kg	0.433	1.44
75-34-3	1,1-Dichloroethane	U	1.44	ug/kg	0.433	1.44
78-93-3	2-Butanone	U	7.21	ug/kg	2.16	7.21
156-59-2	cis-1,2-Dichloroethylene	U	1.44	ug/kg	0.433	1.44
594-20-7	2,2-Dichloropropane	U	1.44	ug/kg	0.433	1.44
67-66-3	Chloroform	U	1.44	ug/kg	0.433	1.44
74-97-5	Bromochloromethane	U	1.44	ug/kg	0.476	1.44
71-55-6	1,1,1-Trichloroethane	U	1.44	ug/kg	0.433	1.44
563-58-6	1,1-Dichloropropene	U	1.44	ug/kg	0.433	1.44
56-23-5	Carbon tetrachloride	U	1.44	ug/kg	0.433	1.44
107-06-2	1,2-Dichloroethane	U	1.44	ug/kg	0.433	1.44
71-43-2	Benzene	U	1.44	ug/kg	0.433	1.44
79-01-6	Trichloroethylene	U	1.44	ug/kg	0.476	1.44
78-87-5	1,2-Dichloropropane	U	1.44	ug/kg	0.433	1.44
75-27-4	Bromodichloromethane	U	1.44	ug/kg	0.433	1.44
74-95-3	Dibromomethane	U	1.44	ug/kg	0.433	1.44
108-10-1	4-Methyl-2-pentanone	U	7.21	ug/kg	1.80	7.21
10061-01-5	cis-1,3-Dichloropropylene	U	1.44	ug/kg	0.433	1.44
108-88-3	Toluene	U	1.44	ug/kg	0.433	1.44
10061-02-6	trans-1,3-Dichloropropylene	U	1.44	ug/kg	0.433	1.44
79-00-5	1,1,2-Trichloroethane	U	1.44	ug/kg	0.433	1.44
591-78-6	2-Hexanone	U	7.21	ug/kg	2.16	7.21
142-28-9	1,3-Dichloropropane	U	1.44	ug/kg	0.433	1.44
127-18-4	Tetrachloroethylene	U	1.44	ug/kg	0.433	1.44
124-48-1	Dibromochloromethane	U	1.44	ug/kg	0.433	1.44
106-93-4	1,2-Dibromoethane	U	1.44	ug/kg	0.433	1.44
108-90-7	Chlorobenzene	U	1.44	ug/kg	0.433	1.44

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 246330009

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7J
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 30.6
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.44	ug/kg	0.433	1.44
179601-23-1	m,p-Xylenes	U	2.88	ug/kg	0.433	2.88
95-47-6	o-Xylene	U	1.44	ug/kg	0.433	1.44
100-42-5	Styrene	U	1.44	ug/kg	0.433	1.44
75-25-2	Bromoform	U	1.44	ug/kg	0.433	1.44
79-34-5	1,1,2,2-Tetrachloroethane	U	1.44	ug/kg	0.433	1.44
96-18-4	1,2,3-Trichloropropane	U	1.44	ug/kg	0.433	1.44
108-86-1	Bromobenzene	U	1.44	ug/kg	0.433	1.44
103-65-1	n-Propylbenzene	U	1.44	ug/kg	0.433	1.44
95-49-8	2-Chlorotoluene	U	1.44	ug/kg	0.433	1.44
98-82-8	Isopropylbenzene	U	1.44	ug/kg	0.433	1.44
108-67-8	1,3,5-Trimethylbenzene	U	1.44	ug/kg	0.433	1.44
106-43-4	4-Chlorotoluene	U	1.44	ug/kg	0.433	1.44
98-06-6	tert-Butylbenzene	U	1.44	ug/kg	0.433	1.44
95-63-6	1,2,4-Trimethylbenzene	U	1.44	ug/kg	0.433	1.44
135-98-8	sec-Butylbenzene	U	1.44	ug/kg	0.433	1.44
99-87-6	4-Isopropyltoluene		16.7	ug/kg	0.433	1.44
541-73-1	1,3-Dichlorobenzene	U	1.44	ug/kg	0.433	1.44
106-46-7	1,4-Dichlorobenzene	U	1.44	ug/kg	0.433	1.44
104-51-8	n-Butylbenzene	U	1.44	ug/kg	0.433	1.44
96-12-8	1,2-Dibromo-3-chloropropane	U	1.44	ug/kg	0.433	1.44
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	7.21	ug/kg	2.31	7.21
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.44	ug/kg	0.433	1.44
95-50-1	1,2-Dichlorobenzene	U	1.44	ug/kg	0.433	1.44

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Alcohol	9.41	10.8	ug/kg		J
	Unknown Hydrocarbon	18.79	15.6	ug/kg		J
	Unknown Hydrocarbon	19.65	12.1	ug/kg		J
	Unknown Hydrocarbon	19.96	55	ug/kg		J
	Unknown Hydrocarbon	21.05	30.7	ug/kg		J
	Unknown Hydrocarbon	23.22	36	ug/kg		J

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021110v7/7y439.d

Lab Smp Id: 246330009

Client Smp ID: RE15-10-8300

Inj Date : 12-FEB-2010 06:57

Operator : AX01

Inst ID: VOA7.i

Smp Info : |246330009|952150|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

Meth Date : 22-Feb-2010 06:38 ale01592 Quant Type: ISTD

Cal Date : 03-FEB-2010 00:25

Cal File: 7x216.d

Als bottle: 39

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1567.sub

Target Version: 3.50

Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	30.64360	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 51 Fluorobenzene	96	15.317	15.317 (1.000)	774363	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667 (1.000)	493035	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991 (1.000)	200613	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880 (0.971)	330930	46.6583	67.3
\$ 64 Toluene-d8	98	17.144	17.134 (0.918)	847145	58.2778	84.0
\$ 86 Bromofluorobenzene	95	19.814	19.814 (0.944)	306679	58.7008	84.6
13 Acetone	43	10.454	10.413 (0.683)	31472	5.53472	8.0
99 4-Isopropyltoluene	119	20.859	20.860 (0.994)	118628	11.5854	16.7

ION RATIO REPORT

VOA REPORT

Data file: 7y439.d

Report Date: 02/12/2010 09:41

Lab. ID: 246330009

SampleType: SAMPLE

Injection Date: 12-FEB-2010 06:57

Operator: AX01

Instrument: VOA7.i

Sample Info: |246330009|952150|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1567

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
13 Acetone		CAS#: 67-64-1				
43	31472	10.45	10.41	80-120	100	()
58	6716	10.46	10.41	0- 58	21	()

63 4-Methyl-2-pentanone		CAS#: 108-10-1				
58	10532	17.13	16.94	80-120	100	(T)
43	7271	17.13	16.94	217-277	69	(QT)
100	560667	17.14	16.94	0- 58	5323	(QT)

78 Ethylbenzene		CAS#: 100-41-4				
91	30749	18.80	18.77	80-120	100	()
106	833	18.79	18.77	2- 62	3	()

82 Bromoform		CAS#: 75-25-2				
173	865	19.81	19.54	80-120	100	(T)
175	13661	19.81	19.54	18- 78	1579	(QT)

91 n-Propylbenzene		CAS#: 103-65-1				
91	64969	19.97	20.03	80-120	100	(T)
120	341	20.24	20.03	0- 52	1	(T)

92 1,3,5-Trimethylbenzene		CAS#: 108-67-8				
105	12440	19.97	20.17	80-120	100	(T)
120	341	20.24	20.17	16- 76	3	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
96	1,2,4-Trimethylbenzene			CAS#: 95-63-6		
105	4969	20.87	20.57	80-120	100	(T)
120	12213	20.86	20.57	18- 78	246	(QT)

95	tert-Butylbenzene			CAS#: 98-06-6		
119	4367	20.24	20.52	80-120	100	(T)
91	2923	20.24	20.52	54-114	67	(T)
134	668	20.24	20.53	0- 52	15	(T)

98	sec-Butylbenzene			CAS#: 135-98-8		
105	4969	20.87	20.75	80-120	100	(T)
134	34165	20.86	20.75	0- 50	688	(QT)

99	4-Isopropyltoluene			CAS#: 99-87-6		
119	118628	20.86	20.86	80-120	100	()
134	34165	20.86	20.86	0- 58	29	()
91	35824	20.86	20.86	0- 60	30	()

104	n-Butylbenzene			CAS#: 104-51-8		
91	6698	21.14	21.30	80-120	100	(T)
92	2865	21.14	21.30	27- 87	43	(T)
134	484	21.14	21.30	0- 54	7	(T)

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/021110v7/7y439.d
Lab Smp Id: 246330009 Client Smp ID: RE15-10-8300
Inj Date : 12-FEB-2010 06:57
Operator : AX01 Inst ID: VOA7.i
Smp Info : |246330009|952150|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m
Meth Date : 22-Feb-2010 06:38 ale01592 Quant Type: ISTD
Cal Date : 03-FEB-2010 00:25 Cal File: 7x216.d
Als bottle: 39
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.sub
Target Version: 3.50
Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M)) * (Vt/Ws) * (Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	30.64360	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 51 Fluorobenzene	15.317	1861004	50.000
* 75 Chlorobenzene-d5	18.667	1892858	50.000
* 101 1,4-Dichlorobenzene-d4	20.991	1509961	50.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ug/l)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ug/l)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Alcohol				CAS #:			
9.408	278606	7.48535961	10.8	0		0	51
Unknown Hydrocarbon				CAS #:			
18.788	409259	10.8106195	15.6	0		0	75
Unknown Hydrocarbon				CAS #:			
19.651	318662	8.41747038	12.1	0		0	75
Unknown Hydrocarbon				CAS #:			
19.956	1151780	38.1393885	55.0	0		0	101
Unknown Hydrocarbon				CAS #:			
21.052	643721	21.3157998	30.7	0		0	101
Unknown Hydrocarbon				CAS #:			
23.225	754761	24.9927233	36.0	0		0	101

Data File: /chem/V007.1/02110v7/7g439.d
Date: 12-FEB-2010 06:57
Client ID: RE15-10-8300
Sample Info: 12463300091952150111V00711

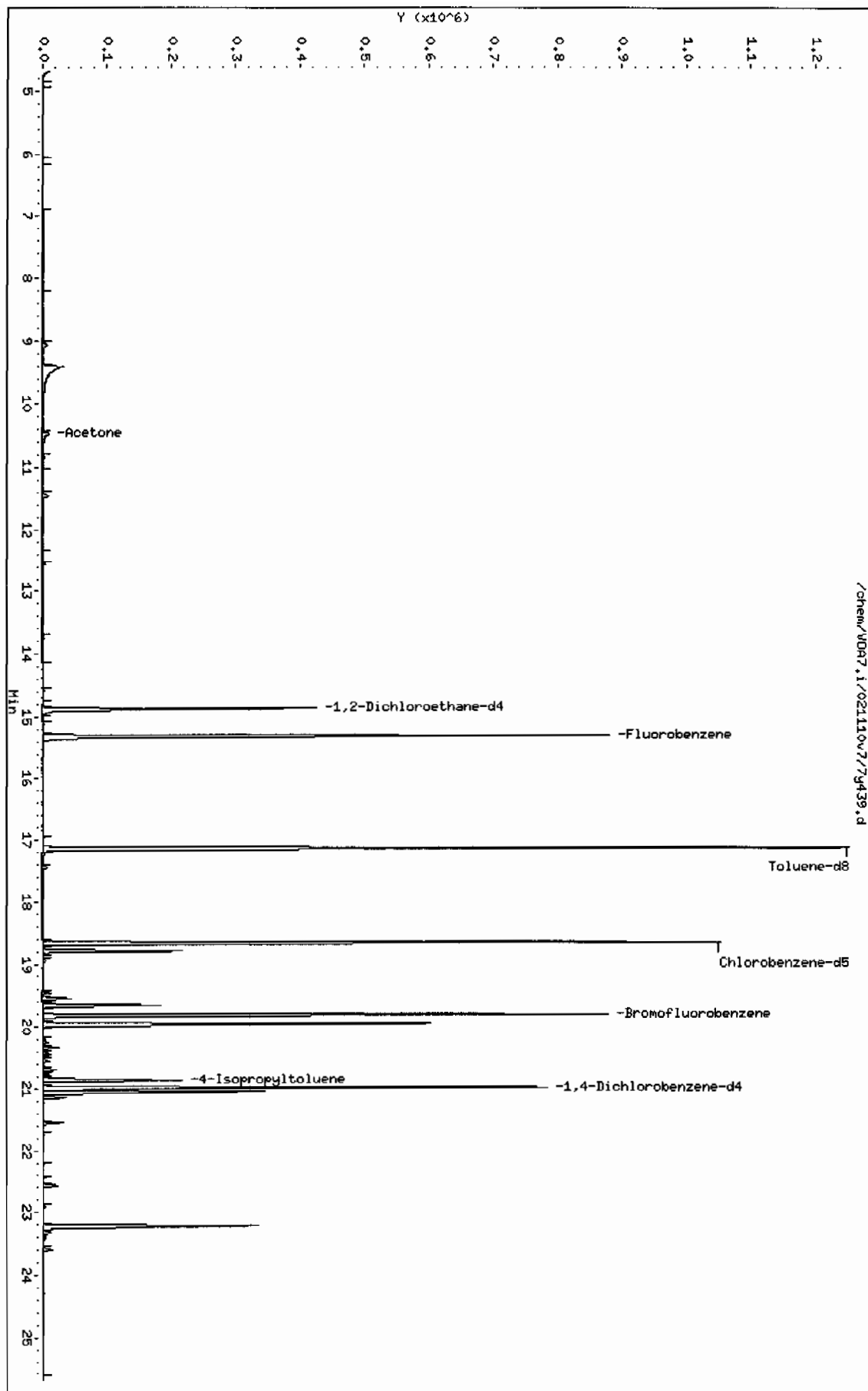
Column phase: DB-624

Instrument: V007.1

Operator: RND1

Column diameter: 0.25

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Date : 12-FEB-2010 06:57

Client ID: RE15-10-8300

Instrument: VOA7.i

Sample Info: 1246330009195215011VOAF111

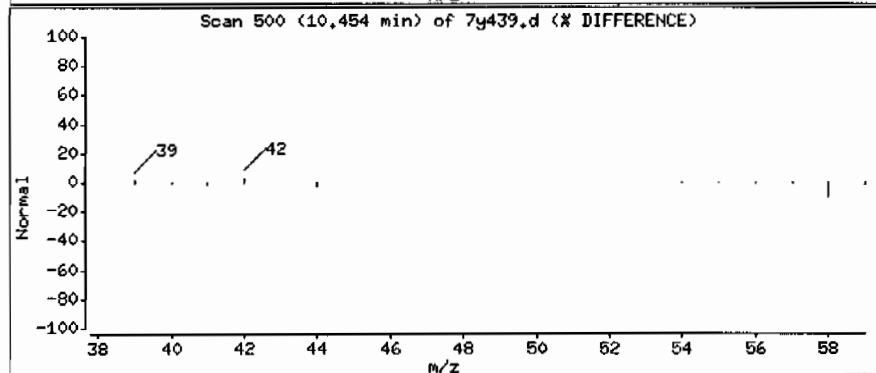
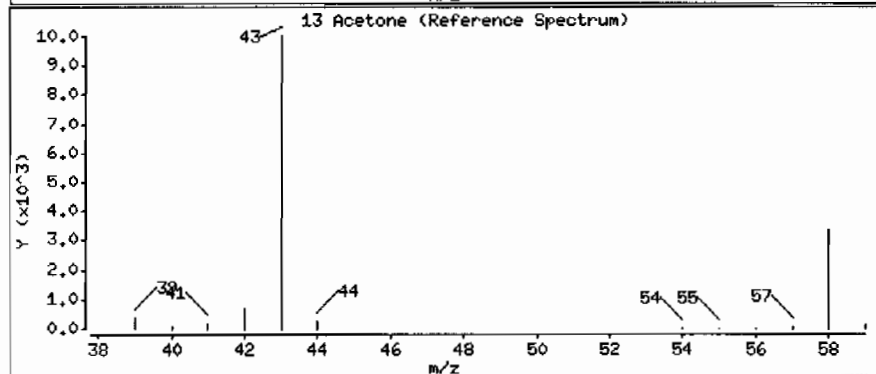
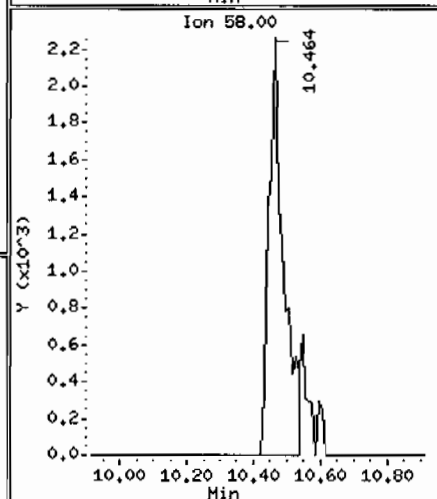
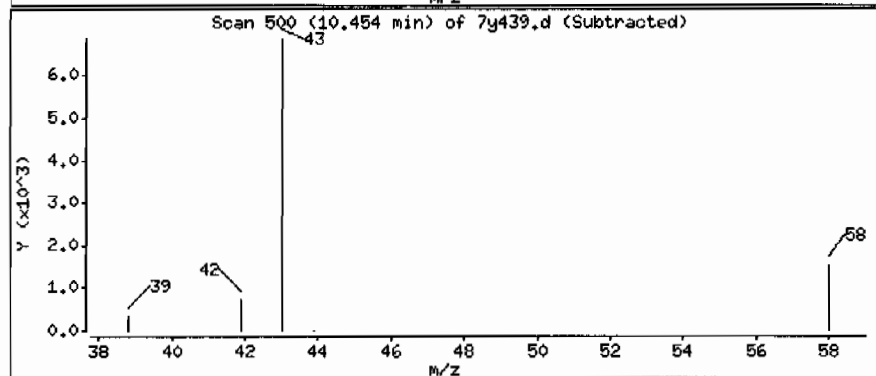
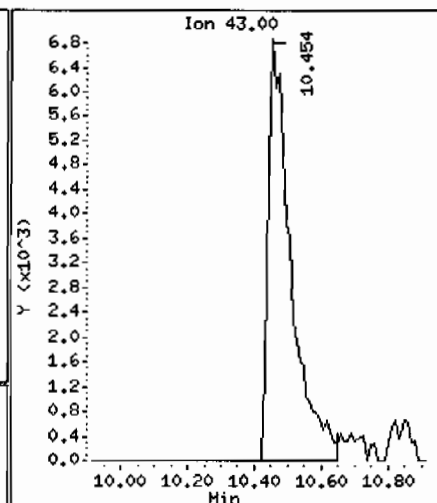
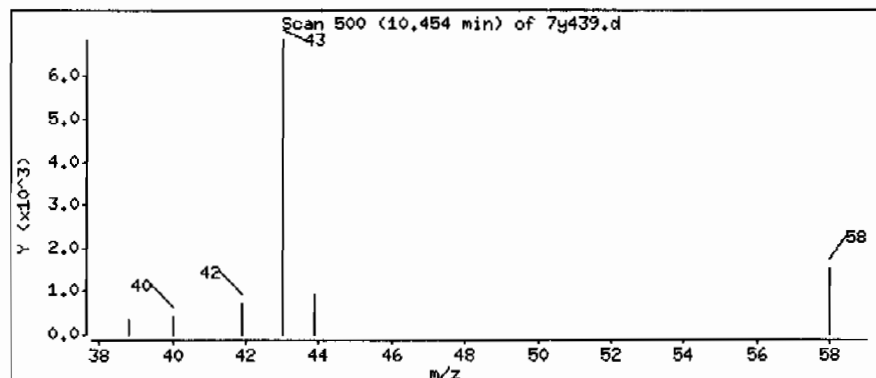
Operator: AX01

Column phase: DB-624

Column diameter: 0.25

13 Acetone

Concentration: 8.0 ug/Kg



Data File: /chem/VOA7.i/021110v7/7y439.d

Page 3

Date : 12-FEB-2010 06:57

Client ID: RE15-10-8300

Instrument: VOA7.i

Sample Info: 12463300091952150111VOAF111

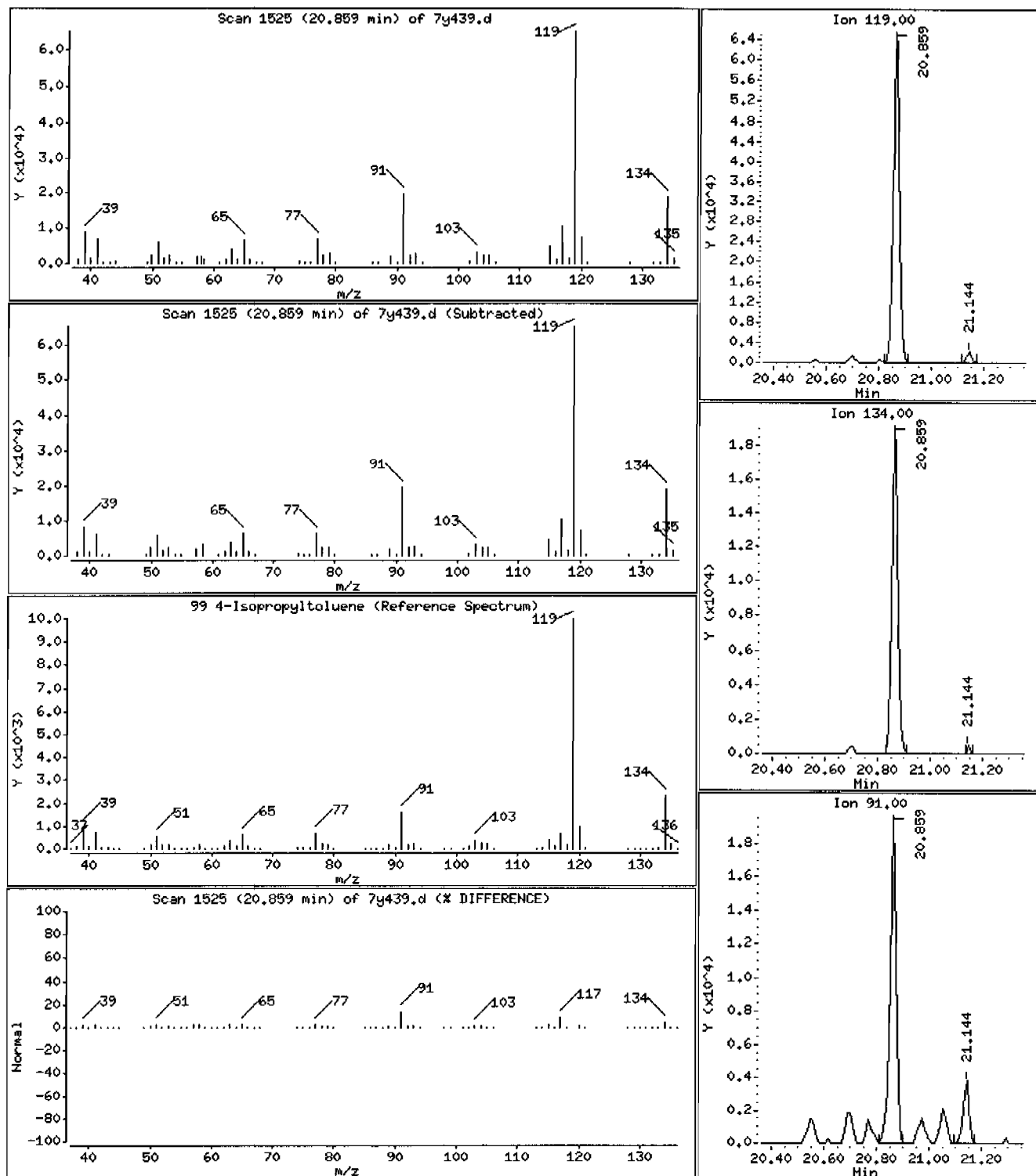
Operator: AX01

Column phase: DB-624

Column diameter: 0.25

99 4-Isopropyltoluene

Concentration: 16.7 ug/Kg



Date : 12-FEB-2010 06:57

Client ID: RE15-10-8300

Instrument: VOA7.i

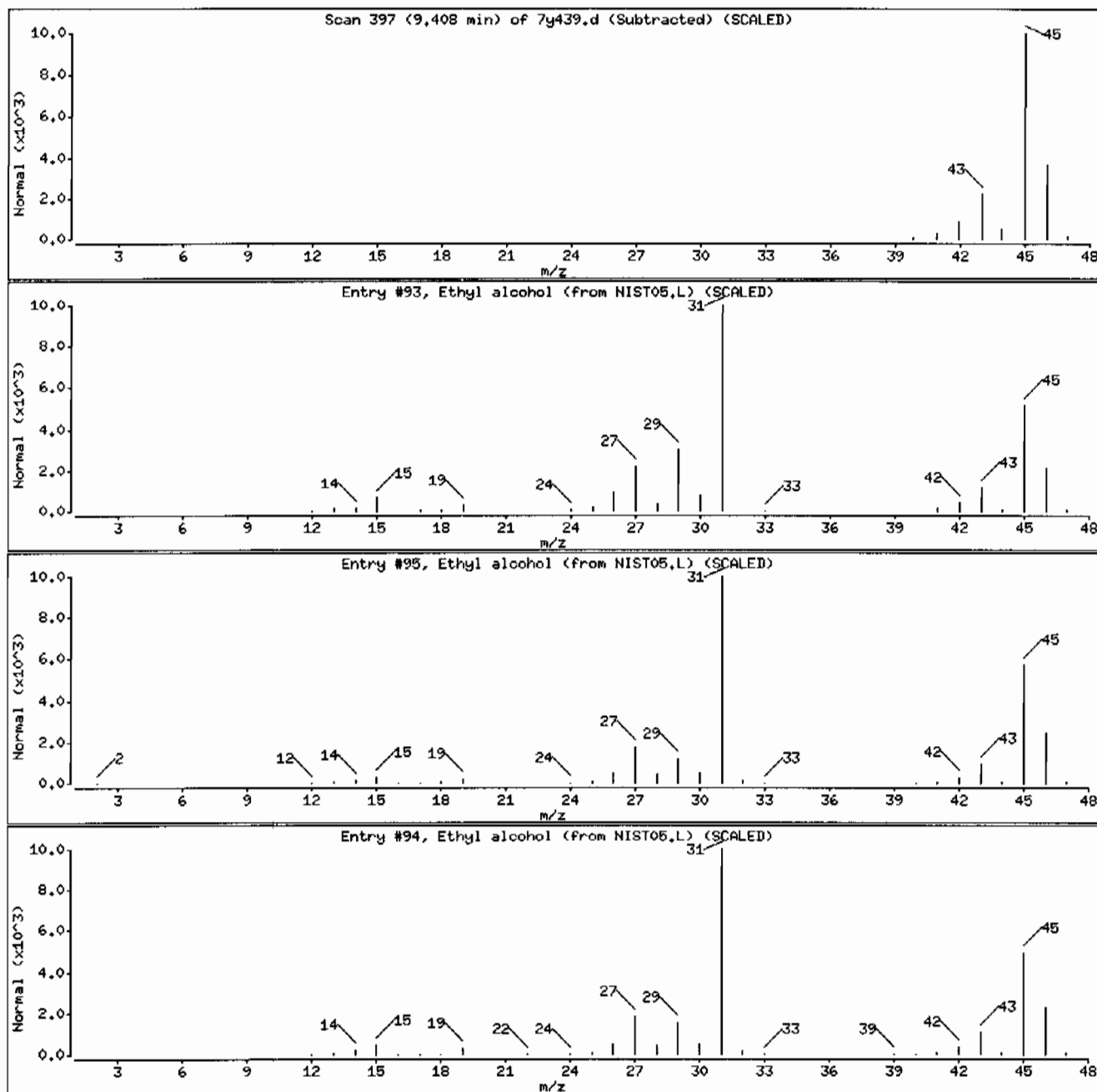
Sample Info: 12463300091952150111VOAF111

Operator: AXD1

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alcohol						
Ethyl alcohol	64-17-5	NIST05.L	93	74	C ₂ H ₆ O	46
Ethyl alcohol	64-17-5	NIST05.L	95	74	C ₂ H ₆ O	46
Ethyl alcohol	64-17-5	NIST05.L	94	64	C ₂ H ₆ O	46



Date: 12-FEB-2010 06:57

Client ID: RE15-10-8300

Instrument: V0A7.i

Sample Info: 1246330009195215011V0AF111

Operator: AX01

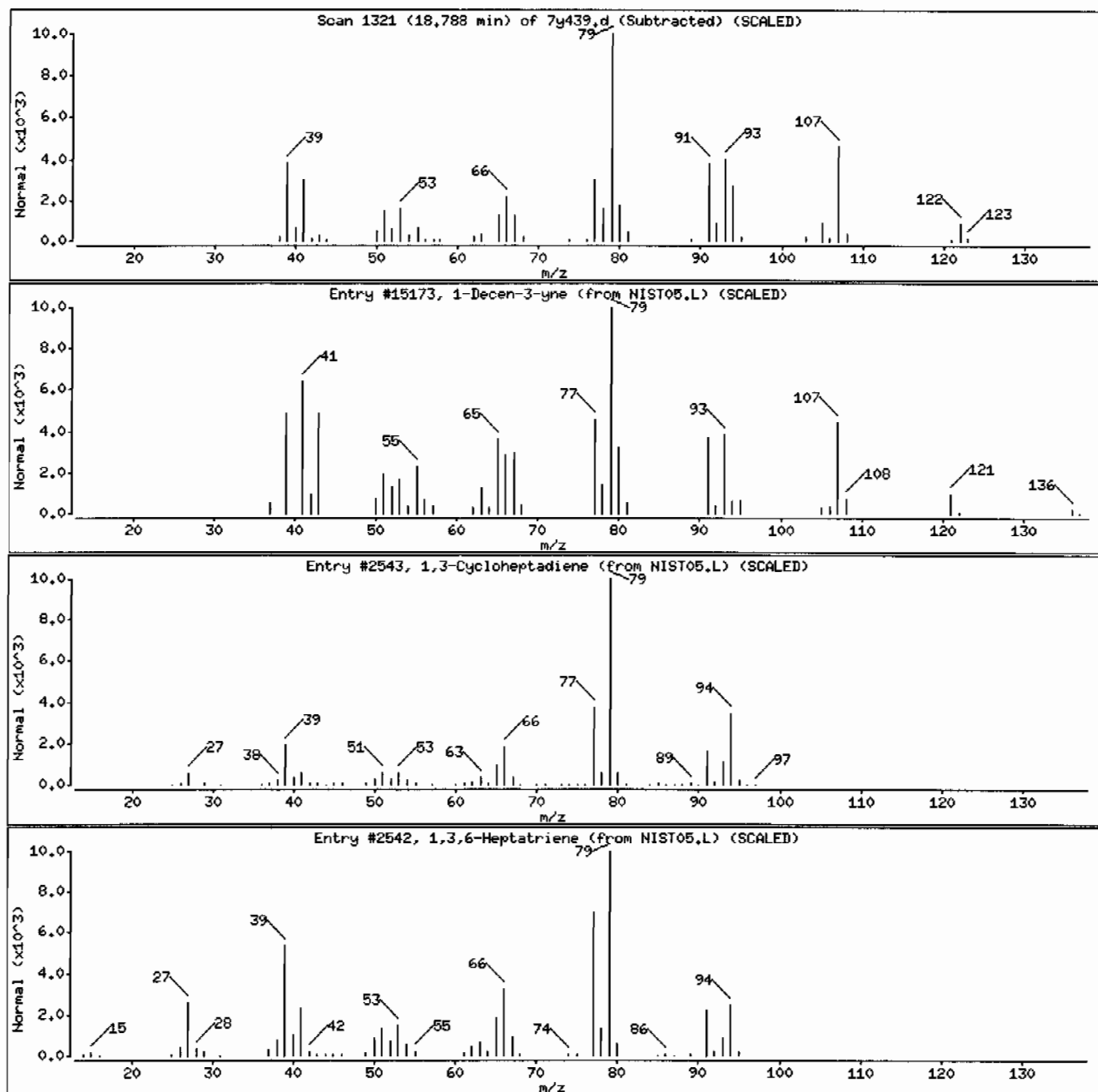
Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match

Unknown Hydrocarbon

	CAS Number	Library	Entry	Quality	Formula	Weight
1-Decen-3-yne	33622-26-3	NIST05.L	15173	64	C10H16	136
1,3-Cycloheptadiene	4054-38-0	NIST05.L	2543	60	C7H10	94
1,3,6-Heptatriene	1002-27-3	NIST05.L	2542	50	C7H10	94



Date : 12-FEB-2010 06:57

Client ID: RE15-10-8300

Instrument: V0A7.i

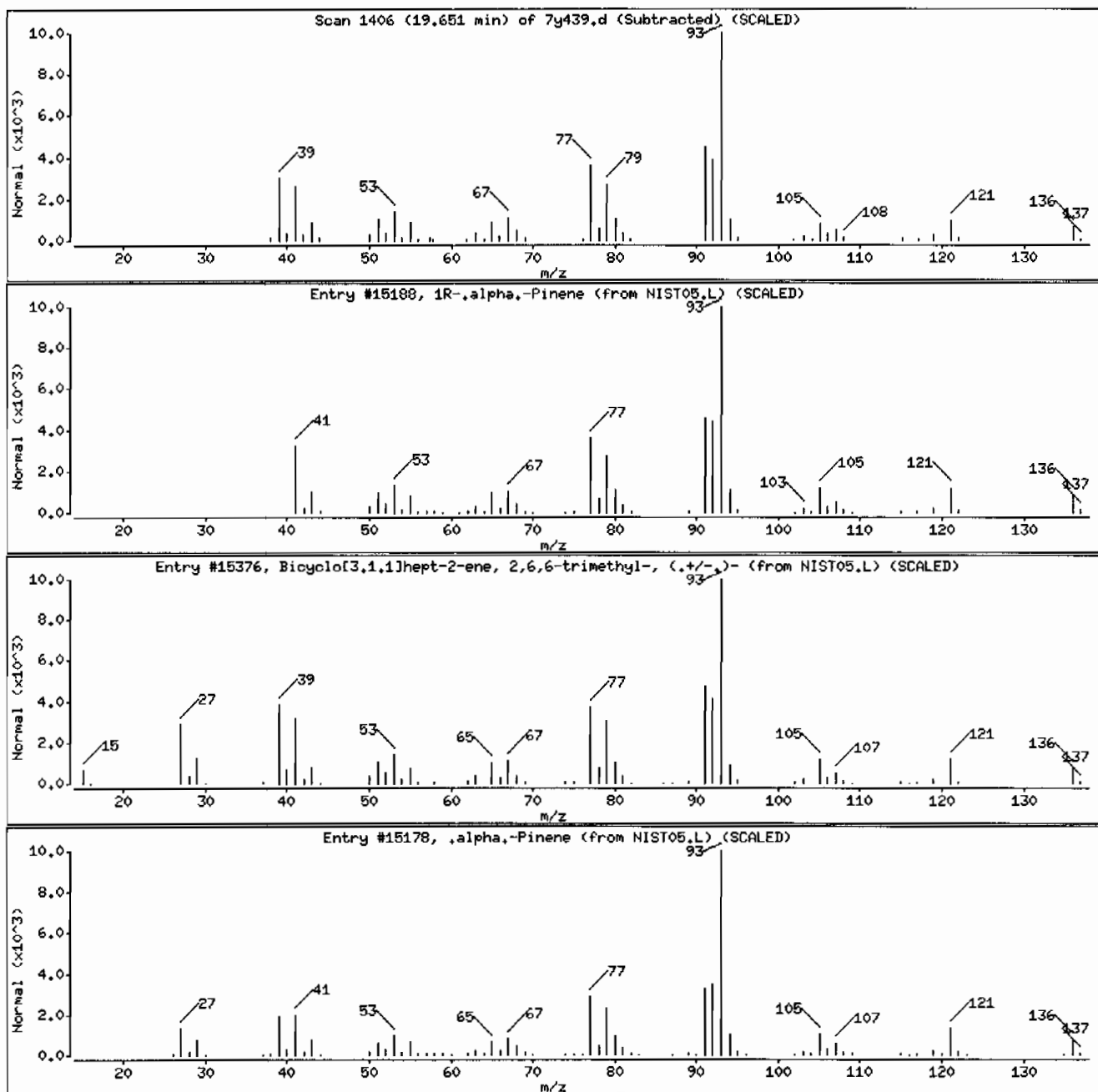
Sample Info: 1246330009195215011V0AF111

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Hydrocarbon						
1R-,alpha,-Pinene	7785-70-8	NIST05.L	15188	97	C10H16	136
Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethy	2437-95-8	NIST05.L	15376	96	C10H16	136
,alpha,-Pinene	80-56-8	NIST05.L	15178	93	C10H16	136



Date : 12-FEB-2010 06:57

Client ID: RE15-10-8300

Instrument: VOA7.i

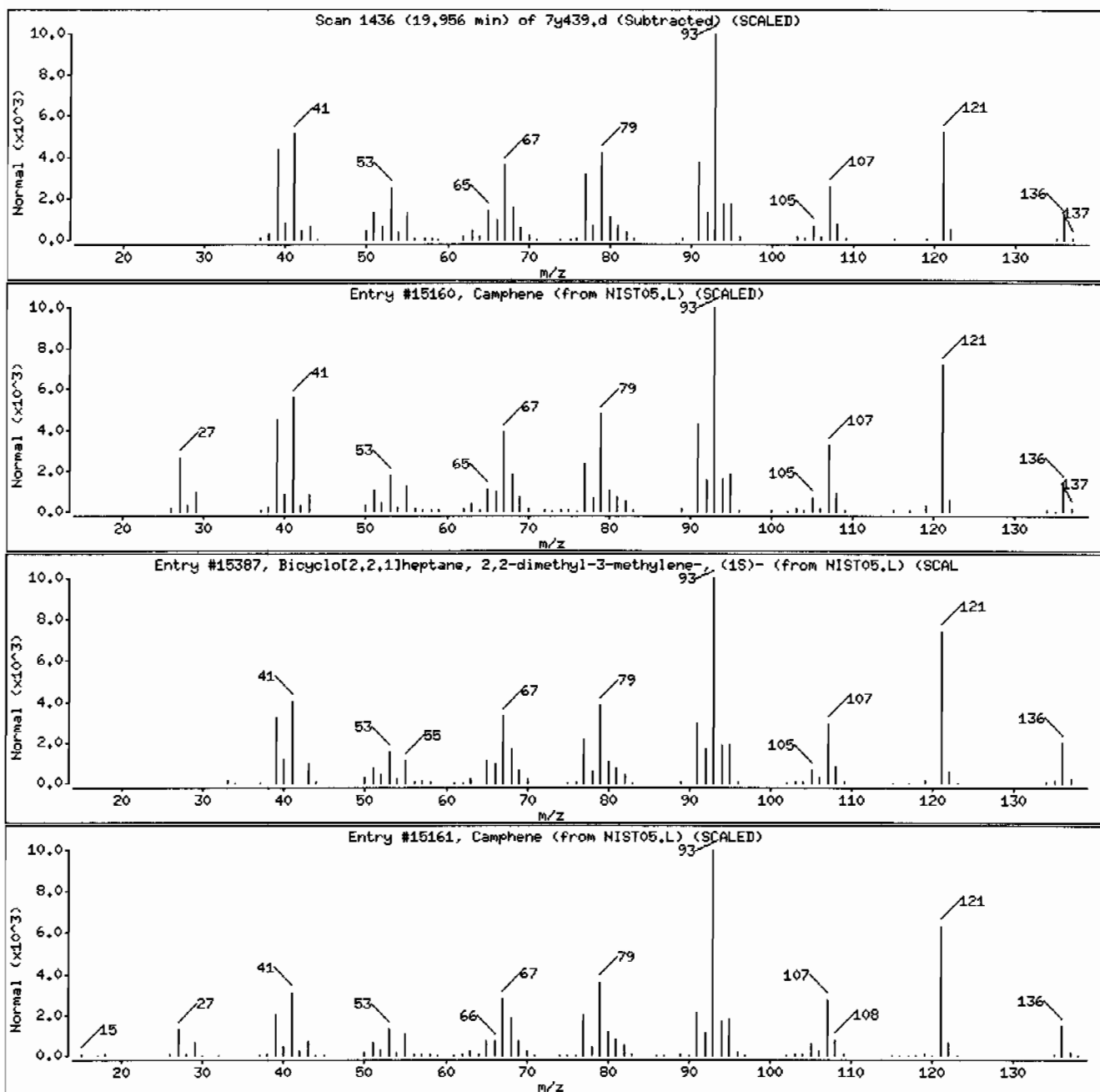
Sample Info: 12463300091952150111VOAF111

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Hydrocarbon						
Camphene	79-92-5	NIST05.L	15160	97	C10H16	136
Bicyclo[2,2,1]heptane, 2,2-dimethyl-3-me	5794-04-7	NIST05.L	15387	96	C10H16	136
Camphene	79-92-5	NIST05.L	15161	95	C10H16	136



Date: 12-FEB-2010 06:57

Client ID: RE15-10-8300

Instrument: VOA7.i

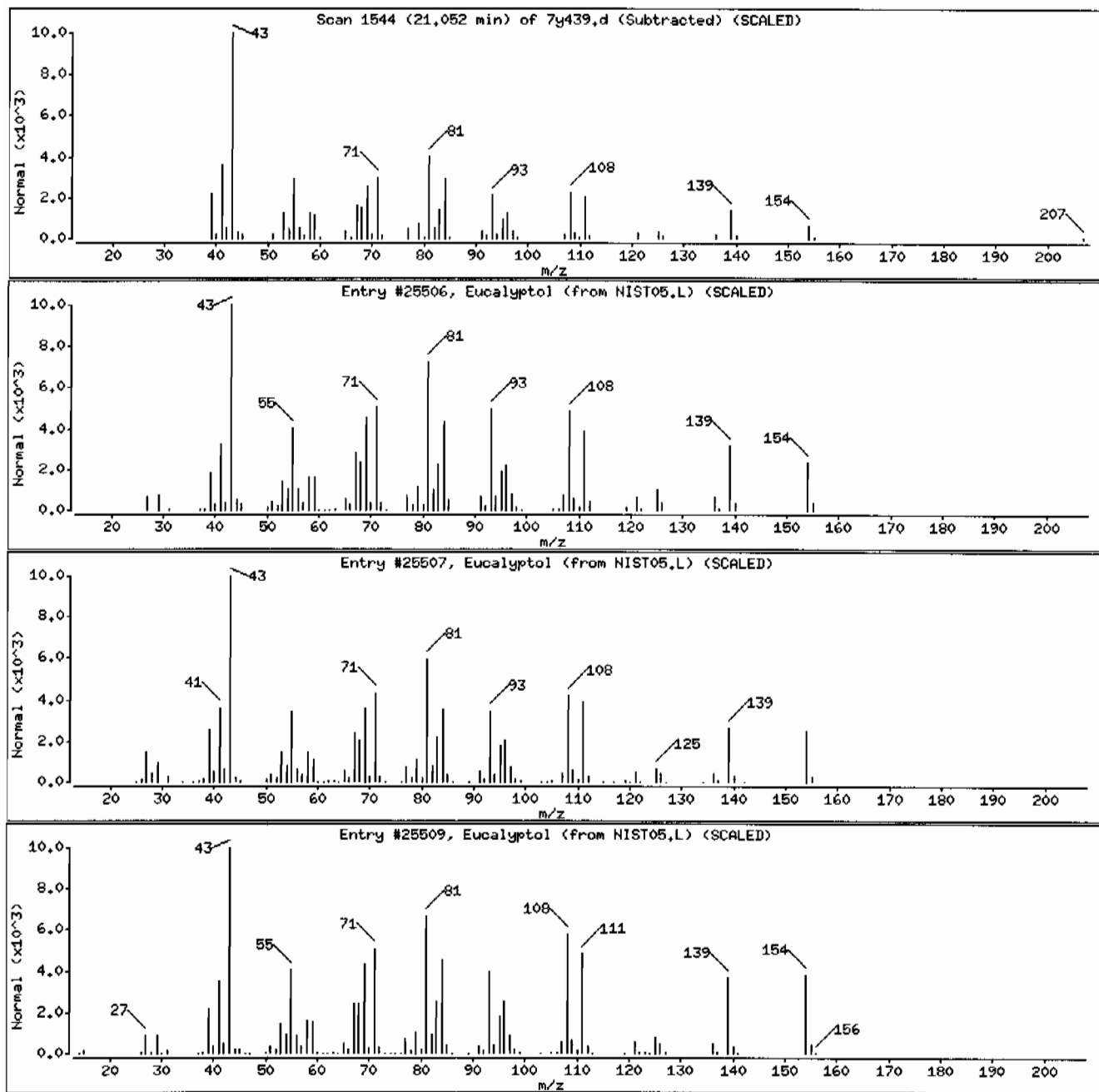
Sample Info: 1246330009195215011\VOAF111

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Hydrocarbon						
Eucalyptol	470-82-6	NIST05.L	25506	97	C ₁₀ H ₁₈ O	154
Eucalyptol	470-82-6	NIST05.L	25507	97	C ₁₀ H ₁₈ O	154
Eucalyptol	470-82-6	NIST05.L	25509	97	C ₁₀ H ₁₈ O	154



Date : 12-FEB-2010 06:57

Client ID: RE15-10-8300

Instrument: V0A7.i

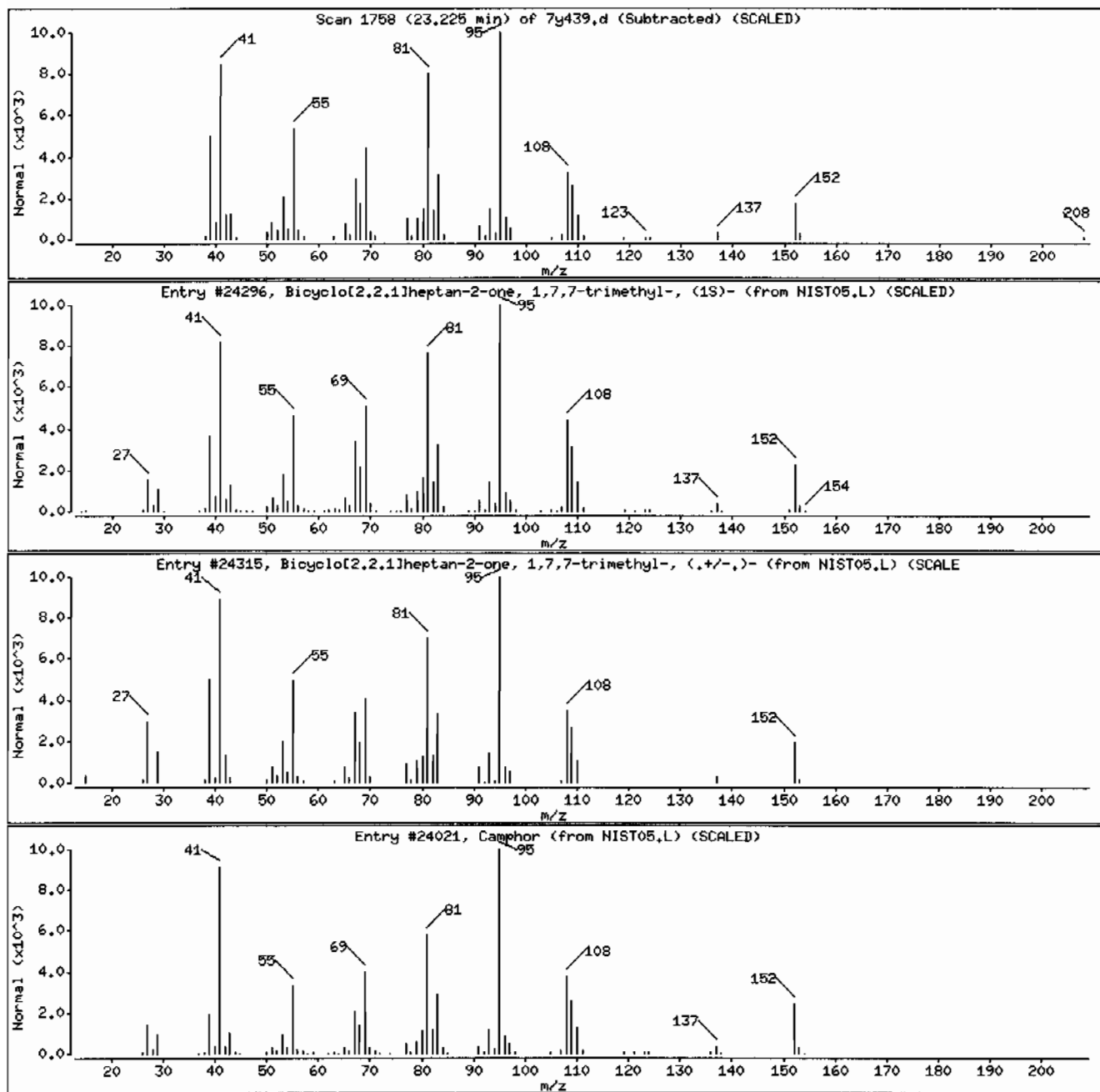
Sample Info: I246330009I952150I11V0AFI11

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Hydrocarbon						
Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimet	464-48-2	NIST05.L	24296	98	C10H16O	152
Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimet	21368-68-3	NIST05.L	24315	98	C10H16O	152
Camphor	76-22-2	NIST05.L	24021	97	C10H16O	152



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330008	Date Received: 02/05/2010 09:00	%Moisture: 6
Client ID: RE15-10-8301	Client: LANL010	Project: LANL01004
Batch ID: 952150	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/12/2010 06:22	Inst: VOA7.I	Dilution: 1
Prep Date: 02/11/2010 14:28	Analyst: AX01	Purge Vol: 5 mL
Data File: 7y438.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

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	1.60	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	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	1.60	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: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330008	Date Received: 02/05/2010 09:00	%Moisture: 6
Client ID: RE15-10-8301	Client: LANL010	Project: LANL01004
Batch ID: 952150	Method: SW846 8260B	SOP Ref: G1-OA-E-038
Run Date: 02/12/2010 06:22	Inst: VOA7.1	Dilution: 1
Prep Date: 02/11/2010 14:28	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7y438.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

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 Hydrocarbon	19.69	8.45	ug/kg		J
	Unknown Siloxane	21.55	8.63	ug/kg		J

Data File: /chem/VOA7.i/021110v7/7y438.d
Report Date: 22-Feb-2010 07:46

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021110v7/7y438.d

Lab Smp Id: 246330008

Client Smp ID: RE15-10-8301

Inj Date : 12-FEB-2010 06:22

Operator : AX01

Inst ID: VOA7.i

Smp Info : |246330008|952150|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

Meth Date : 22-Feb-2010 06:38 ale01592

Quant Type: ISTD

Cal Date : 03-FEB-2010 00:25

Cal File: 7x216.d

Als bottle: 38

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1567.sub

Target Version: 3.50

Processing Host: prdsrv07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	5.98190	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 51 Fluorobenzene	96	15.317	15.317 (1.000)	804348	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667 (1.000)	536106	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991 (1.000)	239983	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880 (0.971)	354948	48.1791	51.2
\$ 64 Toluene-d8	98	17.134	17.134 (0.918)	870950	55.1018	58.6
\$ 86 Bromofluorobenzene	95	19.814	19.814 (0.944)	348149	55.7062	59.2

ION RATIO REPORT

VOA REPORT

Data file: 7y438.d

Report Date: 02/12/2010 09:41

Lab. ID: 246330008

SampleType: SAMPLE

Injection Date: 12-FEB-2010 06:22

Operator: AX01

Instrument: VOA7.i

Sample Info: |246330008|952150|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1567

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	11026	17.13	16.94	80-120	100	(T)
43	6413	17.14	16.94	217-277	58	(QT)
100	583306	17.13	16.94	0- 58	5290	(QT)

82	Bromoform			CAS#: 75-25-2		
173	829	19.82	19.54	80-120	100	(T)
175	16209	19.81	19.54	18- 78	1953	(QT)

89	1,2,3-Trichloropropane			CAS#: 96-18-4		
110	1462	19.69	19.97	80-120	100	(T)
75	4763	19.69	19.97	306-366	326	(T)
77	2104	19.81	19.97	87-147	144	(T)

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
 Data file : /chem/VOA7.i/021110v7/7y438.d
 Lab Smp Id: 246330008 Client Smp ID: RE15-10-8301
 Inj Date : 12-FEB-2010 06:22
 Operator : AX01 Inst ID: VOA7.i
 Smp Info : |246330008|952150|1|VOAF|1|
 Misc Info : LANL 5g N/A
 Comment :
 Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m
 Meth Date : 22-Feb-2010 06:38 ale01592 Quant Type: ISTD
 Cal Date : 03-FEB-2010 00:25 Cal File: 7x216.d
 Als bottle: 38
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1567.sub
 Target Version: 3.50
 Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	5.98190	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 75 Chlorobenzene-d5	18.667	2052794	50.000
* 101 1,4-Dichlorobenzene-d4	20.991	1761066	50.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ug/l)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Hydrocarbon				CAS #:			
19.692	325992	7.94020542	8.4	0		0	75

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ug/l)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Siloxane							
21.550	285639	8.10983942	8.6	0		0	101

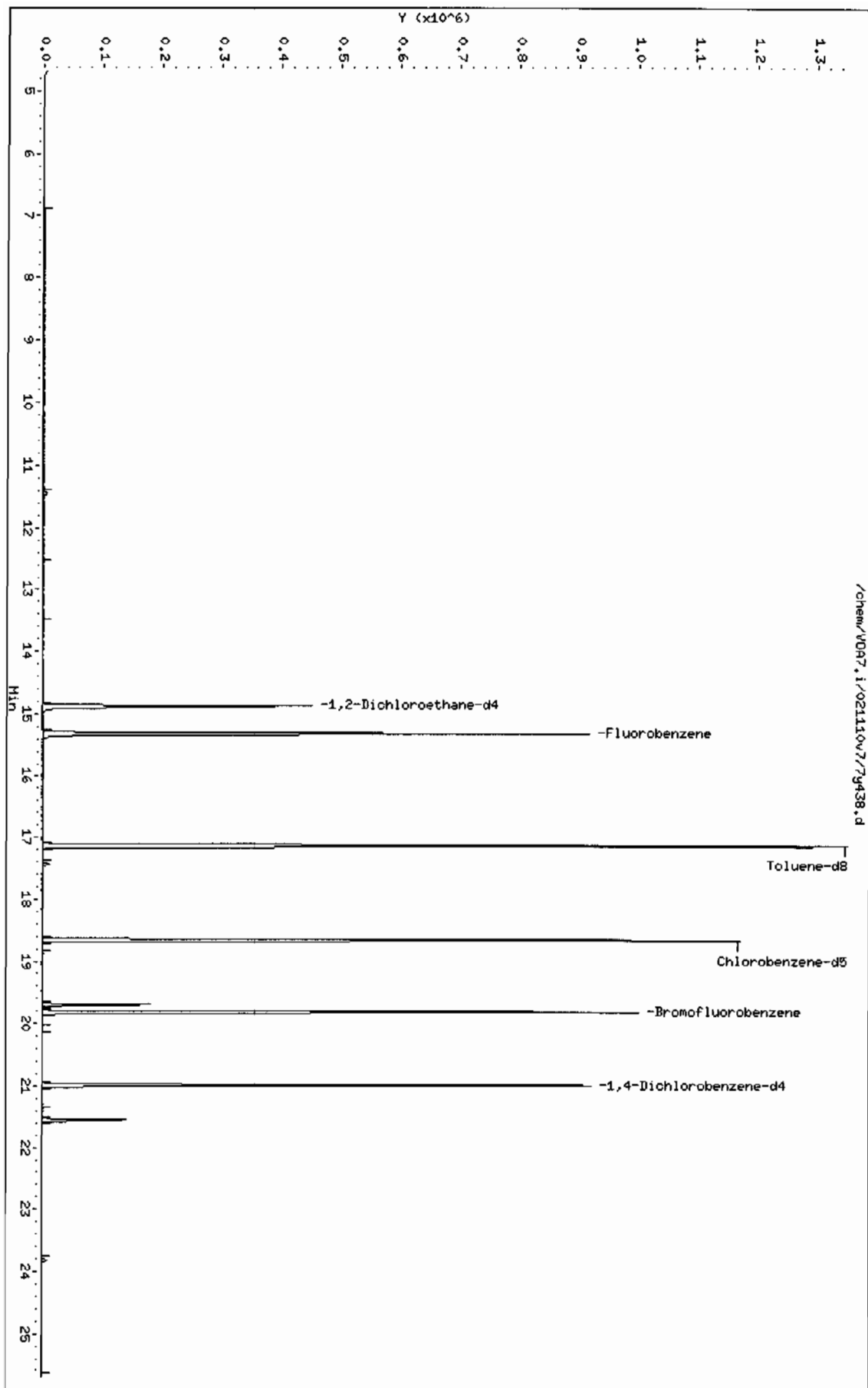
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Date: 12-FEB-2010 06:22
Client ID: RE15-10-8301
Sample Info: 1246330008196215011|VOA7.1

Column phase: DB-624

Instrument: VOA7.1

Operator: AXX01

Column diameter: 0.25



Date : 12-FEB-2010 06:22

Client ID: RE15-10-8301

Instrument: V0A7.i

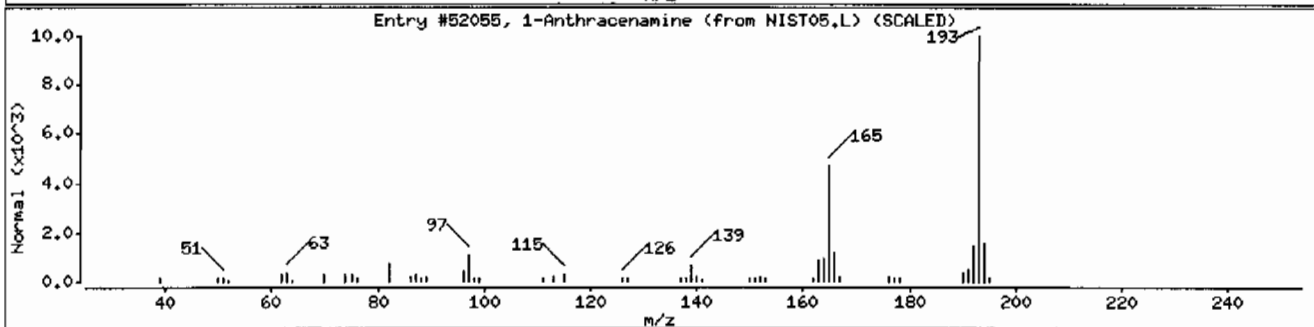
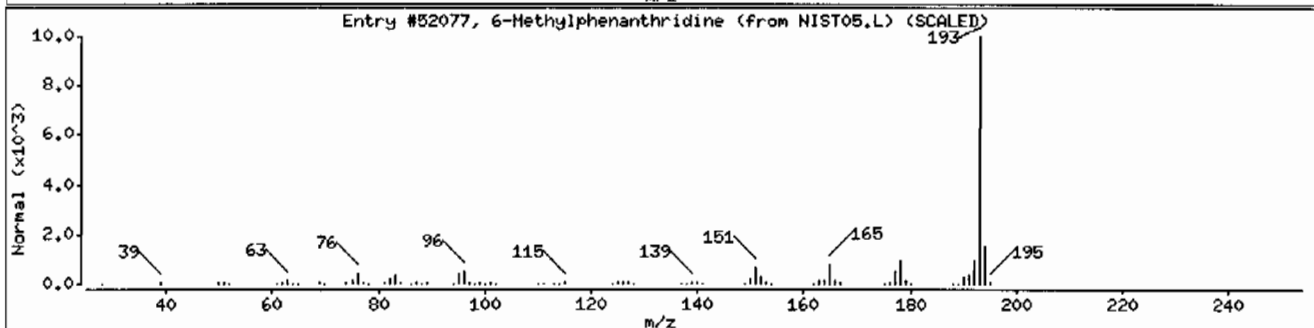
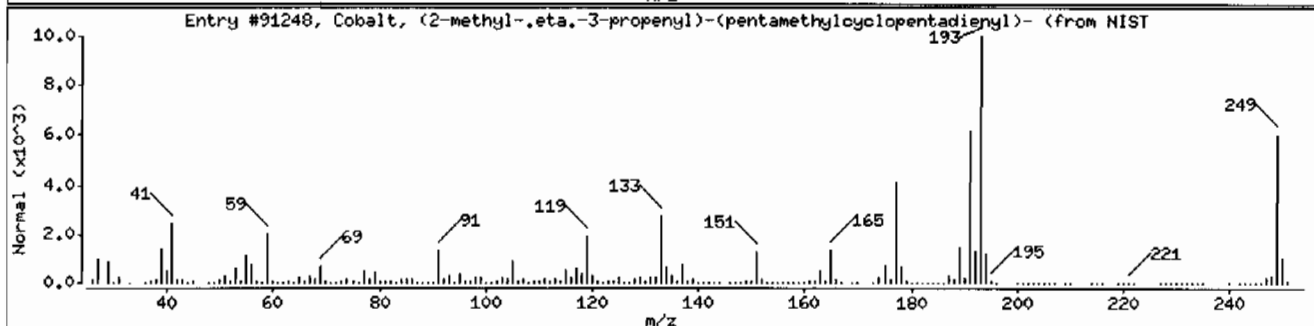
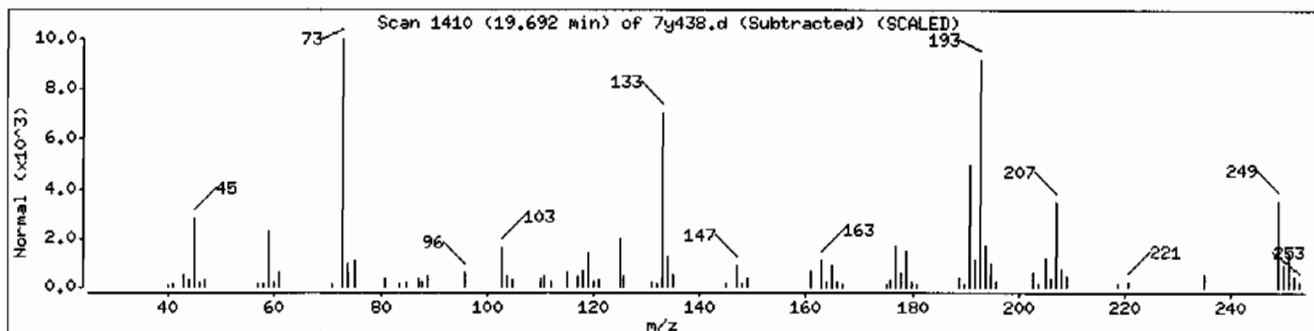
Sample Info: I246330008I95215011I\V0AF11I

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Hydrocarbon						
Cobalt, (2-methyl-,eta.-3-propenyl)-(pen	1000157-04-3	NIST05.L	91248	38	C14H22Co	249
6-Methylphenanthridine	3955-65-5	NIST05.L	52077	30	C14H11N	193
1-Anthracenamine	610-49-1	NIST05.L	52055	27	C14H11N	193



Date : 12-FEB-2010 06:22

Client ID: RE15-10-8301

Instrument: VOA7.i

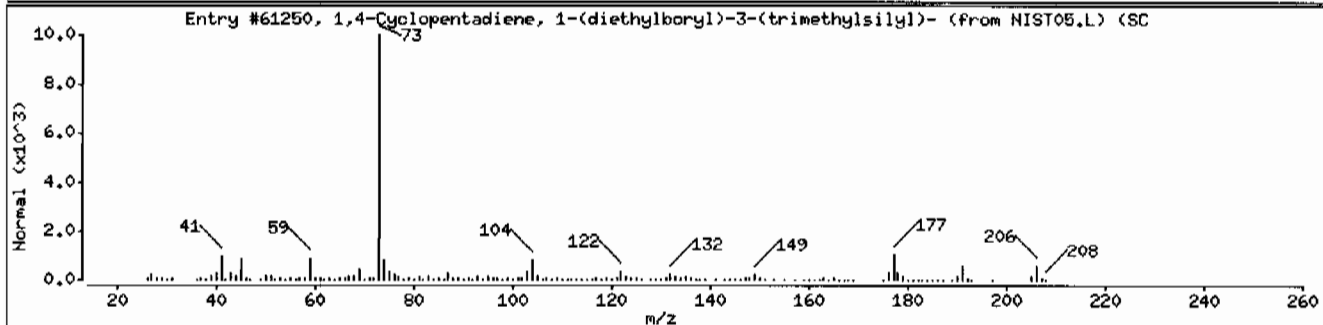
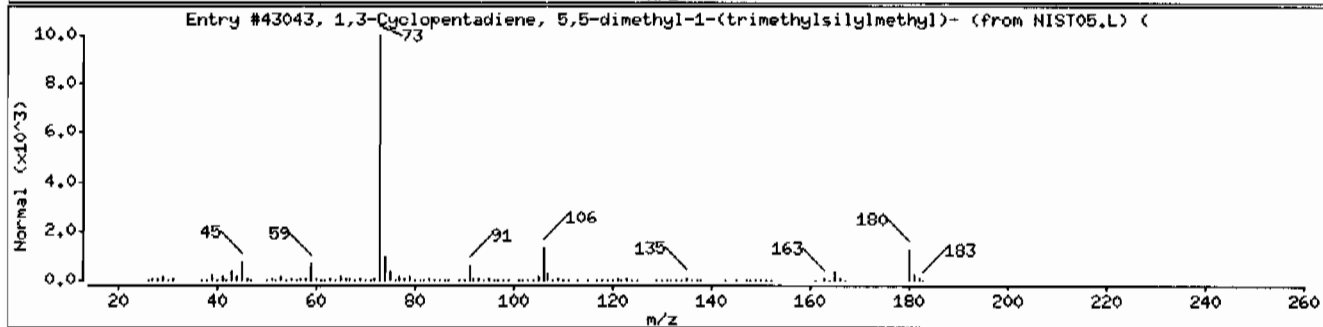
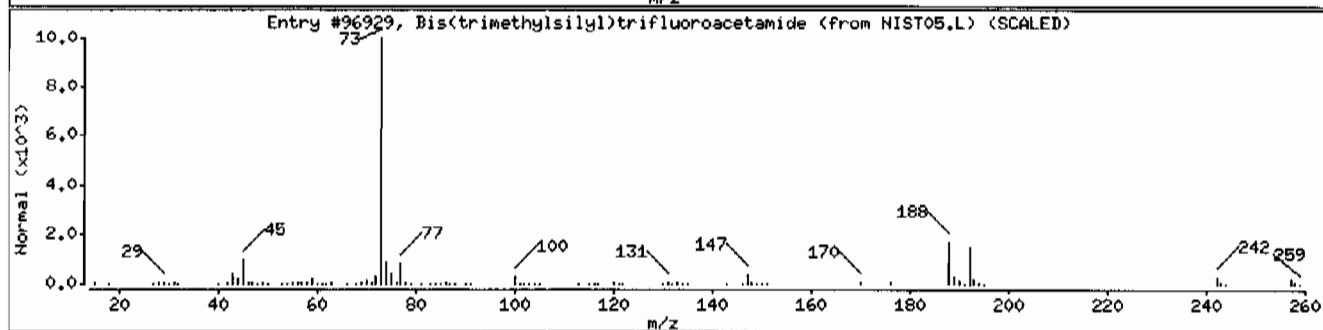
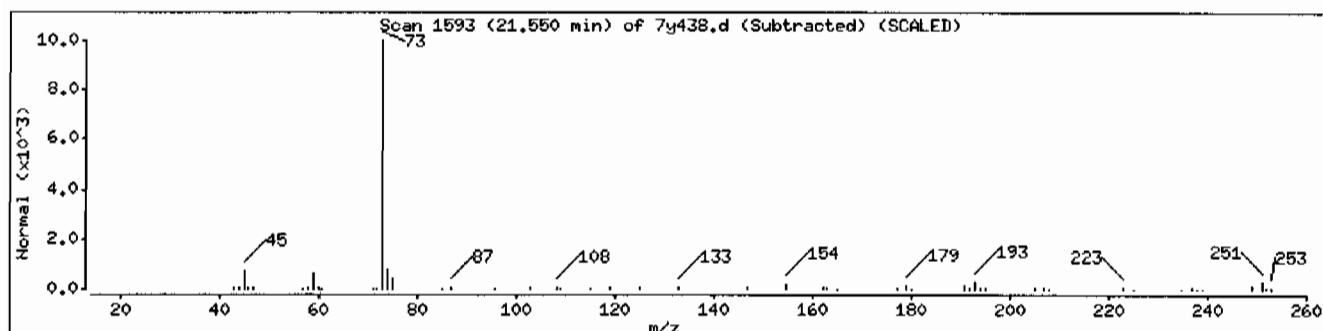
Sample Info: 12463300081952150111VOAF111

Operator: AX01

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Siloxane						
Bis(trimethylsilyl)trifluoroacetamide	25561-30-2	NIST05.L	96929	25	C8H18F3NO ₂ Si ₂	257
1,3-Cyclopentadiene, 5,5-dimethyl-1-(tri	1000163-65-0	NIST05.L	43043	25	C ₁₁ H ₂₀ Si	180
1,4-Cyclopentadiene, 1-(diethylboryl)-3-	1000164-14-1	NIST05.L	61250	25	C ₁₂ H ₂₃ BSi	206



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 246330002

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 % Moisture: 20.3
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.26	ug/kg	0.427	1.26
74-87-3	Chloromethane	U	1.26	ug/kg	0.377	1.26
75-01-4	Vinyl chloride	U	1.26	ug/kg	0.377	1.26
74-83-9	Bromomethane	U	1.26	ug/kg	0.377	1.26
75-00-3	Chloroethane	U	1.26	ug/kg	0.377	1.26
75-69-4	Trichlorofluoromethane	U	1.26	ug/kg	0.377	1.26
67-64-1	Acetone	U	6.28	ug/kg	2.08	6.28
75-35-4	1,1-Dichloroethylene	U	1.26	ug/kg	0.377	1.26
74-88-4	Iodomethane	U	6.28	ug/kg	2.01	6.28
75-09-2	Methylene chloride	U	6.28	ug/kg	2.51	6.28
75-15-0	Carbon disulfide	U	6.28	ug/kg	1.57	6.28
156-60-5	trans-1,2-Dichloroethylen	U	1.26	ug/kg	0.377	1.26
75-34-3	1,1-Dichloroethane	U	1.26	ug/kg	0.377	1.26
78-93-3	2-Butanone	U	6.28	ug/kg	1.88	6.28
156-59-2	cis-1,2-Dichloroethylene	U	1.26	ug/kg	0.377	1.26
594-20-7	2,2-Dichloropropane	U	1.26	ug/kg	0.377	1.26
67-66-3	Chloroform	U	1.26	ug/kg	0.377	1.26
74-97-5	Bromochloromethane	U	1.26	ug/kg	0.414	1.26
71-55-6	1,1,1-Trichloroethane	U	1.26	ug/kg	0.377	1.26
563-58-6	1,1-Dichloropropene	U	1.26	ug/kg	0.377	1.26
56-23-5	Carbon tetrachloride	U	1.26	ug/kg	0.377	1.26
107-06-2	1,2-Dichloroethane	U	1.26	ug/kg	0.377	1.26
71-43-2	Benzene	U	1.26	ug/kg	0.377	1.26
79-01-6	Trichloroethylene	U	1.26	ug/kg	0.414	1.26
78-87-5	1,2-Dichloropropane	U	1.26	ug/kg	0.377	1.26
75-27-4	Bromodichloromethane	U	1.26	ug/kg	0.377	1.26
74-95-3	Dibromomethane	U	1.26	ug/kg	0.377	1.26
108-10-1	4-Methyl-2-pentanone	U	6.28	ug/kg	1.57	6.28
10061-01-5	cis-1,3-Dichloropropylene	U	1.26	ug/kg	0.377	1.26
108-88-3	Toluene	U	1.26	ug/kg	0.377	1.26
10061-02-6	trans-1,3-Dichloropropylene	U	1.26	ug/kg	0.377	1.26
79-00-5	1,1,2-Trichloroethane	U	1.26	ug/kg	0.377	1.26
591-78-6	2-Hexanone	U	6.28	ug/kg	1.88	6.28
142-28-9	1,3-Dichloropropane	U	1.26	ug/kg	0.377	1.26
127-18-4	Tetrachloroethylene	U	1.26	ug/kg	0.377	1.26
124-48-1	Dibromochloromethane	U	1.26	ug/kg	0.377	1.26
106-93-4	1,2-Dibromoethane	U	1.26	ug/kg	0.377	1.26
108-90-7	Chlorobenzene	U	1.26	ug/kg	0.377	1.26

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1567
Lab Sample ID: 246330002

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 20.3
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

Client ID: RE15-10-8304
Batch ID: 952150
Run Date: 02/12/2010 17:45
Prep Date: 02/12/2010 15:12
Data File: 7y511.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.26	ug/kg	0.377	1.26
179601-23-1	m,p-Xylenes	U	2.51	ug/kg	0.377	2.51
95-47-6	o-Xylene	U	1.26	ug/kg	0.377	1.26
100-42-5	Styrene	U	1.26	ug/kg	0.377	1.26
75-25-2	Bromoform	U	1.26	ug/kg	0.377	1.26
79-34-5	1,1,2,2-Tetrachloroethane	U	1.26	ug/kg	0.377	1.26
96-18-4	1,2,3-Trichloropropane	U	1.26	ug/kg	0.377	1.26
108-86-1	Bromobenzene	U	1.26	ug/kg	0.377	1.26
103-65-1	n-Propylbenzene	U	1.26	ug/kg	0.377	1.26
95-49-8	2-Chlorotoluene	U	1.26	ug/kg	0.377	1.26
98-82-8	Isopropylbenzene	U	1.26	ug/kg	0.377	1.26
108-67-8	1,3,5-Trimethylbenzene	U	1.26	ug/kg	0.377	1.26
106-43-4	4-Chlorotoluene	U	1.26	ug/kg	0.377	1.26
98-06-6	tert-Butylbenzene	U	1.26	ug/kg	0.377	1.26
95-63-6	1,2,4-Trimethylbenzene	U	1.26	ug/kg	0.377	1.26
135-98-8	sec-Butylbenzene	U	1.26	ug/kg	0.377	1.26
99-87-6	4-Isopropyltoluene	U	1.26	ug/kg	0.377	1.26
541-73-1	1,3-Dichlorobenzene	U	1.26	ug/kg	0.377	1.26
106-46-7	1,4-Dichlorobenzene	U	1.26	ug/kg	0.377	1.26
104-51-8	n-Butylbenzene	U	1.26	ug/kg	0.377	1.26
96-12-8	1,2-Dibromo-3-chloropropane	U	1.26	ug/kg	0.377	1.26
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.28	ug/kg	2.01	6.28
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.26	ug/kg	0.377	1.26
95-50-1	1,2-Dichlorobenzene	U	1.26	ug/kg	0.377	1.26

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	21.55	12.7	ug/kg		J

Data File: /chem/VOA7.i/021210v7/7y511.d
Report Date: 22-Feb-2010 07:57

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021210v7/7y511.d

Lab Smp Id: 246330002

Client Smp ID: RE15-10-8304

Inj Date : 12-FEB-2010 17:45

Operator : AX01

Inst ID: VOA7.i

Smp Info : |246330002|952150|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m

Meth Date : 22-Feb-2010 06:51 ale01592

Quant Type: ISTD

Cal Date : 03-FEB-2010 00:25

Cal File: 7x216.d

Als bottle: 11

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1567.sub

Target Version: 3.50

Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	20.32590	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	840730	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	538979	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	214856	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	378935	49.2092	61.8
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	912068	57.3956	72.0
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	320933	57.3570	72.0

ION RATIO REPORT

VOA REPORT

Data file: 7y511.d
Report Date: 02/14/2010 15:42
Lab. ID: 246330002
Injection Date: 12-FEB-2010 17:45
Operator: AX01
Sample Info: |246330002|952150|1|VOAF|1|
Miscellaneous Info: LANL 5g N/A
Comment:
Method used: /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
Dilution Factor= 1.0
Integrator: HP RTE
Sample Matrix: SOIL

SampleType: SAMPLE
Instrument: VOA7.i
Compound Sublist: 10-1567

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63 4-Methyl-2-pentanone				CAS#: 108-10-1		
58	11107	17.13	16.94	80-120	100	(T)
43	6992	17.13	16.93	223-283	63	(QT)
100	616017	17.13	16.94	0- 56	5546	(QT)

82 Bromoform				CAS#: 75-25-2		
173	934	19.82	19.54	80-120	100	(T)
175	14330	19.81	19.54	18- 78	1533	(QT)

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
 Data file : /chem/VOA7.i/021210v7/7y511.d
 Lab Smp Id: 246330002 Client Smp ID: RE15-10-8304
 Inj Date : 12-FEB-2010 17:45
 Operator : AX01 Inst ID: VOA7.i
 Smp Info : |246330002|952150|1|VOAF|1|
 Misc Info : LANL 5g N/A
 Comment :
 Method : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
 Meth Date : 22-Feb-2010 06:51 ale01592 Quant Type: ISTD
 Cal Date : 03-FEB-2010 00:25 Cal File: 7x216.d
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1567.sub
 Target Version: 3.50
 Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	20.32590	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 101 1,4-Dichlorobenzene-d4	20.992	1587807	50.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ug/l)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Siloxane							
21.550	322458	10.1541913	12.7	0		0	101

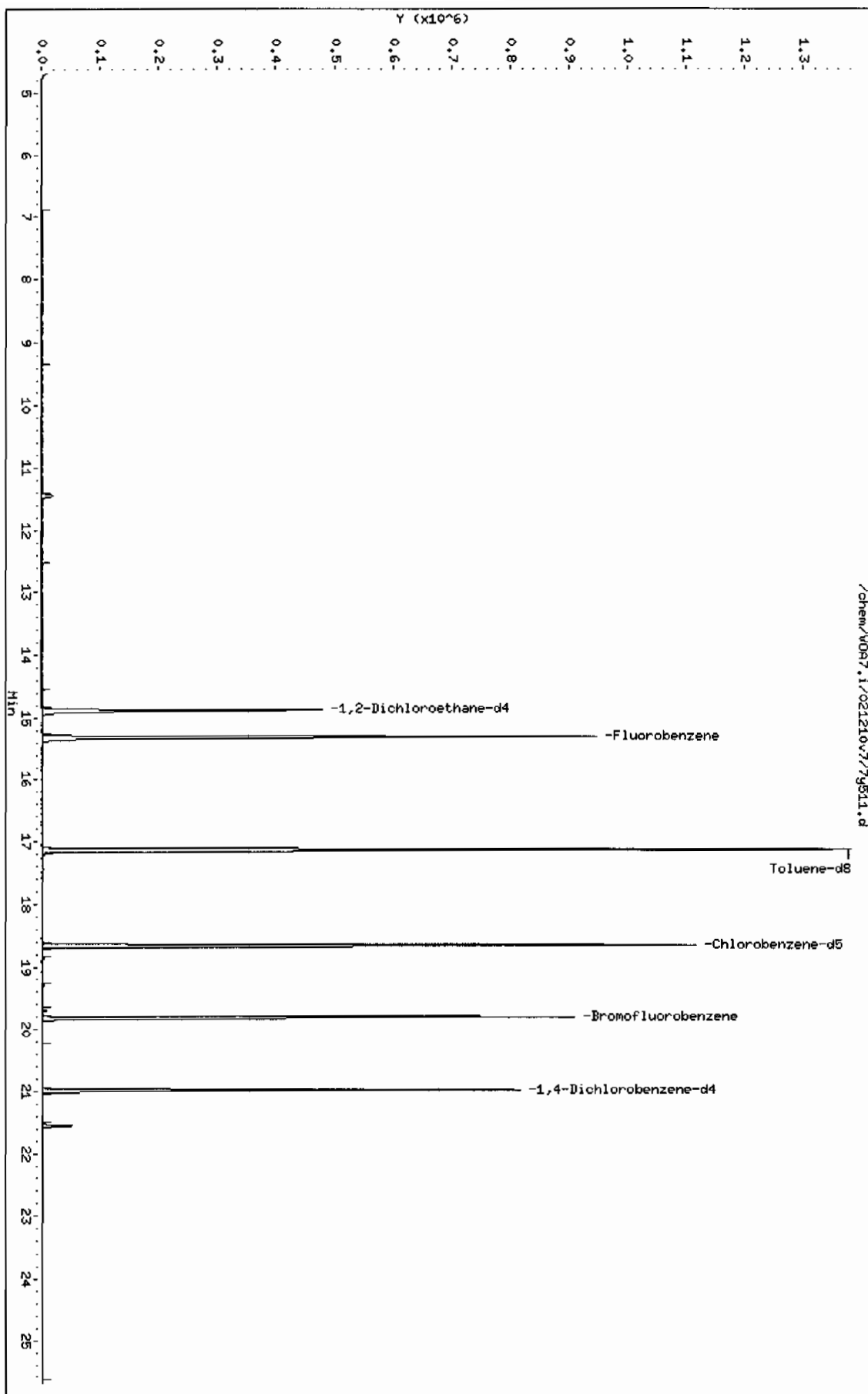
Data File: /chem/V067.i/021210v7/7g511.d
Date : 12-FEB-2010 17:45
Client ID: RE15-10-8304
Sample Info: 12463300021952150111V06F111

Column phase: DB-624

Instrument: V067.i

Operator: RXX01
Column diameter: 0.25

Page 1



Date : 12-FEB-2010 17:45

Client ID: RE15-10-8304

Instrument: VOA7.i

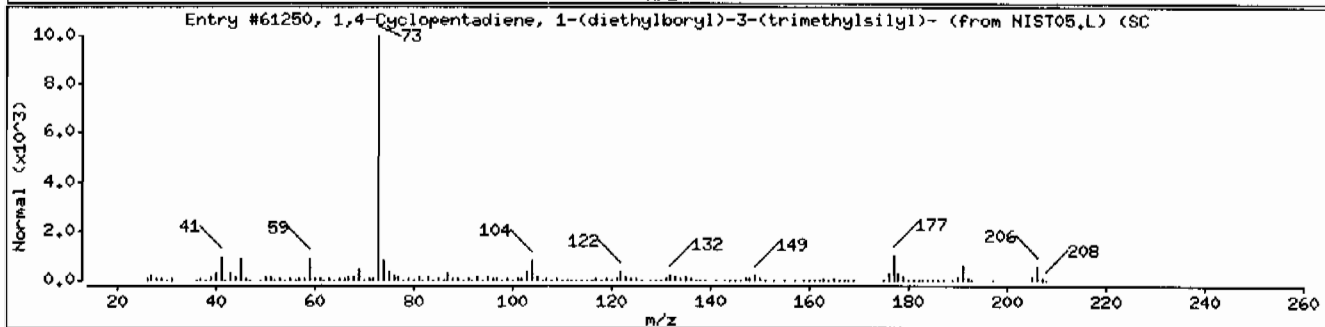
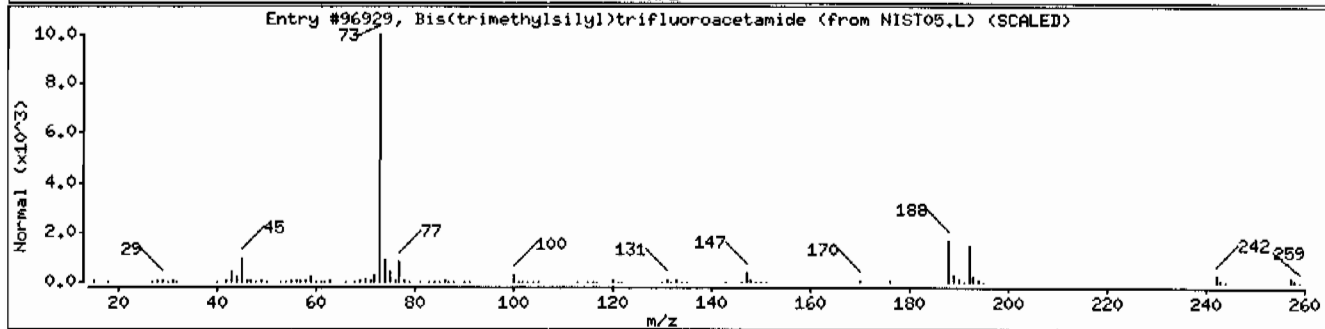
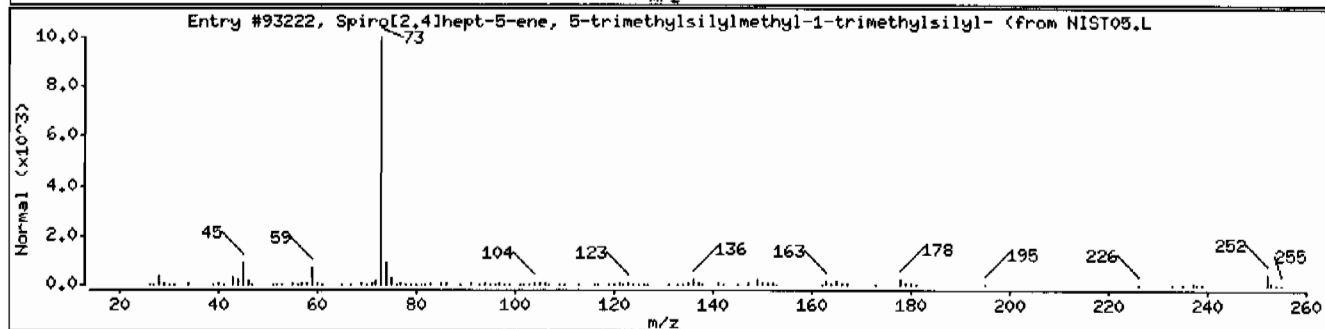
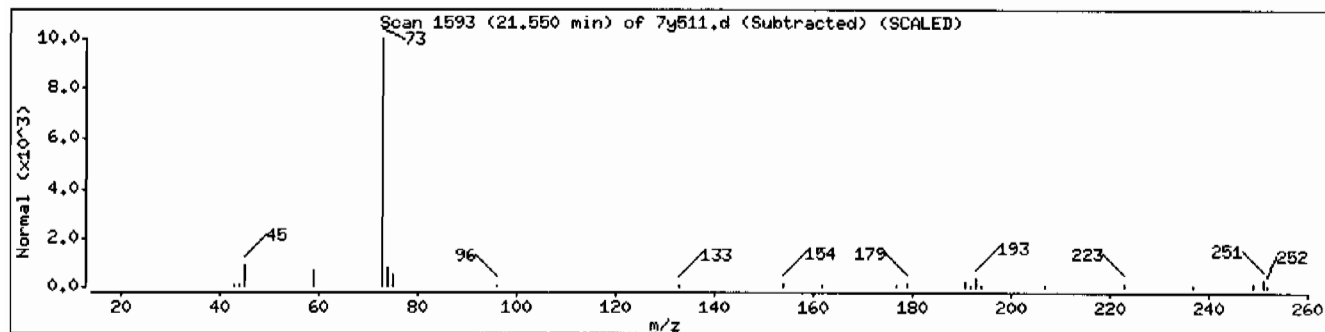
Sample Info: 1246330002195215011\VOAF11

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Siloxane						
Spiro[2.4]hept-5-ene, 5-trimethylsilylme	1000153-96-9	NIST05.L	93222	40	C14H28Si2	252
Bis(trimethylsilyl)trifluoroacetamide	25561-30-2	NIST05.L	96929	33	C8H18F3NO2Si2	257
1,4-Cyclopentadiene, 1-(diethylboryl)-3-	1000164-14-1	NIST05.L	61250	33	C12H23BSi	206



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
Lab Sample ID: 246330003

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 38.4
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

Client ID: RE15-10-8305
Batch ID: 952150
Run Date: 02/12/2010 03:28
Prep Date: 02/11/2010 14:18
Data File: 7y433.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.62	ug/kg	0.552	1.62
74-87-3	Chloromethane	U	1.62	ug/kg	0.487	1.62
75-01-4	Vinyl chloride	U	1.62	ug/kg	0.487	1.62
74-83-9	Bromomethane	U	1.62	ug/kg	0.487	1.62
75-00-3	Chloroethane	U	1.62	ug/kg	0.487	1.62
75-69-4	Trichlorofluoromethane	U	1.62	ug/kg	0.487	1.62
67-64-1	Acetone		14.1	ug/kg	2.69	8.11
75-35-4	1,1-Dichloroethylene	U	1.62	ug/kg	0.487	1.62
74-88-4	Iodomethane	U	8.11	ug/kg	2.60	8.11
75-09-2	Methylene chloride	U	8.11	ug/kg	3.25	8.11
75-15-0	Carbon disulfide	U	8.11	ug/kg	2.03	8.11
156-60-5	trans-1,2-Dichloroethylene	U	1.62	ug/kg	0.487	1.62
75-34-3	1,1-Dichloroethane	U	1.62	ug/kg	0.487	1.62
78-93-3	2-Butanone	U	8.11	ug/kg	2.43	8.11
156-59-2	cis-1,2-Dichloroethylene	U	1.62	ug/kg	0.487	1.62
594-20-7	2,2-Dichloropropane	U	1.62	ug/kg	0.487	1.62
67-66-3	Chloroform	U	1.62	ug/kg	0.487	1.62
74-97-5	Bromochloromethane	U	1.62	ug/kg	0.535	1.62
71-55-6	1,1,1-Trichloroethane	U	1.62	ug/kg	0.487	1.62
563-58-6	1,1-Dichloropropene	U	1.62	ug/kg	0.487	1.62
56-23-5	Carbon tetrachloride	U	1.62	ug/kg	0.487	1.62
107-06-2	1,2-Dichloroethane	U	1.62	ug/kg	0.487	1.62
71-43-2	Benzene	U	1.62	ug/kg	0.487	1.62
79-01-6	Trichloroethylene	U	1.62	ug/kg	0.535	1.62
78-87-5	1,2-Dichloropropane	U	1.62	ug/kg	0.487	1.62
75-27-4	Bromodichloromethane	U	1.62	ug/kg	0.487	1.62
74-95-3	Dibromomethane	U	1.62	ug/kg	0.487	1.62
108-10-1	4-Methyl-2-pentanone	U	8.11	ug/kg	2.03	8.11
10061-01-5	cis-1,3-Dichloropropylene	U	1.62	ug/kg	0.487	1.62
108-88-3	Toluene	J	1.12	ug/kg	0.487	1.62
10061-02-6	trans-1,3-Dichloropropylene	U	1.62	ug/kg	0.487	1.62
79-00-5	1,1,2-Trichloroethane	U	1.62	ug/kg	0.487	1.62
591-78-6	2-Hexanone	U	8.11	ug/kg	2.43	8.11
142-28-9	1,3-Dichloropropane	U	1.62	ug/kg	0.487	1.62
127-18-4	Tetrachloroethylene	U	1.62	ug/kg	0.487	1.62
124-48-1	Dibromochloromethane	U	1.62	ug/kg	0.487	1.62
106-93-4	1,2-Dibromoethane	U	1.62	ug/kg	0.487	1.62
108-90-7	Chlorobenzene	U	1.62	ug/kg	0.487	1.62

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330003	Date Received: 02/05/2010 09:00	%Moisture: 38.4
Client ID: RE15-10-8305	Client: LANL010	Project: LANL01004
Batch ID: 952150	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/12/2010 03:28	Inst: VOA7.I	Dilution: 1
Prep Date: 02/11/2010 14:18	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7y433.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQI/L.OQ
100-41-4	Ethylbenzene	U	1.62	ug/kg	0.487	1.62
179601-23-1	m,p-Xylenes	U	3.25	ug/kg	0.487	3.25
95-47-6	o-Xylene	U	1.62	ug/kg	0.487	1.62
100-42-5	Styrene	U	1.62	ug/kg	0.487	1.62
75-25-2	Bromoform	U	1.62	ug/kg	0.487	1.62
79-34-5	1,1,2,2-Tetrachloroethane	U	1.62	ug/kg	0.487	1.62
96-18-4	1,2,3-Trichloropropane	U	1.62	ug/kg	0.487	1.62
108-86-1	Bromobenzene	U	1.62	ug/kg	0.487	1.62
103-65-1	n-Propylbenzene	U	1.62	ug/kg	0.487	1.62
95-49-8	2-Chlorotoluene	U	1.62	ug/kg	0.487	1.62
98-82-8	Isopropylbenzene	U	1.62	ug/kg	0.487	1.62
108-67-8	1,3,5-Trimethylbenzene	U	1.62	ug/kg	0.487	1.62
106-43-4	4-Chlorotoluene	U	1.62	ug/kg	0.487	1.62
98-06-6	tert-Butylbenzene	U	1.62	ug/kg	0.487	1.62
95-63-6	1,2,4-Trimethylbenzene	U	1.62	ug/kg	0.487	1.62
135-98-8	sec-Butylbenzene	U	1.62	ug/kg	0.487	1.62
99-87-6	4-Isopropyltoluene		8.55	ug/kg	0.487	1.62
541-73-1	1,3-Dichlorobenzene	U	1.62	ug/kg	0.487	1.62
106-46-7	1,4-Dichlorobenzene	U	1.62	ug/kg	0.487	1.62
104-51-8	n-Butylbenzene	U	1.62	ug/kg	0.487	1.62
96-12-8	1,2-Dibromo-3-chloropropane	U	1.62	ug/kg	0.487	1.62
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	8.11	ug/kg	2.60	8.11
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.62	ug/kg	0.487	1.62
95-50-1	1,2-Dichlorobenzene	U	1.62	ug/kg	0.487	1.62

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Hydrocarbon	19.65	44.1	ug/kg		J
	Unknown Hydrocarbon	19.97	19	ug/kg		J
	Unknown Alkene	20.24	11.2	ug/kg		J
	Unknown Hydrocarbon	20.33	19.2	ug/kg		J
	Unknown Hydrocarbon	20.62	22.6	ug/kg		J
	Unknown Siloxane	21.55	10.9	ug/kg		J

Data File: /chem/VOA7.i/021110v7/7y433.d
Report Date: 22-Feb-2010 07:33

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021110v7/7y433.d

Lab Smp Id: 246330003

Client Smp ID: RE15-10-8305

Inj Date : 12-FEB-2010 03:28

Operator : AX01

Inst ID: VOA7.i

Smp Info : |246330003|952150|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

Meth Date : 22-Feb-2010 06:38 ale01592

Quant Type: ISTD

Cal Date : 03-FEB-2010 00:25

Cal File: 7x216.d

Als bottle: 33

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1567.sub

Target Version: 3.50

Processing Host: prdsrv07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	38.37490	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 51 Fluorobenzene	96	15.317	15.317 (1.000)	733719	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667 (1.000)	320554	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.991 (1.000)	70830	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880 (0.971)	329881	49.0869	79.6
\$ 64 Toluene-d8	98	17.134	17.134 (0.918)	717846	75.9545	123(R)
\$ 86 Bromofluorobenzene	95	19.814	19.814 (0.944)	143222	77.6447	126(R)
13 Acetone	43	10.454	10.413 (0.683)	46904	8.70554	14.1
65 Toluene	92	17.215	17.215 (0.922)	3959	0.69289	1.1(a)
99 4-Isopropyltoluene	119	20.860	20.860 (0.994)	19054	5.27051	8.6(Q)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.

ION RATIO REPORT

VOA REPORT

Data file: 7y433.d

Report Date: 02/12/2010 09:40

Lab. ID: 246330003

SampleType: SAMPLE

Injection Date: 12-FEB-2010 03:28

Operator: AX01

Instrument: VOA7.i

Sample Info: |246330003|952150|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1567

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
13	Acetone		CAS#: 67-64-1			
43	46904	10.45	10.41	80-120	100	()
58	11505	10.45	10.41	0- 58	25	()

63	4-Methyl-2-pentanone		CAS#: 108-10-1			
58	9043	17.13	16.94	80-120	100	(T)
43	5912	17.13	16.94	217-277	65	(QT)
100	480380	17.13	16.94	0- 58	5312	(QT)

65	Toluene		CAS#: 108-88-3			
92	3959	17.22	17.21	80-120	100	()
91	6365	17.22	17.21	133-193	161	()

91	n-Propylbenzene		CAS#: 103-65-1			
91	7284	19.97	20.03	80-120	100	(T)
120	1462	20.24	20.03	0- 52	20	(T)

92	1,3,5-Trimethylbenzene		CAS#: 108-67-8			
105	1113	20.24	20.17	80-120	100	(T)
120	1462	20.24	20.17	16- 76	131	(QT)

96	1,2,4-Trimethylbenzene		CAS#: 95-63-6			
105	3400	20.62	20.57	80-120	100	()
120	1784	20.86	20.57	18- 78	52	(T)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
95 tert-Butylbenzene		CAS#: 98-06-6				
119	2094	20.63	20.52	80-120	100	(T)
91	14249	20.62	20.52	54-114	680	(QT)
134	4759	20.86	20.53	0- 52	227	(QT)

98 sec-Butylbenzene		CAS#: 135-98-8				
105	3511	20.84	20.75	80-120	100	(T)
134	4759	20.86	20.75	0- 50	136	(QT)

99 4-Isopropyltoluene		CAS#: 99-87-6				
119	19054	20.86	20.86	80-120	100	()
134	4759	20.86	20.86	0- 58	25	()
91	16849	20.84	20.86	0- 60	88	(Q)

104 n-Butylbenzene		CAS#: 104-51-8				
91	1413	21.14	21.30	80-120	100	(T)
92	412	21.13	21.30	27- 87	29	(T)
134	4759	20.86	21.30	0- 54	337	(QT)

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
 Data file : /chem/VOA7.i/021110v7/7y433.d
 Lab Smp Id: 246330003 Client Smp ID: RE15-10-8305
 Inj Date : 12-FEB-2010 03:28
 Operator : AX01 Inst ID: VOA7.i
 Smp Info : |246330003|952150|1|VOAF|1|
 Misc Info : LANL 5g N/A
 Comment :
 Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m
 Meth Date : 22-Feb-2010 06:38 ale01592 Quant Type: ISTD
 Cal Date : 03-FEB-2010 00:25 Cal File: 7x216.d
 Als bottle: 33
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1567.sub
 Target Version: 3.50
 Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	38.37490	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 75 Chlorobenzene-d5	18.667	1215035	50.000
* 101 1,4-Dichlorobenzene-d4	20.992	520006	50.000

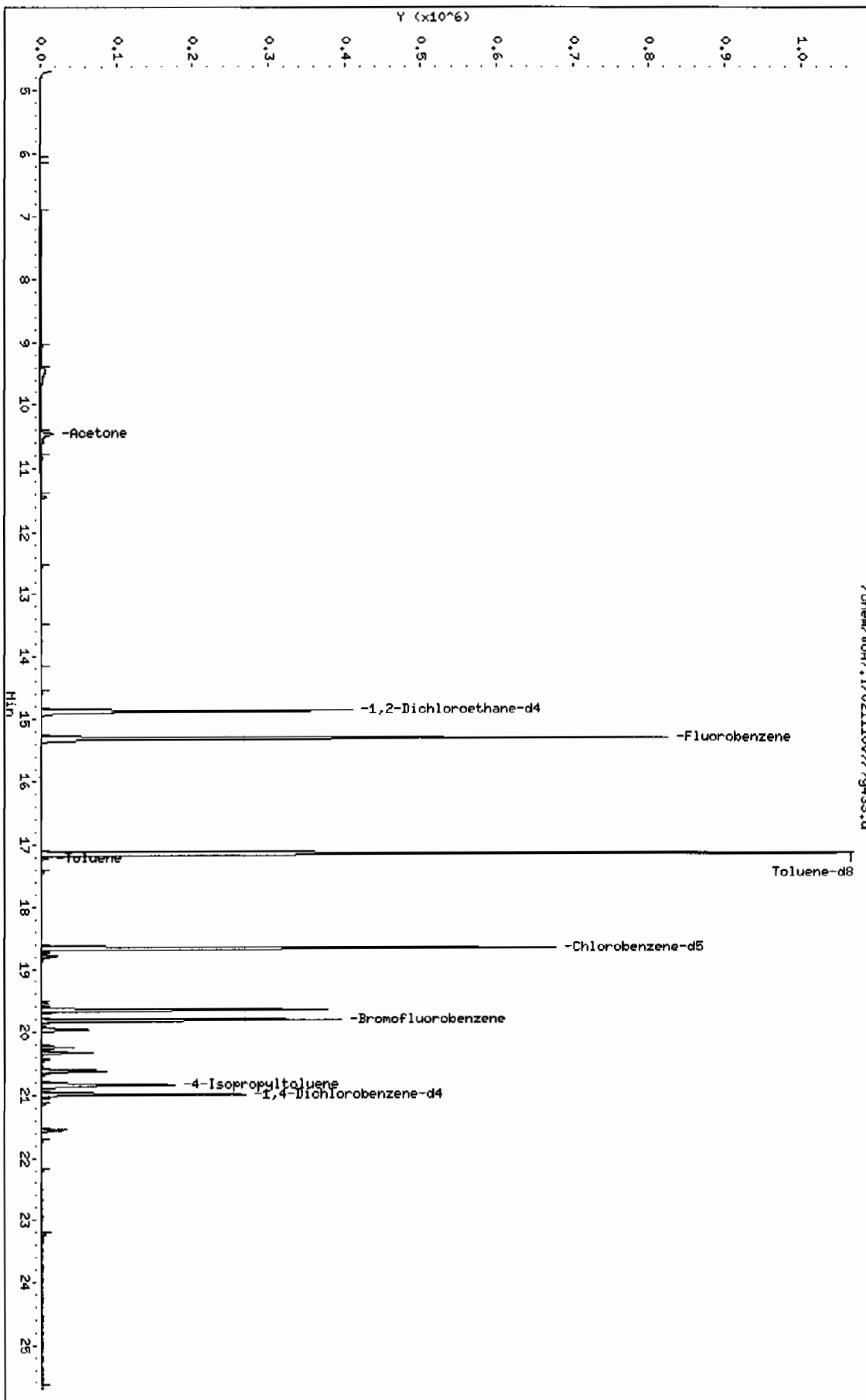
CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ug/l)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
19.651	659747	27.1493047	44.0	0		0	75

Unknown Hydrocarbon CAS #:

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ug/l)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
Unknown Hydrocarbon					CAS #:		
19.966	121818	11.7131325	19.0	0		0	101
Unknown Alkene					CAS #:		
20.240	71910	6.91436403	11.2	0		0	101(L)
Unknown Hydrocarbon					CAS #:		
20.332	123296	11.8552388	19.2	0		0	101
Unknown Hydrocarbon					CAS #:		
20.616	144805	13.9233716	22.6	0		0	101
Unknown Siloxane					CAS #:		
21.550	69707	6.70253403	10.9	0		0	101

QC Flag Legend

L - Operator selected an alternate library search match.



Data File: /chem/V0A7.i/021110v7/7g433.d
 Date : 12-FEB-2010 03:28
 Client ID: RE15-10-8305
 Sample Info: 1246330003195215011V0AF111
 Column phase: DB-624

Instrument: V0A7.i
 Operator: AX01
 Column diameter: 0.25

Date : 12-FEB-2010 03:28

Client ID: RE15-10-8305

Instrument: V0A7.i

Sample Info: 1246330003195215011V0AF111

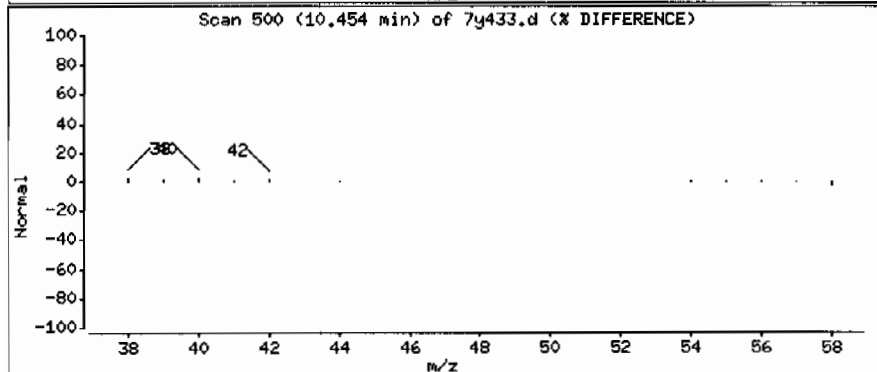
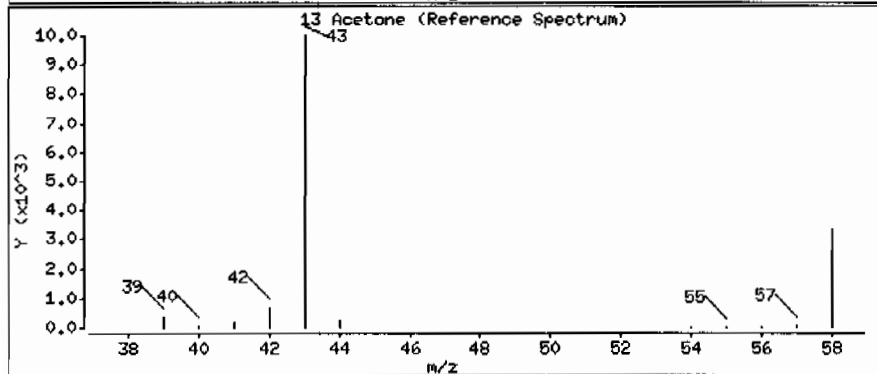
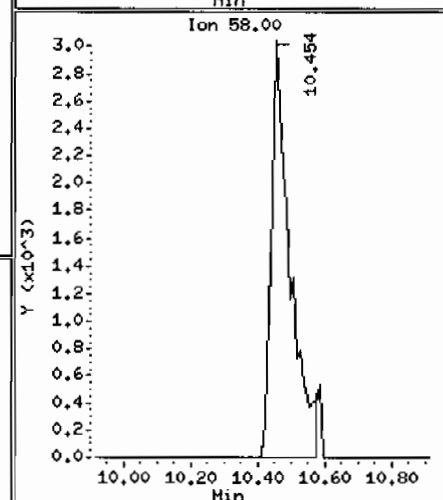
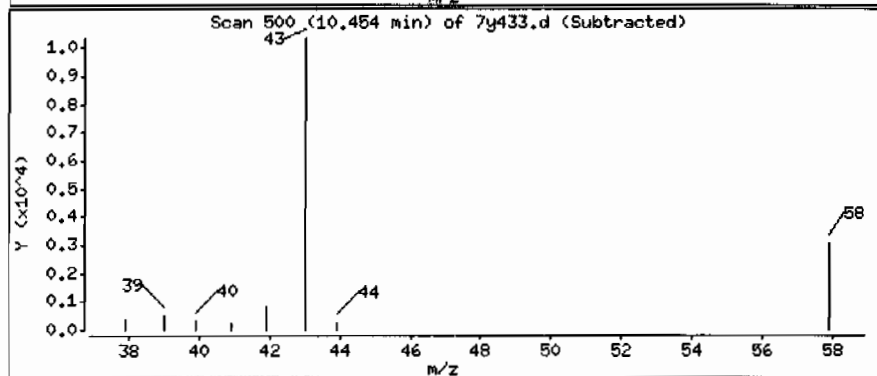
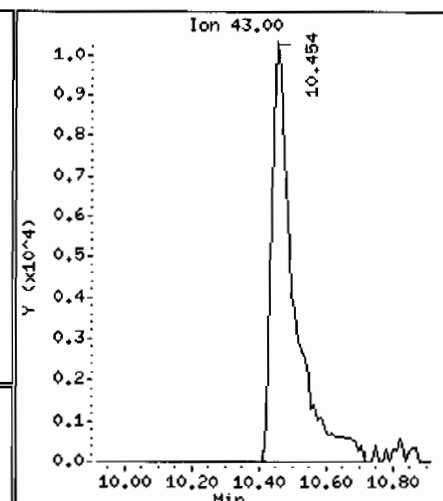
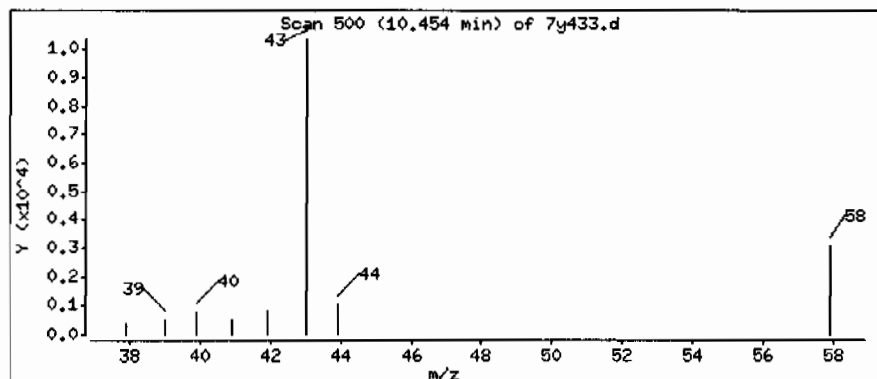
Operator: AX01

Column phase: DB-624

Column diameter: 0,25

13 Acetone

Concentration: 14.1 ug/Kg



Date : 12-FEB-2010 03:28

Client ID: RE15-10-8305

Instrument: VOA7.i

Sample Info: 1246330003195215011\VOAF11

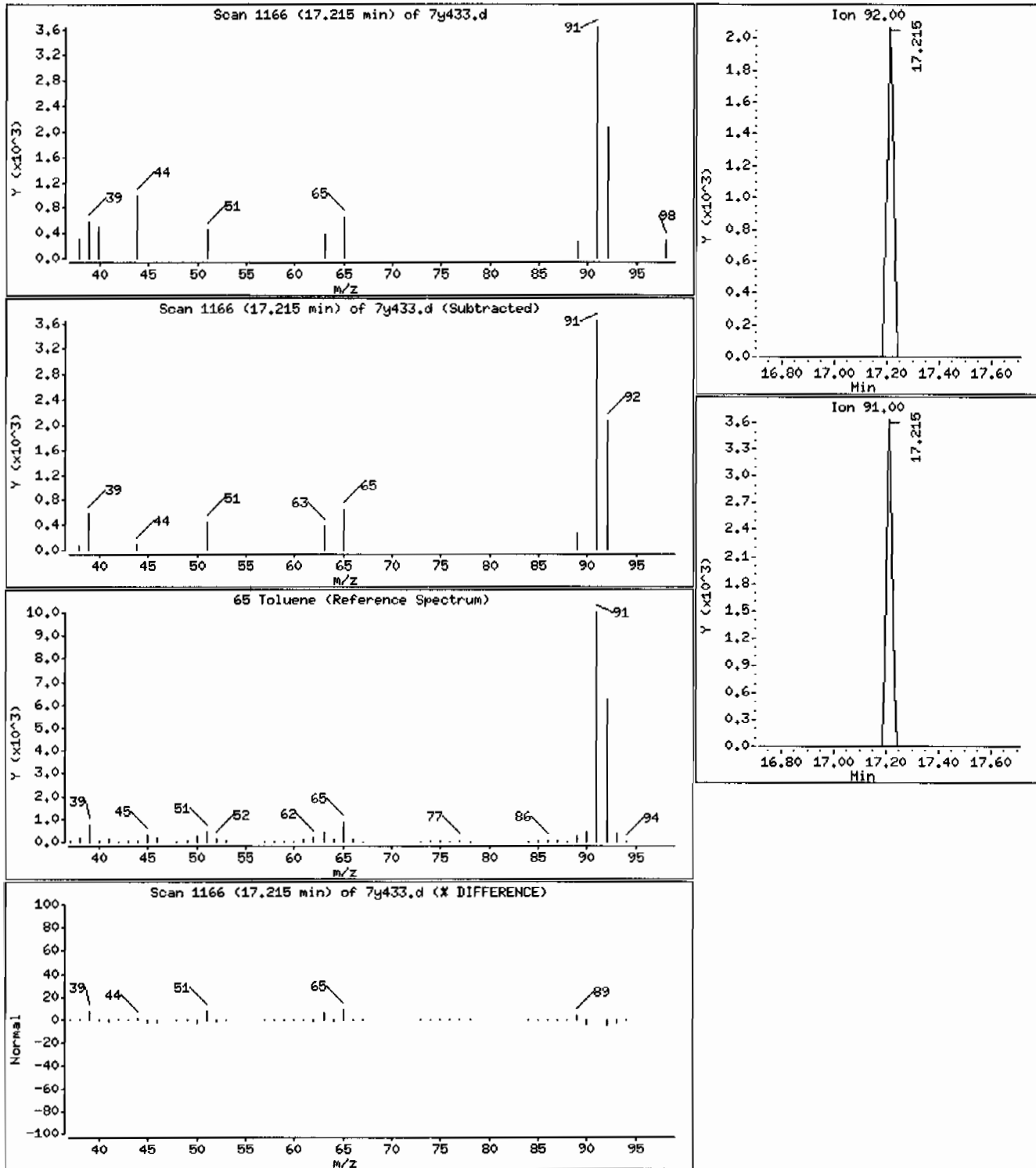
Operator: AX01

Column phase: DB-624

Column diameter: 0.25

65 Toluene

Concentration: 1.1 ug/Kg



Date : 12-FEB-2010 03:28

Client ID: RE15-10-8305

Instrument: VOA7.i

Sample Info: 1246330003195215011\VOAF11

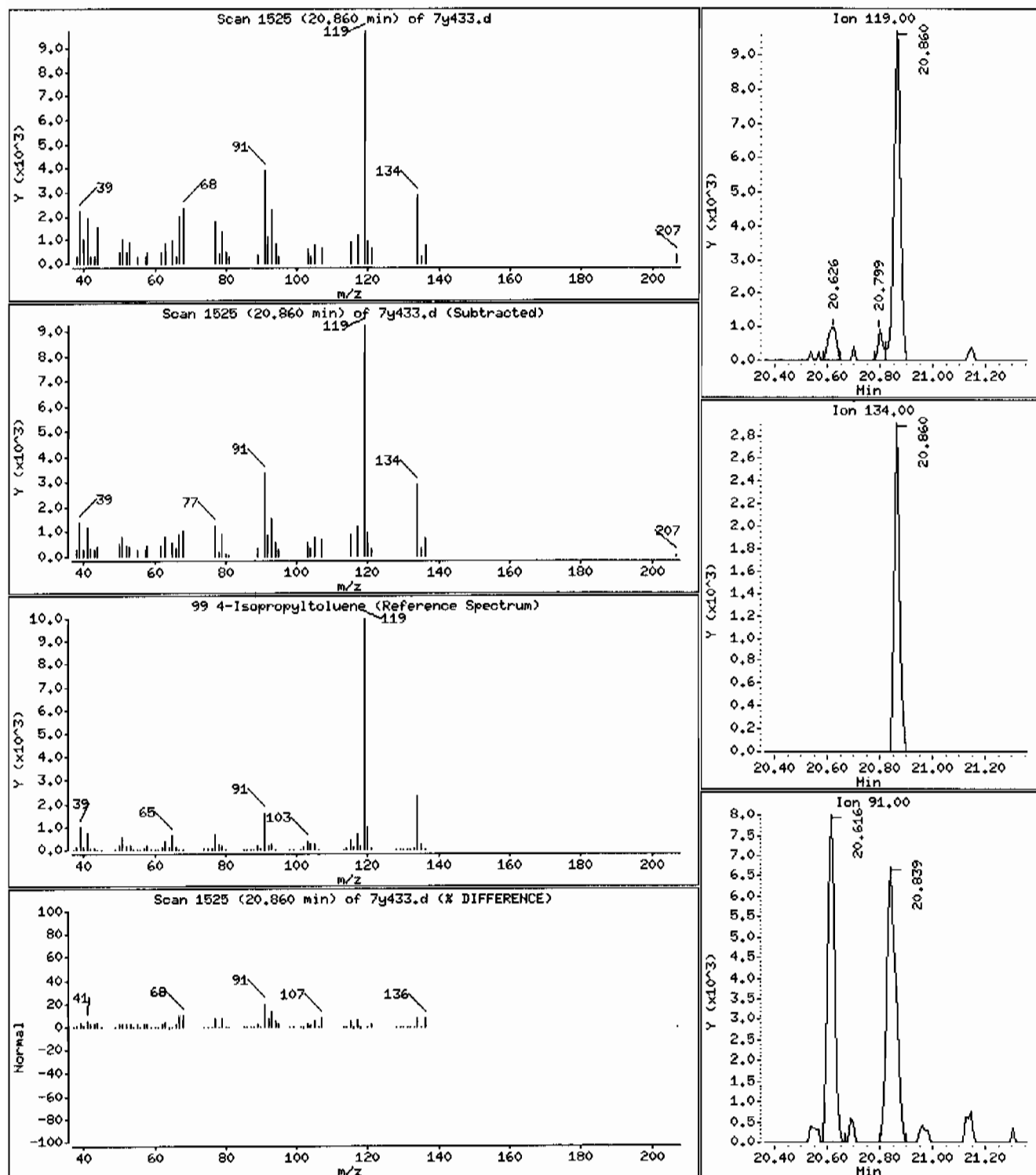
Operator: AX01

Column phase: DB-624

Column diameter: 0.25

99 4-Isopropyltoluene

Concentration: 8.6 ug/Kg



Date : 12-FEB-2010 03:28

Client ID: RE15-10-8305

Instrument: VOA7.i

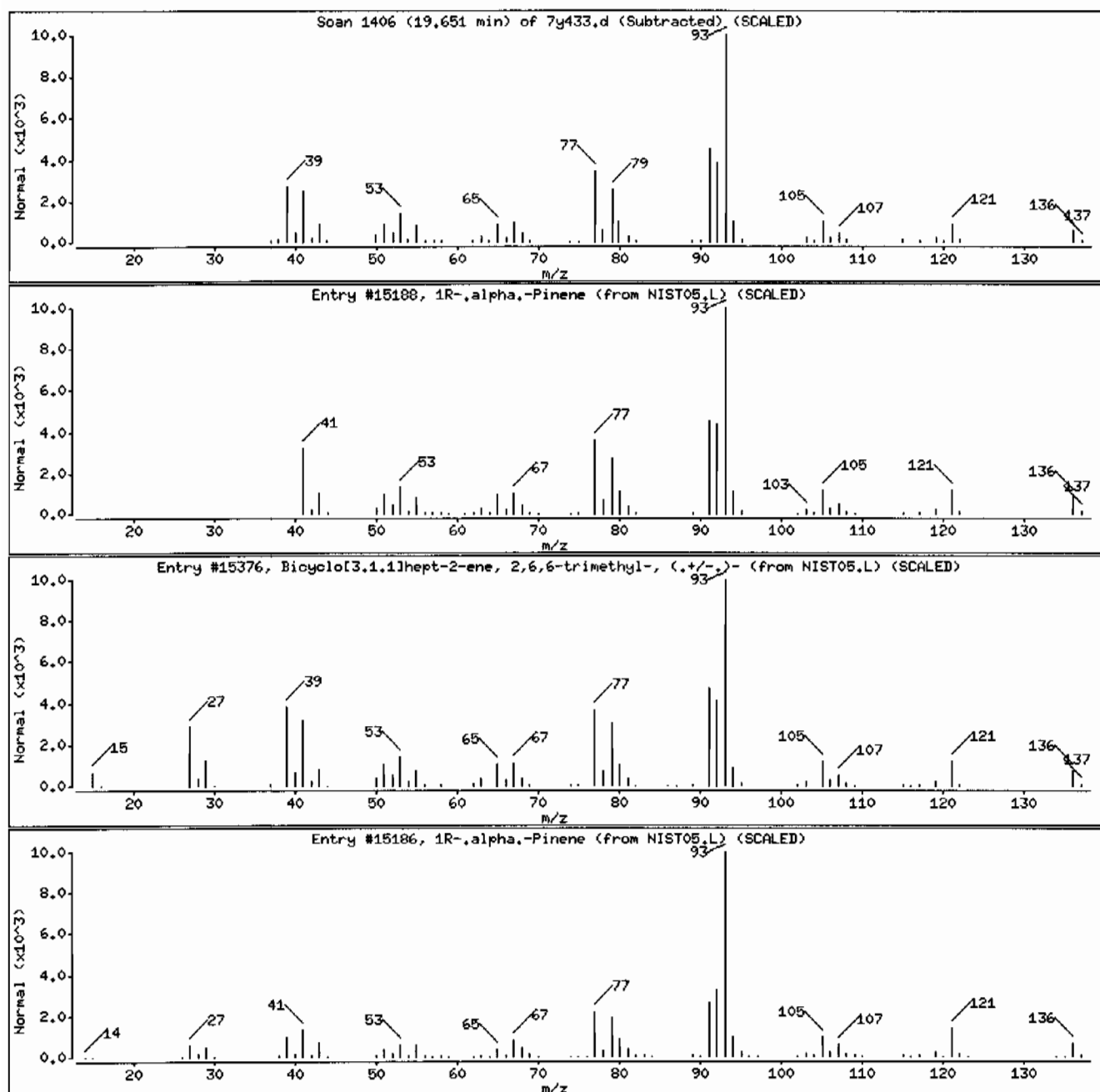
Sample Info: 12463300031952150111VOAF111

Operator: AXD1

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Hydrocarbon						
1R-,alpha,-Pinene	7785-70-8	NIST05.L	15188	97	C10H16	136
Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-	2437-95-8	NIST05.L	15376	96	C10H16	136
1R-,alpha,-Pinene	7785-70-8	NIST05.L	15186	95	C10H16	136



Date : 12-FEB-2010 03:28

Client ID: RE15-10-8305

Instrument: V0A7.i

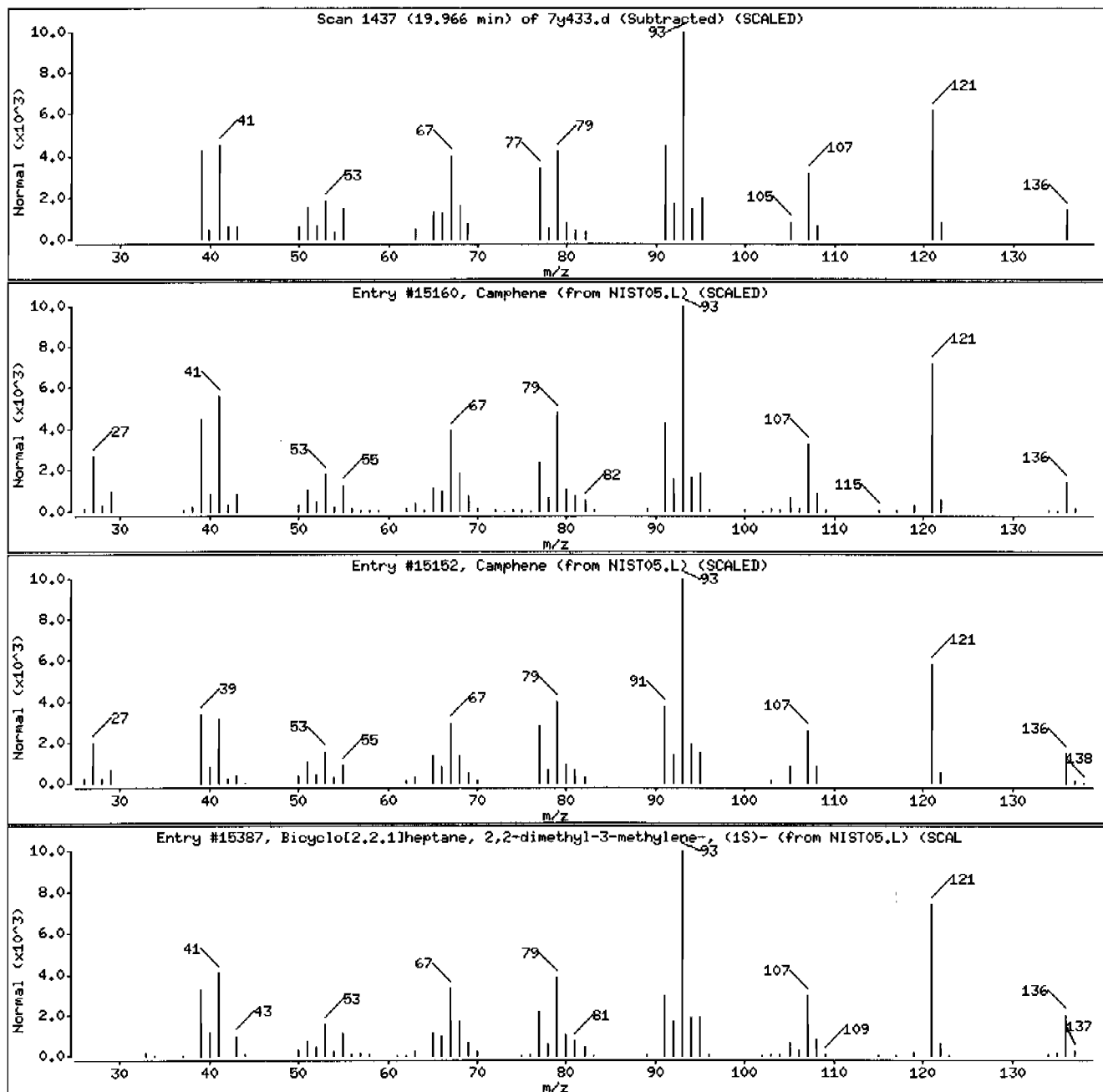
Sample Info: I246330003195215011V0AF111

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Hydrocarbon						
Camphene	79-92-5	NIST05.L	15160	97	C10H16	136
Camphene	79-92-5	NIST05.L	15152	94	C10H16	136
Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-me	5794-04-7	NIST05.L	15387	93	C10H16	136



Date: 12-FEB-2010 03:28

Client ID: RE15-10-8305

Instrument: VOA7.i

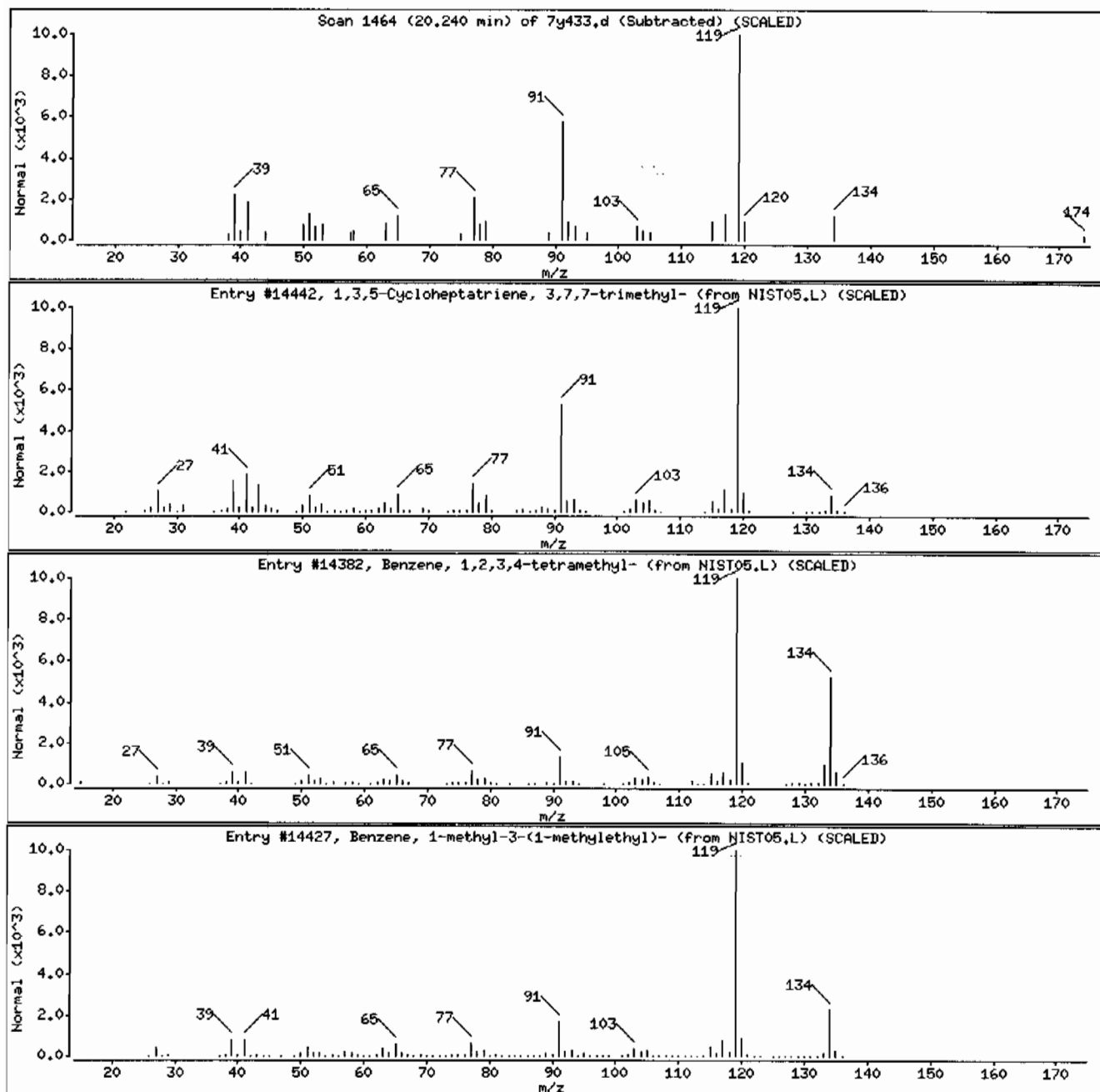
Sample Info: 1246330003195215011\VOAF111

Operator: AXD1

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkene						
1,3,5-Cycloheptatriene, 3,7,7-trimethyl-	3479-89-8	NIST05.L	14442	87	C10H14	134
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NIST05.L	14382	86	C10H14	134
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NIST05.L	14427	83	C10H14	134



Date : 12-FEB-2010 03:28

Client ID: RE15-10-8305

Instrument: VOA7.i

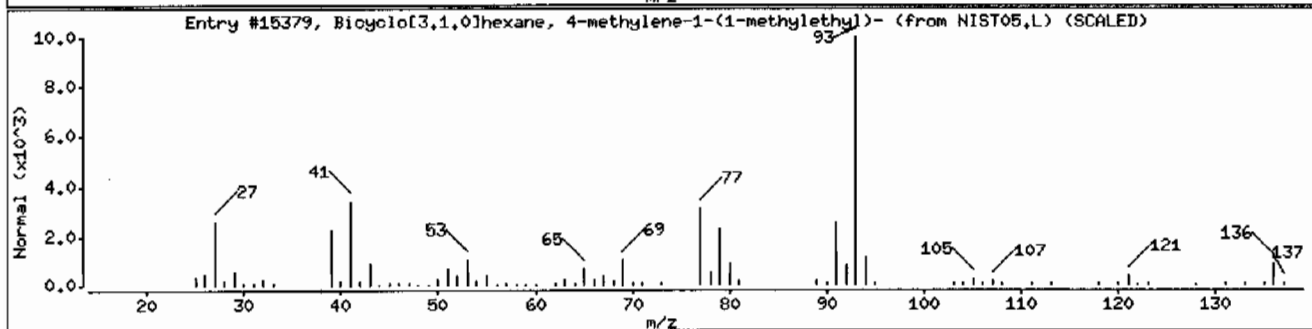
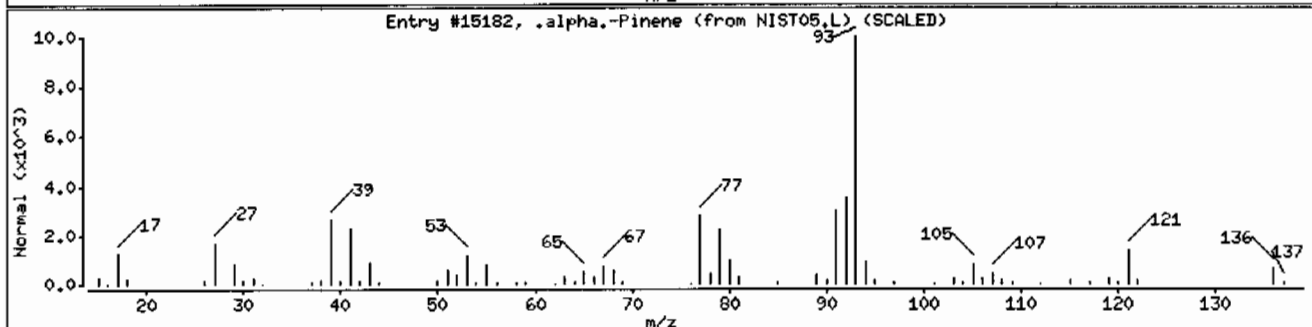
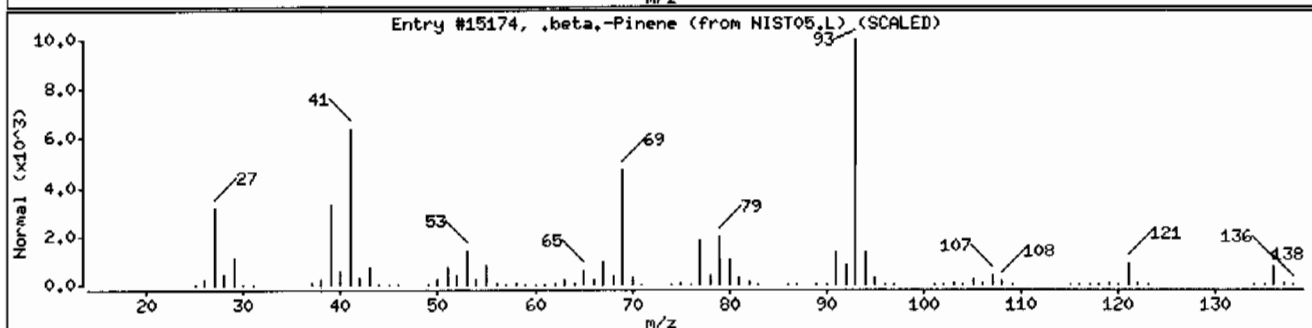
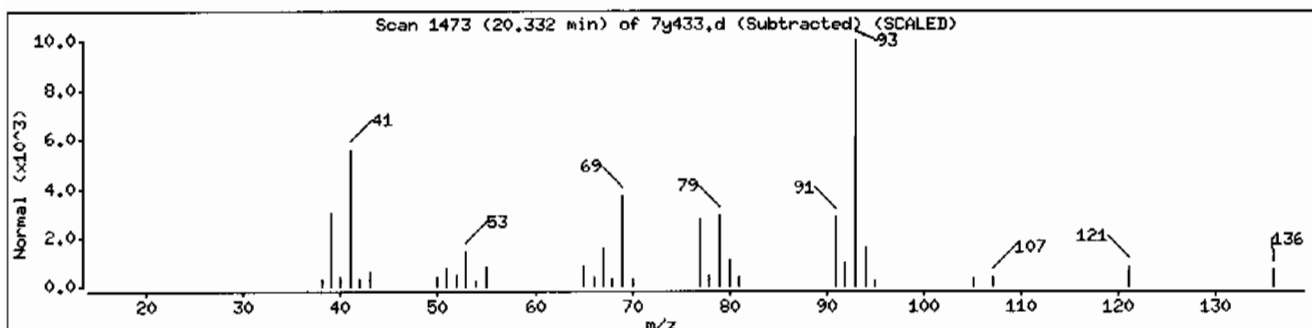
Sample Info: 1246330003195215011\VOAF111

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Hydrocarbon						
.beta.-Pinene	127-91-3	NIST05.L	15174	87	C10H16	136
.alpha.-Pinene	80-56-8	NIST05.L	15182	80	C10H16	136
Bicyclo[3,1,0]hexane, 4-methylene-1-(1-m	3387-41-5	NIST05.L	15379	80	C10H16	136



Date : 12-FEB-2010 03:28

Client ID: RE15-10-8305

Instrument: VDA7.i

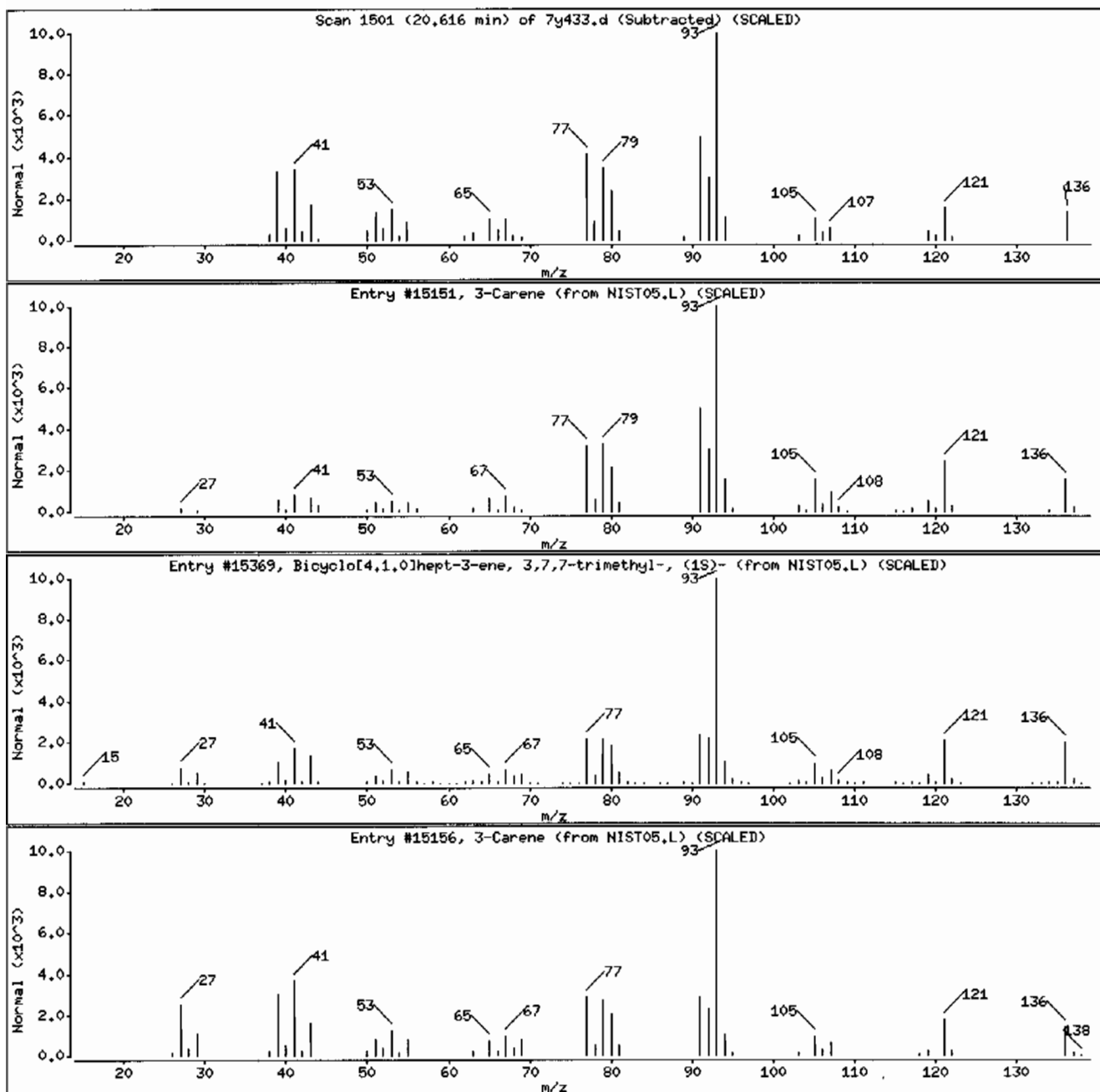
Sample Info: 12463300031952150111VDA7.i11

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Hydrocarbon						
3-Carene	13466-78-9	NIST05.L	15151	97	C10H16	136
Bicyclo[4.1.0]hept-3-ene, 3,7,7-trimethyl	498-15-7	NIST05.L	15369	95	C10H16	136
3-Carene	13466-78-9	NIST05.L	15156	93	C10H16	136



Date : 12-FEB-2010 03:28

Client ID: RE15-10-8305

Instrument: V0A7.i

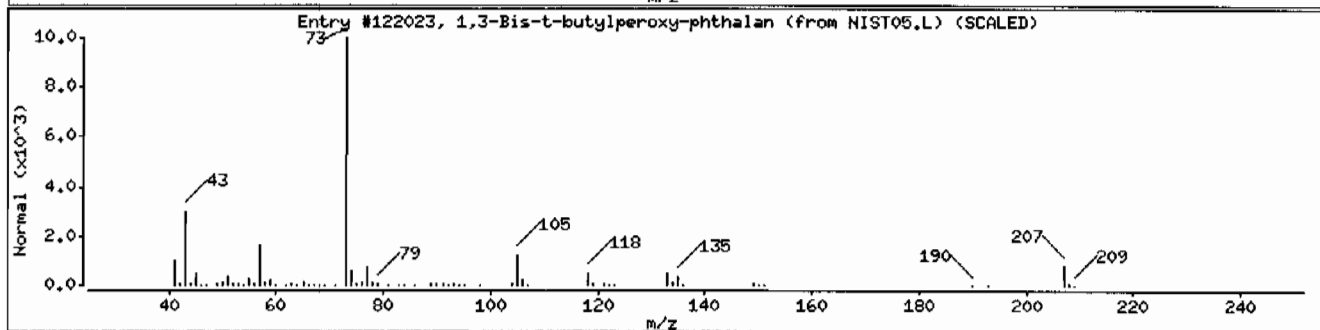
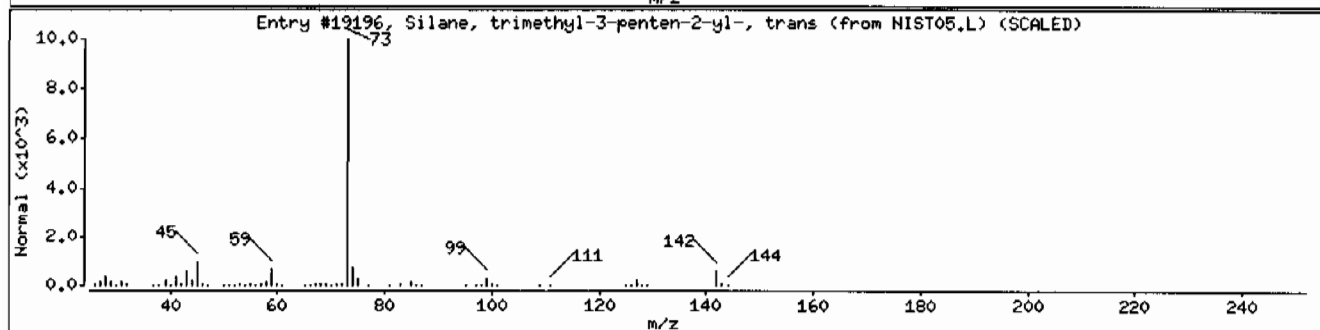
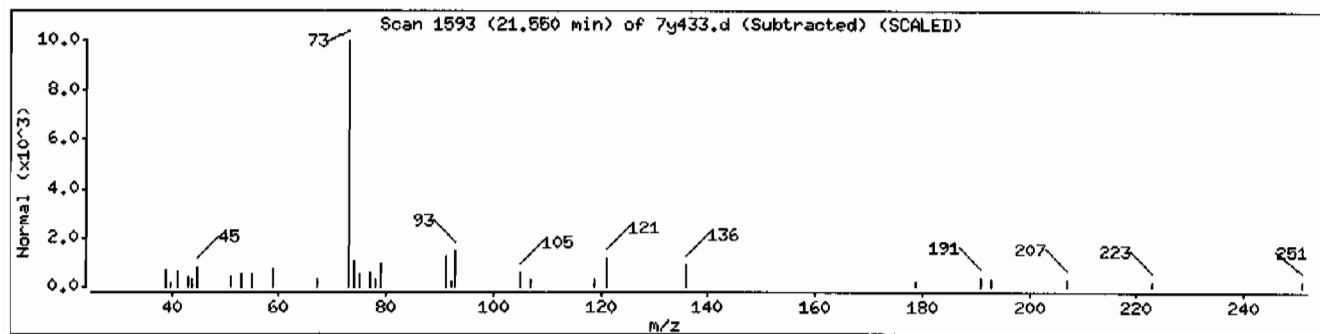
Sample Info: I246330003I95215011IV0AFI1I

Operator: AX01

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Siloxane						
Silane, trimethyl-3-penten-2-yl-, trans	53264-56-6	NIST05.L	19196	10	C8H18Si	142
1,3-Bis-t-butylperoxy-phthalan	97526-35-7	NIST05.L	122023	10	C16H24O5	296



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330004	Date Received: 02/05/2010 09:00	%Moisture: 21.2
	Client: LANL.010	Project: LANL01004
Client ID: RE15-10-8306	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952150	Inst: VOA7.I	Dilution: 1
Run Date: 02/12/2010 04:03	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/11/2010 14:20	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7y434.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.27	ug/kg	0.432	1.27
74-87-3	Chloromethane	U	1.27	ug/kg	0.381	1.27
75-01-4	Vinyl chloride	U	1.27	ug/kg	0.381	1.27
74-83-9	Bromomethane	U	1.27	ug/kg	0.381	1.27
75-00-3	Chloroethane	U	1.27	ug/kg	0.381	1.27
75-69-4	Trichlorofluoromethane	U	1.27	ug/kg	0.381	1.27
67-64-1	Acetone	U	6.35	ug/kg	2.11	6.35
75-35-4	1,1-Dichloroethylene	U	1.27	ug/kg	0.381	1.27
74-88-4	Iodomethane	U	6.35	ug/kg	2.03	6.35
75-09-2	Methylene chloride	U	6.35	ug/kg	2.54	6.35
75-15-0	Carbon disulfide	U	6.35	ug/kg	1.59	6.35
156-60-5	trans-1,2-Dichloroethylene	U	1.27	ug/kg	0.381	1.27
75-34-3	1,1-Dichloroethane	U	1.27	ug/kg	0.381	1.27
78-93-3	2-Butanone	U	6.35	ug/kg	1.90	6.35
156-59-2	cis-1,2-Dichloroethylene	U	1.27	ug/kg	0.381	1.27
594-20-7	2,2-Dichloropropane	U	1.27	ug/kg	0.381	1.27
67-66-3	Chloroform	U	1.27	ug/kg	0.381	1.27
74-97-5	Bromochloromethane	U	1.27	ug/kg	0.419	1.27
71-55-6	1,1,1-Trichloroethane	U	1.27	ug/kg	0.381	1.27
563-58-6	1,1-Dichloropropene	U	1.27	ug/kg	0.381	1.27
56-23-5	Carbon tetrachloride	U	1.27	ug/kg	0.381	1.27
107-06-2	1,2-Dichloroethane	U	1.27	ug/kg	0.381	1.27
71-43-2	Benzene	U	1.27	ug/kg	0.381	1.27
79-01-6	Trichloroethylene	U	1.27	ug/kg	0.419	1.27
78-87-5	1,2-Dichloropropane	U	1.27	ug/kg	0.381	1.27
75-27-4	Bromodichloromethane	U	1.27	ug/kg	0.381	1.27
74-95-3	Dibromomethane	U	1.27	ug/kg	0.381	1.27
108-10-1	4-Methyl-2-pentanone	U	6.35	ug/kg	1.59	6.35
10061-01-5	cis-1,3-Dichloropropylene	U	1.27	ug/kg	0.381	1.27
108-88-3	Toluene	U	1.27	ug/kg	0.381	1.27
10061-02-6	trans-1,3-Dichloropropylene	U	1.27	ug/kg	0.381	1.27
79-00-5	1,1,2-Trichloroethane	U	1.27	ug/kg	0.381	1.27
591-78-6	2-Hexanone	U	6.35	ug/kg	1.90	6.35
142-28-9	1,3-Dichloropropane	U	1.27	ug/kg	0.381	1.27
127-18-4	Tetrachloroethylene	U	1.27	ug/kg	0.381	1.27
124-48-1	Dibromochloromethane	U	1.27	ug/kg	0.381	1.27
106-93-4	1,2-Dibromoethane	U	1.27	ug/kg	0.381	1.27
108-90-7	Chlorobenzene	U	1.27	ug/kg	0.381	1.27

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 246330004

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.1
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 21.2
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE15-10-8306
 Batch ID: 952150
 Run Date: 02/12/2010 04:03
 Prep Date: 02/11/2010 14:20
 Data File: 7y434.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.27	ug/kg	0.381	1.27
179601-23-1	m,p-Xylenes	U	2.54	ug/kg	0.381	2.54
95-47-6	o-Xylene	U	1.27	ug/kg	0.381	1.27
100-42-5	Styrene	U	1.27	ug/kg	0.381	1.27
75-25-2	Bromoform	U	1.27	ug/kg	0.381	1.27
79-34-5	1,1,2,2-Tetrachloroethane	U	1.27	ug/kg	0.381	1.27
96-18-4	1,2,3-Trichloropropane	U	1.27	ug/kg	0.381	1.27
108-86-1	Bromobenzene	U	1.27	ug/kg	0.381	1.27
103-65-1	n-Propylbenzene	U	1.27	ug/kg	0.381	1.27
95-49-8	2-Chlorotoluene	U	1.27	ug/kg	0.381	1.27
98-82-8	Isopropylbenzene	U	1.27	ug/kg	0.381	1.27
108-67-8	1,3,5-Trimethylbenzene	U	1.27	ug/kg	0.381	1.27
106-43-4	4-Chlorotoluene	U	1.27	ug/kg	0.381	1.27
98-06-6	tert-Butylbenzene	U	1.27	ug/kg	0.381	1.27
95-63-6	1,2,4-Trimethylbenzene	U	1.27	ug/kg	0.381	1.27
135-98-8	sec-Butylbenzene	U	1.27	ug/kg	0.381	1.27
99-87-6	4-Isopropyltoluene	U	1.27	ug/kg	0.381	1.27
541-73-1	1,3-Dichlorobenzene	U	1.27	ug/kg	0.381	1.27
106-46-7	1,4-Dichlorobenzene	U	1.27	ug/kg	0.381	1.27
104-51-8	n-Butylbenzene	U	1.27	ug/kg	0.381	1.27
96-12-8	1,2-Dibromo-3-chloropropane	U	1.27	ug/kg	0.381	1.27
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.35	ug/kg	2.03	6.35
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.27	ug/kg	0.381	1.27
95-50-1	1,2-Dichlorobenzene	U	1.27	ug/kg	0.381	1.27

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
No Tentatively Identified Compounds Found				ug/kg		

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021110v7/7y434.d

Lab Smp Id: 246330004

Client Smp ID: RE15-10-8306

Inj Date : 12-FEB-2010 04:03

Operator : AX01

Inst ID: VOA7.i

Smp Info : |246330004|952150|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

Meth Date : 22-Feb-2010 06:38 ale01592 Quant Type: ISTD

Cal Date : 03-FEB-2010 00:25

Cal File: 7x216.d

Als bottle: 34

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1567.sub

Target Version: 3.50

Processing Host: prdsrv07

Concentration Formula: Amt * DF * (100/(100-M)) * (Vt/Ws) * (Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	21.23230	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
							(ug/l)	(ug/Kg)
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	871573		50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	548929		50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.991	(1.000)	197244		50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	379606		47.5518	60.4
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	927306		57.2968	72.7
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	313663		61.0631	77.5

ION RATIO REPORT

VOA REPORT

Data file: 7y434.d

Report Date: 02/12/2010 09:40

Lab. ID: 246330004

SampleType: SAMPLE

Injection Date: 12-FEB-2010 04:03

Operator: AX01

Instrument: VOA7.i

Sample Info: |246330004|952150|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1567

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	10788	17.13	16.94	80-120	100	(T)
43	6803	17.14	16.94	217-277	63	(QT)
100	617092	17.13	16.94	0- 58	5720	(QT)

73	1,2-Dibromoethane			CAS#: 106-93-4		
107	1499	18.65	18.22	80-120	100	(T)
109	669	18.66	18.22	65-125	45	(QT)

82	Bromoform			CAS#: 75-25-2		
173	917	19.81	19.54	80-120	100	(T)
175	14154	19.81	19.54	18- 78	1543	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/021110v7/7y434.d
Report Date: 22-Feb-2010 07:35

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/021110v7/7y434.d
Lab Smp Id: 246330004 Client Smp ID: RE15-10-8306
Inj Date : 12-FEB-2010 04:03
Operator : AX01 Inst ID: VOA7.i
Smp Info : |246330004|952150|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m
Meth Date : 22-Feb-2010 06:38 ale01592 Quant Type: ISTD
Cal Date : 03-FEB-2010 00:25 Cal File: 7x216.d
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.sub
Target Version: 3.50
Processing Host: prdsvr07

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

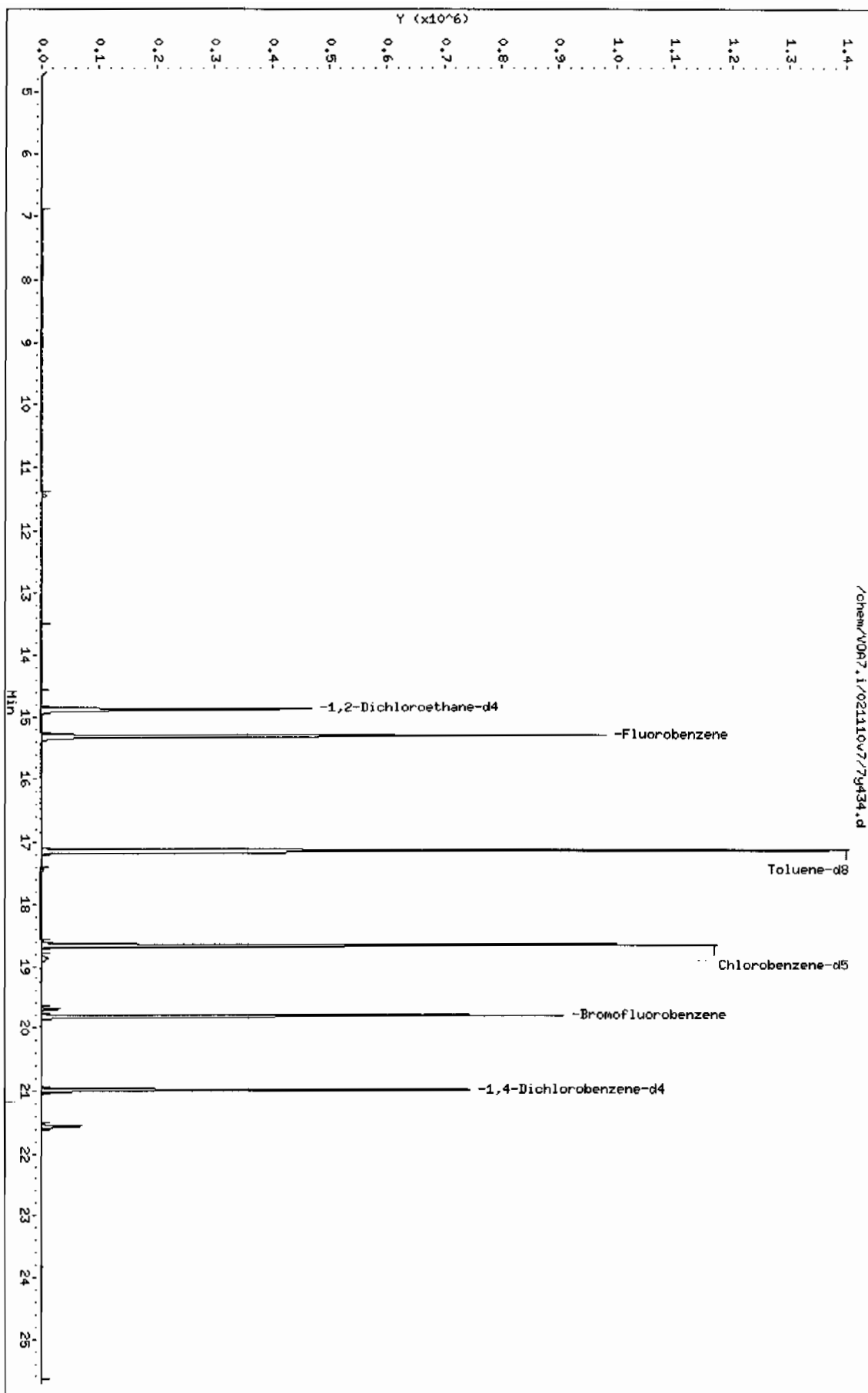
Data File: /chem/V067.1/021107/79434.d
Date: 12-FEB-2010 04:03
Client ID: RE15-10-8306
Sample Info: 1246330004196215011|V06F11

Column phase: DB-624

Instrument: V067.i

Operator: RX01

Column diameter: 0.25



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 246330005

Client ID: RE15-10-8307
 Batch ID: 952150
 Run Date: 02/12/2010 04:37
 Prep Date: 02/11/2010 14:22
 Data File: 7y435.d

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 14.4
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.17	ug/kg	0.397	1.17
74-87-3	Chloromethane	U	1.17	ug/kg	0.351	1.17
75-01-4	Vinyl chloride	U	1.17	ug/kg	0.351	1.17
74-83-9	Bromomethane	U	1.17	ug/kg	0.351	1.17
75-00-3	Chloroethane	U	1.17	ug/kg	0.351	1.17
75-69-4	Trichlorofluoromethane	U	1.17	ug/kg	0.351	1.17
67-64-1	Acetone	U	5.84	ug/kg	1.94	5.84
75-35-4	1,1-Dichloroethylene	U	1.17	ug/kg	0.351	1.17
74-88-4	Iodomethane	U	5.84	ug/kg	1.87	5.84
75-09-2	Methylene chloride	U	5.84	ug/kg	2.34	5.84
75-15-0	Carbon disulfide	U	5.84	ug/kg	1.46	5.84
156-60-5	trans-1,2-Dichloroethylene	U	1.17	ug/kg	0.351	1.17
75-34-3	1,1-Dichloroethane	U	1.17	ug/kg	0.351	1.17
78-93-3	2-Butanone	U	5.84	ug/kg	1.75	5.84
156-59-2	cis-1,2-Dichloroethylene	U	1.17	ug/kg	0.351	1.17
594-20-7	2,2-Dichloropropane	U	1.17	ug/kg	0.351	1.17
67-66-3	Chloroform	U	1.17	ug/kg	0.351	1.17
74-97-5	Bromochloromethane	U	1.17	ug/kg	0.386	1.17
71-55-6	1,1,1-Trichloroethane	U	1.17	ug/kg	0.351	1.17
563-58-6	1,1-Dichloropropene	U	1.17	ug/kg	0.351	1.17
56-23-5	Carbon tetrachloride	U	1.17	ug/kg	0.351	1.17
107-06-2	1,2-Dichloroethane	U	1.17	ug/kg	0.351	1.17
71-43-2	Benzene	U	1.17	ug/kg	0.351	1.17
79-01-6	Trichloroethylene	U	1.17	ug/kg	0.386	1.17
78-87-5	1,2-Dichloropropane	U	1.17	ug/kg	0.351	1.17
75-27-4	Bromodichloromethane	U	1.17	ug/kg	0.351	1.17
74-95-3	Dibromomethane	U	1.17	ug/kg	0.351	1.17
108-10-1	4-Methyl-2-pentanone	U	5.84	ug/kg	1.46	5.84
10061-01-5	cis-1,3-Dichloropropylene	U	1.17	ug/kg	0.351	1.17
108-88-3	Toluene	U	1.17	ug/kg	0.351	1.17
10061-02-6	trans-1,3-Dichloropropylene	U	1.17	ug/kg	0.351	1.17
79-00-5	1,1,2-Trichloroethane	U	1.17	ug/kg	0.351	1.17
591-78-6	2-Hexanone	U	5.84	ug/kg	1.75	5.84
142-28-9	1,3-Dichloropropane	U	1.17	ug/kg	0.351	1.17
127-18-4	Tetrachloroethylene	U	1.17	ug/kg	0.351	1.17
124-48-1	Dibromochloromethane	U	1.17	ug/kg	0.351	1.17
106-93-4	1,2-Dibromoethane	U	1.17	ug/kg	0.351	1.17
108-90-7	Chlorobenzene	U	1.17	ug/kg	0.351	1.17

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1567
Lab Sample ID: 246330005

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 14.4
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.17	ug/kg	0.351	1.17
179601-23-1	m,p-Xylenes	U	2.34	ug/kg	0.351	2.34
95-47-6	o-Xylene	U	1.17	ug/kg	0.351	1.17
100-42-5	Styrene	U	1.17	ug/kg	0.351	1.17
75-25-2	Bromoform	U	1.17	ug/kg	0.351	1.17
79-34-5	1,1,2,2-Tetrachloroethane	U	1.17	ug/kg	0.351	1.17
96-18-4	1,2,3-Trichloropropane	U	1.17	ug/kg	0.351	1.17
108-86-1	Bromobenzene	U	1.17	ug/kg	0.351	1.17
103-65-1	n-Propylbenzene	U	1.17	ug/kg	0.351	1.17
95-49-8	2-Chlorotoluene	U	1.17	ug/kg	0.351	1.17
98-82-8	Isopropylbenzene	U	1.17	ug/kg	0.351	1.17
108-67-8	1,3,5-Trimethylbenzene	U	1.17	ug/kg	0.351	1.17
106-43-4	4-Chlorotoluene	U	1.17	ug/kg	0.351	1.17
98-06-6	tert-Butylbenzene	U	1.17	ug/kg	0.351	1.17
95-63-6	1,2,4-Trimethylbenzene	U	1.17	ug/kg	0.351	1.17
135-98-8	sec-Butylbenzene	U	1.17	ug/kg	0.351	1.17
99-87-6	4-Isopropyltoluene	U	1.17	ug/kg	0.351	1.17
541-73-1	1,3-Dichlorobenzene	U	1.17	ug/kg	0.351	1.17
106-46-7	1,4-Dichlorobenzene	U	1.17	ug/kg	0.351	1.17
104-51-8	n-Butylbenzene	U	1.17	ug/kg	0.351	1.17
96-12-8	1,2-Dibromo-3-chloropropane	U	1.17	ug/kg	0.351	1.17
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.84	ug/kg	1.87	5.84
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.17	ug/kg	0.351	1.17
95-50-1	1,2-Dichlorobenzene	U	1.17	ug/kg	0.351	1.17

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
No Tentatively Identified Compounds Found				ug/kg		

Data File: /chem/VOA7.i/021110v7/7y435.d
 Report Date: 22-Feb-2010 07:36

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021110v7/7y435.d

Lab Smp Id: 246330005

Client Smp ID: RE15-10-8307

Inj Date : 12-FEB-2010 04:37

Operator : AX01

Inst ID: VOA7.i

Smp Info : |246330005|952150|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

Meth Date : 22-Feb-2010 06:38 ale01592

Quant Type: ISTD

Cal Date : 03-FEB-2010 00:25

Cal File: 7x216.d

Als bottle: 35

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1567.sub

Target Version: 3.50

Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	14.44140	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 51 Fluorobenzene	96	15.316	15.317 (1.000)	853351	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667 (1.000)	528928	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991 (1.000)	192003	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880 (0.971)	372149	47.6131	55.6
\$ 64 Toluene-d8	98	17.144	17.134 (0.918)	899824	57.7011	67.4
\$ 86 Bromofluorobenzene	95	19.814	19.814 (0.944)	309420	61.8813	72.3

ION RATIO REPORT

VOA REPORT

Data file: 7y435.d
Report Date: 02/12/2010 09:41
Lab. ID: 246330005
Injection Date: 12-FEB-2010 04:37
Operator: AX01
Sample Info: |246330005|952150|1|VOAF|1|
Miscellaneous Info: LANL 5g N/A
Comment:
Method used: /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m
Dilution Factor= 1.0
Integrator: HP RTE
Sample Matrix: SOIL

SampleType: SAMPLE
Instrument: VOA7.i
Compound Sublist: 10-1567

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	10215	17.13	16.94	80-120	100	(T)
43	6866	17.13	16.94	217-277	67	(QT)
100	599993	17.14	16.94	0- 58	5873	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/021110v7/7y435.d
Report Date: 22-Feb-2010 07:36

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/021110v7/7y435.d
Lab Smp Id: 246330005 Client Smp ID: RE15-10-8307
Inj Date : 12-FEB-2010 04:37
Operator : AX01 Inst ID: VOA7.i
Smp Info : |246330005|952150|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m
Meth Date : 22-Feb-2010 06:38 ale01592 Quant Type: ISTD
Cal Date : 03-FEB-2010 00:25 Cal File: 7x216.d
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.sub
Target Version: 3.50
Processing Host: prdsvr07

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/V007.i/021107/79435.d
Date : 12-FEB-2010 04:37
Client ID: RE15-10-8307
Sample Info: 1246330005196215011/V00711

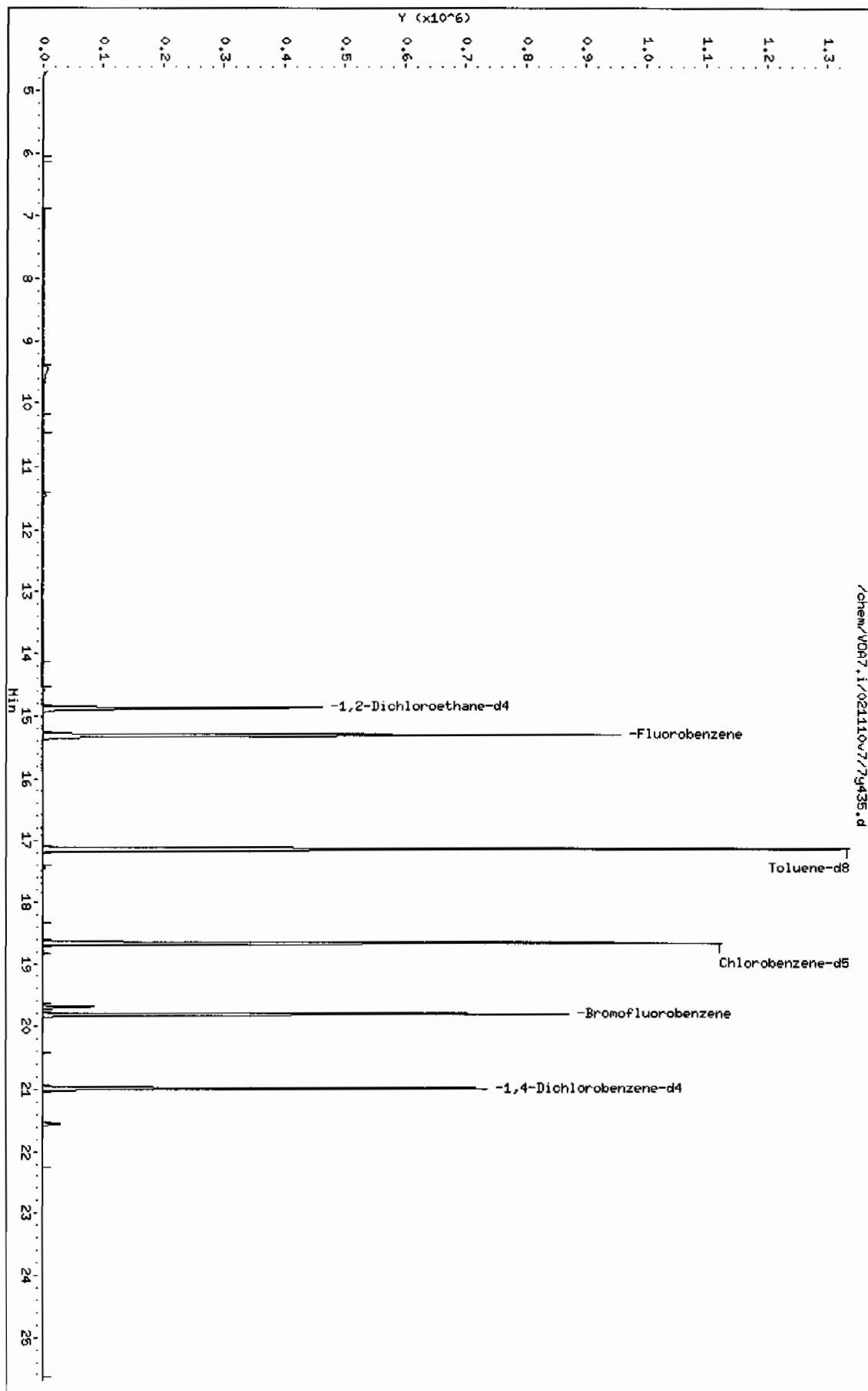
Column phase: DB-624

Instrument: V007.i

Operator: AX01

Column diameter: 0.25

/chem/V007.i/021107/79435.d



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330007	Date Received: 02/05/2010 09:00	%Moisture: 27.6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8308	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952150	Inst: VOA7.1	Dilution: 1
Run Date: 02/12/2010 05:46	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/11/2010 14:26	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7y437.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.38	ug/kg	0.470	1.38
74-87-3	Chloromethane	U	1.38	ug/kg	0.414	1.38
75-01-4	Vinyl chloride	U	1.38	ug/kg	0.414	1.38
74-83-9	Bromomethane	U	1.38	ug/kg	0.414	1.38
75-00-3	Chloroethane	U	1.38	ug/kg	0.414	1.38
75-69-4	Trichlorofluoromethane	U	1.38	ug/kg	0.414	1.38
67-64-1	Acetone	U	6.91	ug/kg	2.29	6.91
75-35-4	1,1-Dichloroethylene	U	1.38	ug/kg	0.414	1.38
74-88-4	Iodomethane	U	6.91	ug/kg	2.21	6.91
75-09-2	Methylene chloride	U	6.91	ug/kg	2.76	6.91
75-15-0	Carbon disulfide	U	6.91	ug/kg	1.73	6.91
156-60-5	trans-1,2-Dichloroethylene	U	1.38	ug/kg	0.414	1.38
75-34-3	1,1-Dichloroethane	U	1.38	ug/kg	0.414	1.38
78-93-3	2-Butanone	U	6.91	ug/kg	2.07	6.91
156-59-2	cis-1,2-Dichloroethylene	U	1.38	ug/kg	0.414	1.38
594-20-7	2,2-Dichloropropane	U	1.38	ug/kg	0.414	1.38
67-66-3	Chloroform	U	1.38	ug/kg	0.414	1.38
74-97-5	Bromochloromethane	U	1.38	ug/kg	0.456	1.38
71-55-6	1,1,1-Trichloroethane	U	1.38	ug/kg	0.414	1.38
563-58-6	1,1-Dichloropropene	U	1.38	ug/kg	0.414	1.38
56-23-5	Carbon tetrachloride	U	1.38	ug/kg	0.414	1.38
107-06-2	1,2-Dichloroethane	U	1.38	ug/kg	0.414	1.38
71-43-2	Benzene	U	1.38	ug/kg	0.414	1.38
79-01-6	Trichloroethylene	U	1.38	ug/kg	0.456	1.38
78-87-5	1,2-Dichloropropane	U	1.38	ug/kg	0.414	1.38
75-27-4	Bromodichloromethane	U	1.38	ug/kg	0.414	1.38
74-95-3	Dibromomethane	U	1.38	ug/kg	0.414	1.38
108-10-1	4-Methyl-2-pentanone	U	6.91	ug/kg	1.73	6.91
10061-01-5	cis-1,3-Dichloropropylene	U	1.38	ug/kg	0.414	1.38
108-88-3	Toluene	U	1.38	ug/kg	0.414	1.38
10061-02-6	trans-1,3-Dichloropropylene	U	1.38	ug/kg	0.414	1.38
79-00-5	1,1,2-Trichloroethane	U	1.38	ug/kg	0.414	1.38
591-78-6	2-Hexanone	U	6.91	ug/kg	2.07	6.91
142-28-9	1,3-Dichloropropane	U	1.38	ug/kg	0.414	1.38
127-18-4	Tetrachloroethylene	U	1.38	ug/kg	0.414	1.38
124-48-1	Dibromochloromethane	U	1.38	ug/kg	0.414	1.38
106-93-4	1,2-Dibromoethane	U	1.38	ug/kg	0.414	1.38
108-90-7	Chlorobenzene	U	1.38	ug/kg	0.414	1.38

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 246330007

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 27.6
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.38	ug/kg	0.414	1.38
179601-23-1	m,p-Xylenes	U	2.76	ug/kg	0.414	2.76
95-47-6	o-Xylene	U	1.38	ug/kg	0.414	1.38
100-42-5	Styrene	U	1.38	ug/kg	0.414	1.38
75-25-2	Bromoform	U	1.38	ug/kg	0.414	1.38
79-34-5	1,1,2,2-Tetrachloroethane	U	1.38	ug/kg	0.414	1.38
96-18-4	1,2,3-Trichloropropane	U	1.38	ug/kg	0.414	1.38
108-86-1	Bromobenzene	U	1.38	ug/kg	0.414	1.38
103-65-1	n-Propylbenzene	U	1.38	ug/kg	0.414	1.38
95-49-8	2-Chlorotoluene	U	1.38	ug/kg	0.414	1.38
98-82-8	Isopropylbenzene	U	1.38	ug/kg	0.414	1.38
108-67-8	1,3,5-Trimethylbenzene	U	1.38	ug/kg	0.414	1.38
106-43-4	4-Chlorotoluene	U	1.38	ug/kg	0.414	1.38
98-06-6	tert-Butylbenzene	U	1.38	ug/kg	0.414	1.38
95-63-6	1,2,4-Trimethylbenzene	U	1.38	ug/kg	0.414	1.38
135-98-8	sec-Butylbenzene	U	1.38	ug/kg	0.414	1.38
99-87-6	4-Isopropyltoluene	J	0.942	ug/kg	0.414	1.38
541-73-1	1,3-Dichlorobenzene	U	1.38	ug/kg	0.414	1.38
106-46-7	1,4-Dichlorobenzene	U	1.38	ug/kg	0.414	1.38
104-51-8	n-Butylbenzene	U	1.38	ug/kg	0.414	1.38
96-12-8	1,2-Dibromo-3-chloropropane	U	1.38	ug/kg	0.414	1.38
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.91	ug/kg	2.21	6.91
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.38	ug/kg	0.414	1.38
95-50-1	1,2-Dichlorobenzene	U	1.38	ug/kg	0.414	1.38

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Hydrocarbon	19.65	12.5	ug/kg		J
	Unknown Hydrocarbon	20.62	27.5	ug/kg		J

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021110v7/7y437.d

Lab Smp Id: 246330007

Client Smp ID: RE15-10-8308

Inj Date : 12-FEB-2010 05:46

Operator : AX01

Inst ID: VOA7.i

Smp Info : |246330007|952150|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

Meth Date : 22-Feb-2010 06:38 ale01592 Quant Type: ISTD

Cal Date : 03-FEB-2010 00:25

Cal File: 7x216.d

Als bottle: 37

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1567.sub

Target Version: 3.50

Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	27.60030	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	818763	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	519431	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991	(1.000)	213543	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.972)	343989	45.8695	63.4
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	863212	56.3654	77.8
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	319181	57.3946	79.3
99 4-Isopropyltoluene	119	20.860	20.860	(0.994)	7433	0.68197	0.94 (aQ)

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

QC Flag Legend

Q - Qualifier signal failed the ratio test.

ION RATIO REPORT

VOA REPORT

Data file: 7y437.d

Report Date: 02/12/2010 09:41

Lab. ID: 246330007

SampleType: SAMPLE

Injection Date: 12-FEB-2010 05:46

Operator: AX01

Instrument: VOA7.i

Sample Info: |246330007|952150|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1567

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	9903	17.14	16.94	80-120	100	(T)
43	6708	17.13	16.94	217-277	68	(QT)
100	580306	17.13	16.94	0- 58	5860	(QT)

92	1,3,5-Trimethylbenzene			CAS#: 108-67-8		
105	12760	20.62	20.17	80-120	100	(T)
120	761	20.62	20.17	16- 76	6	(QT)

96	1,2,4-Trimethylbenzene			CAS#: 95-63-6		
105	13772	20.62	20.57	80-120	100	()
120	943	20.62	20.57	18- 78	7	(Q)

95	tert-Butylbenzene			CAS#: 98-06-6		
119	6063	20.62	20.52	80-120	100	(T)
91	58647	20.62	20.52	54-114	967	(QT)
134	980	20.63	20.53	0- 52	16	(T)

98	sec-Butylbenzene			CAS#: 135-98-8		
105	13772	20.62	20.75	80-120	100	(T)
134	980	20.63	20.75	0- 50	7	(T)

99	4-Isopropyltoluene			CAS#: 99-87-6		
119	7433	20.86	20.86	80-120	100	()
134	1756	20.86	20.86	0- 58	24	()
91	6710	20.84	20.86	0- 60	90	(Q)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
104	n-Butylbenzene			CAS#: 104-51-8		
91	6710	20.84	21.30	80-120	100	(T)
92	4357	20.84	21.30	27- 87	65	(T)
134	1756	20.86	21.30	0- 54	26	(T)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/021110v7/7y437.d
 Report Date: 22-Feb-2010 07:39

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
 Data file : /chem/VOA7.i/021110v7/7y437.d
 Lab Smp Id: 246330007 Client Smp ID: RE15-10-8308
 Inj Date : 12-FEB-2010 05:46
 Operator : AX01 Inst ID: VOA7.i
 Smp Info : |246330007|952150|1|VOAF|1|
 Misc Info : LANL 5g N/A
 Comment :
 Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m
 Meth Date : 22-Feb-2010 06:38 ale01592 Quant Type: ISTD
 Cal Date : 03-FEB-2010 00:25 Cal File: 7x216.d
 Als bottle: 37
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1567.sub
 Target Version: 3.50
 Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M)) * (Vt/Ws) * (Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	27.60030	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 75 Chlorobenzene-d5	18.667	1989521	50.000
* 101 1,4-Dichlorobenzene-d4	20.991	1582178	50.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ug/l)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Hydrocarbon							
19.651	358804	9.01733622	12.4	0		0	75

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL(ug/l)	FINAL(ug/Kg)		LIBRARY	LIB ENTRY	
====	====	=====	=====	====	=====	=====	=====
Unknown Hydrocarbon				CAS #:			
20.616	629777	19.9022092	27.5	0	0	101	

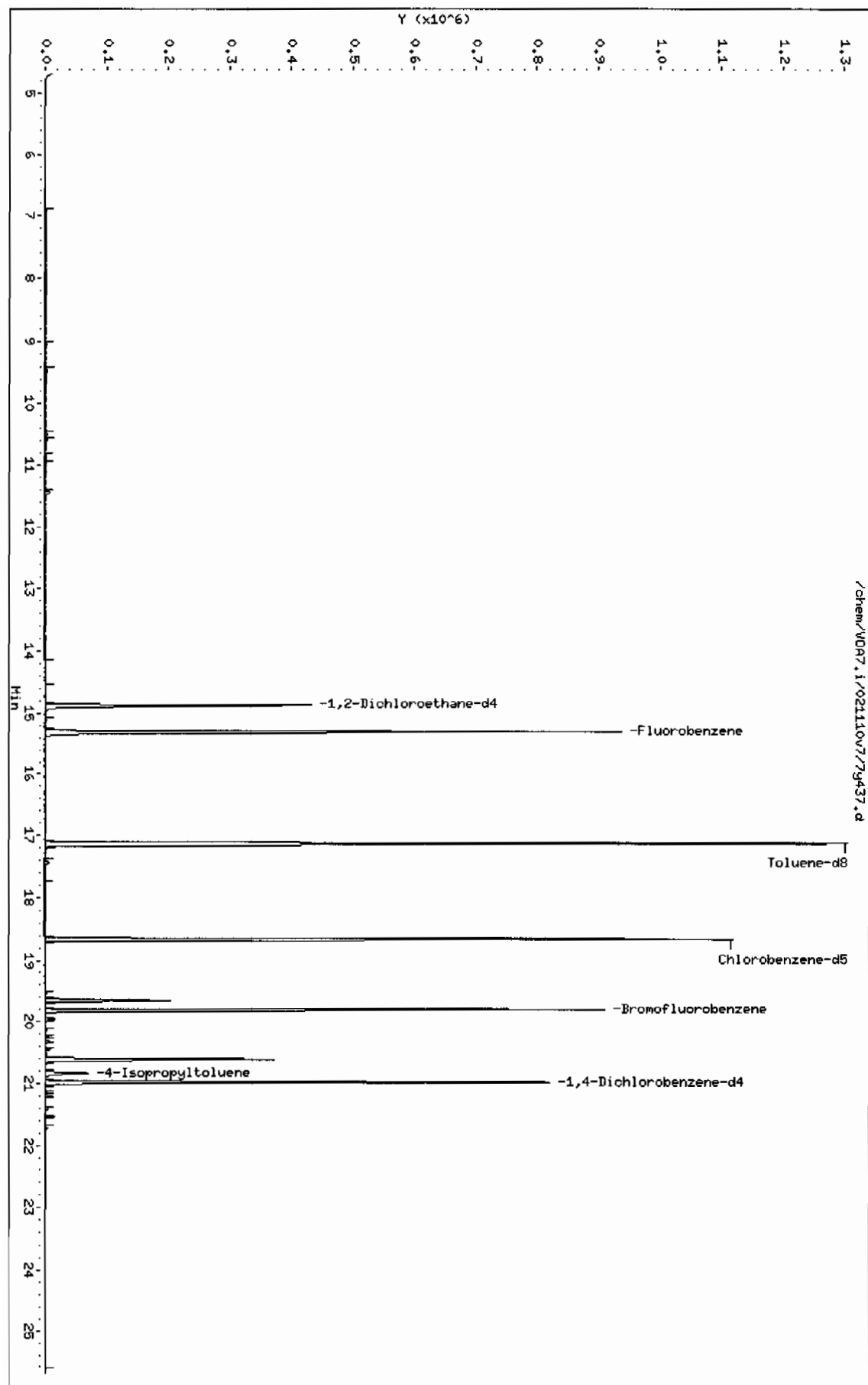
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Date: 12-FEB-2010 05:46
Client ID: RE15-10-8308
Sample Info: 1246330007196215011\WD07.1\1

Column Phase: DB-624

Instrument: WD07.1

Operator: RX01

Column diameter: 0.25



Data File: /chem/VDA7.1/021110v7/7y437.d

Page 2

Date : 12-FEB-2010 05:46

Client ID: RE15-10-8308

Instrument: VDA7.i

Sample Info: 1246330007195215011VDA711

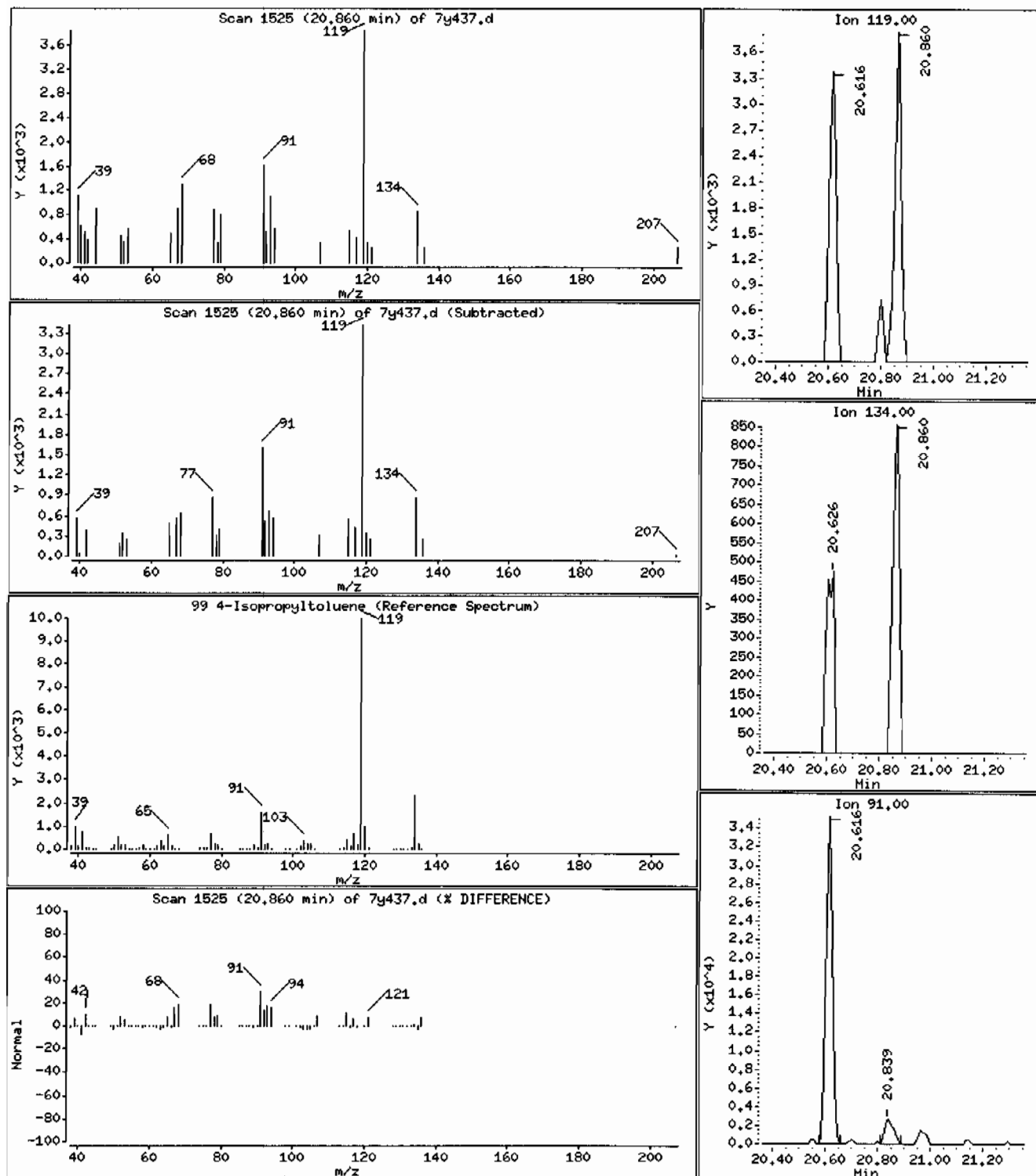
Operator: AX01

Column phase: DB-624

Column diameter: 0.25

99 4-Isopropyltoluene

Concentration: 0.94 ug/Kg



Date: 12-FEB-2010 05:46

Client ID: RE15-10-8308

Instrument: V0A7.i

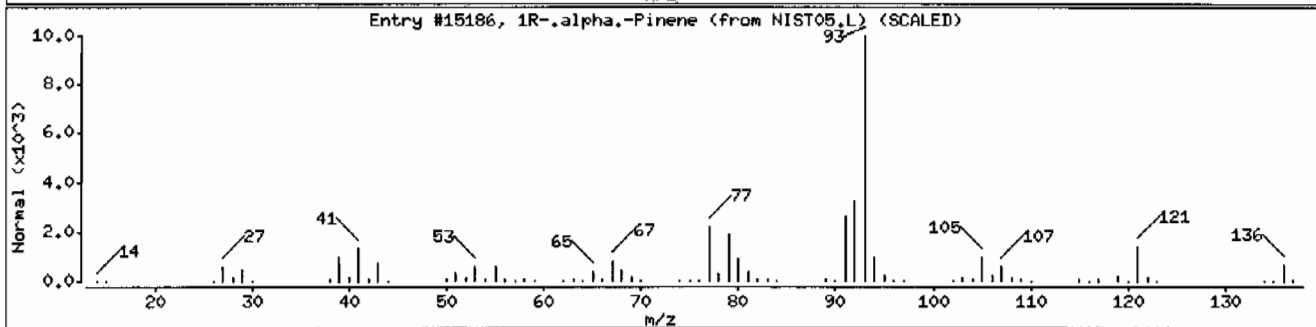
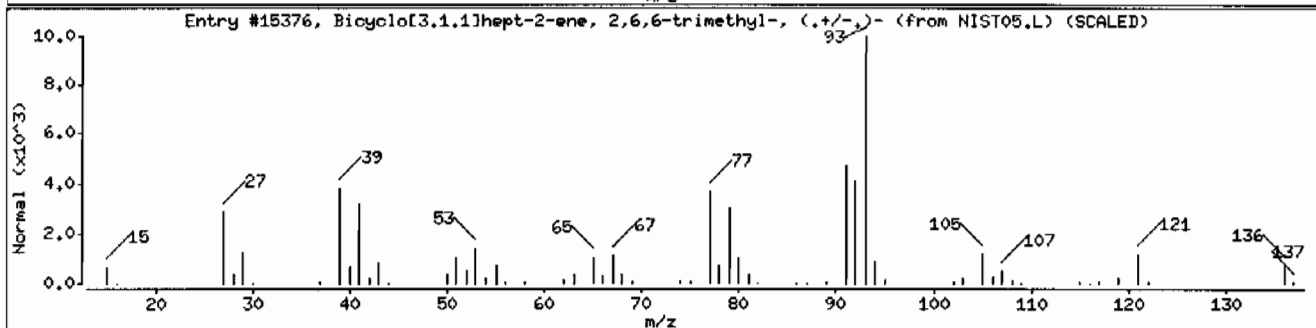
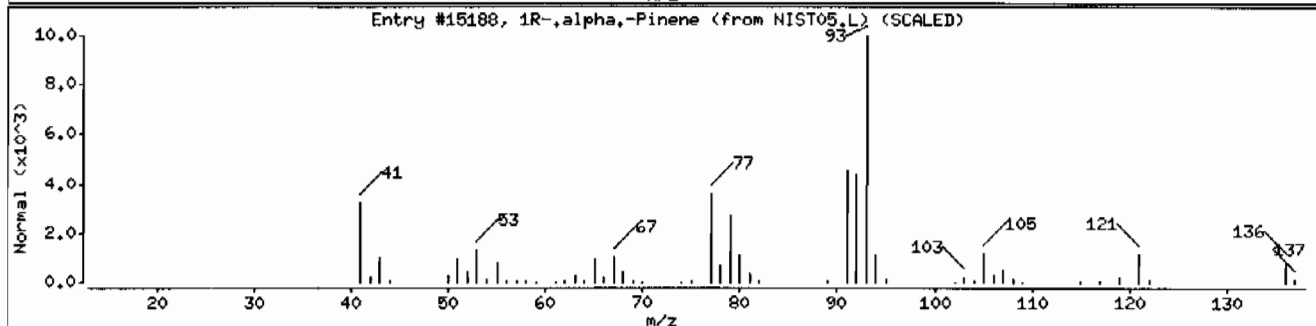
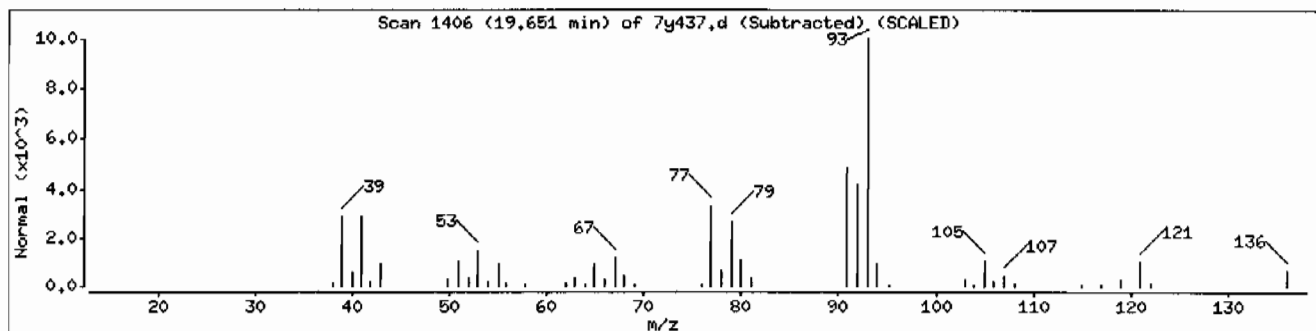
Sample Info: I246330007195215011V0AF11

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Hydrocarbon						
1R-,alpha,-Pinene	7785-70-8	NIST05.L	15188	97	C10H16	136
Bicyclo[3,1,1]hept-2-ene, 2,6,6-trimethyl-	2437-95-8	NIST05.L	15376	96	C10H16	136
1R-,alpha,-Pinene	7785-70-8	NIST05.L	15186	95	C10H16	136



Date: 12-FEB-2010 05:46

Client ID: RE15-10-8308

Instrument: V0A7.i

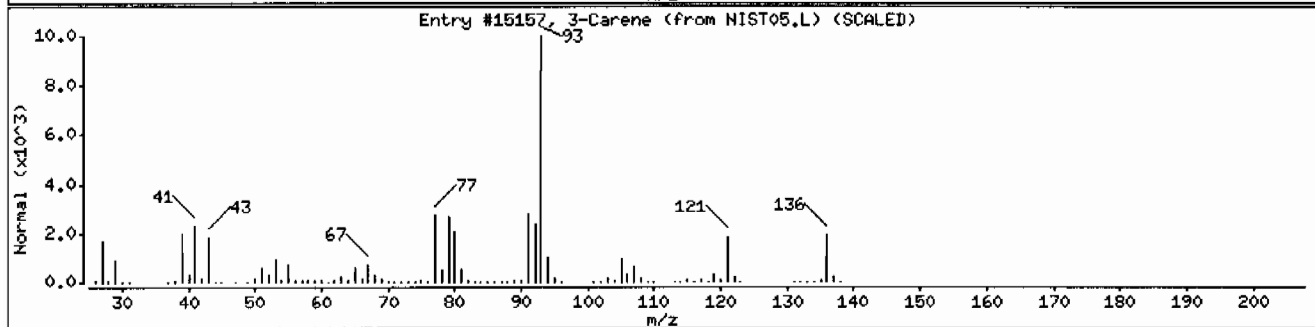
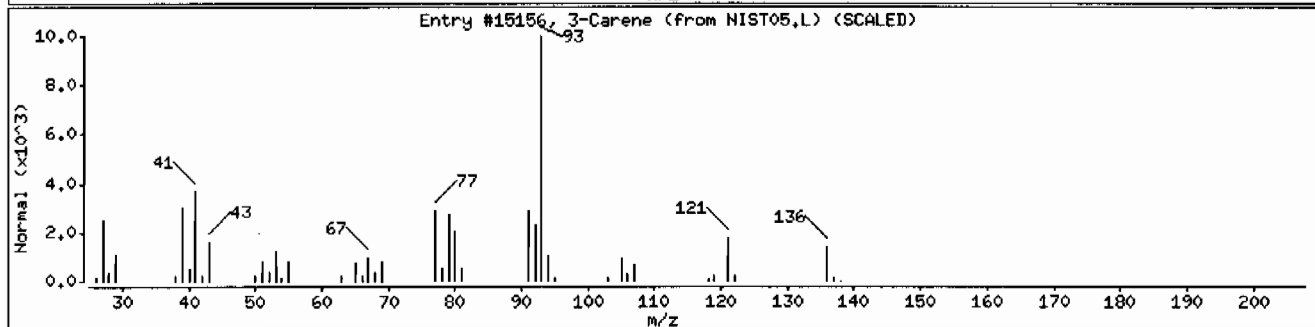
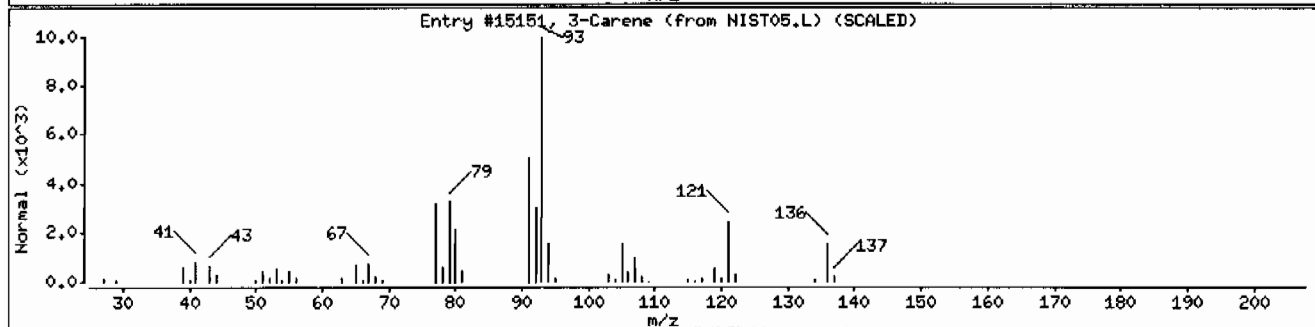
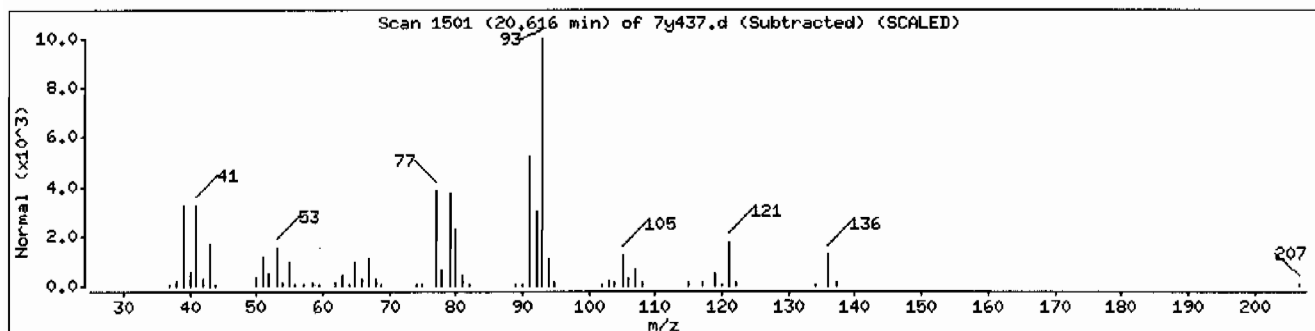
Sample Info: I2463300071952150111V0A7I11

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Hydrocarbon						
3-Carene	13466-78-9	NIST05.L	15151	96	C10H16	136
3-Carene	13466-78-9	NIST05.L	15156	95	C10H16	136
3-Carene	13466-78-9	NIST05.L	15157	94	C10H16	136



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330006	Date Received: 02/05/2010 09:00	%Moisture: 10.6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8309	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952150	Inst: VOA7.1	Dilution: 1
Run Date: 02/12/2010 05:11	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/11/2010 14:24	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7y436.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.12	ug/kg	0.380	1.12
74-87-3	Chloromethane	U	1.12	ug/kg	0.336	1.12
75-01-4	Vinyl chloride	U	1.12	ug/kg	0.336	1.12
74-83-9	Bromomethane	U	1.12	ug/kg	0.336	1.12
75-00-3	Chloroethane	U	1.12	ug/kg	0.336	1.12
75-69-4	Trichlorofluoromethane	U	1.12	ug/kg	0.336	1.12
67-64-1	Acetone	U	5.60	ug/kg	1.86	5.60
75-35-4	1,1-Dichloroethylene	U	1.12	ug/kg	0.336	1.12
74-88-4	Iodomethane	U	5.60	ug/kg	1.79	5.60
75-09-2	Methylene chloride	U	5.60	ug/kg	2.24	5.60
75-15-0	Carbon disulfide	U	5.60	ug/kg	1.40	5.60
156-60-5	trans-1,2-Dichloroethylene	U	1.12	ug/kg	0.336	1.12
75-34-3	1,1-Dichloroethane	U	1.12	ug/kg	0.336	1.12
78-93-3	2-Butanone	U	5.60	ug/kg	1.68	5.60
156-59-2	cis-1,2-Dichloroethylene	U	1.12	ug/kg	0.336	1.12
594-20-7	2,2-Dichloropropane	U	1.12	ug/kg	0.336	1.12
67-66-3	Chloroform	U	1.12	ug/kg	0.336	1.12
74-97-5	Bromochloromethane	U	1.12	ug/kg	0.369	1.12
71-55-6	1,1,1-Trichloroethane	U	1.12	ug/kg	0.336	1.12
563-58-6	1,1-Dichloropropene	U	1.12	ug/kg	0.336	1.12
56-23-5	Carbon tetrachloride	U	1.12	ug/kg	0.336	1.12
107-06-2	1,2-Dichloroethane	U	1.12	ug/kg	0.336	1.12
71-43-2	Benzene	U	1.12	ug/kg	0.336	1.12
79-01-6	Trichloroethylene	U	1.12	ug/kg	0.369	1.12
78-87-5	1,2-Dichloropropane	U	1.12	ug/kg	0.336	1.12
75-27-4	Bromodichloromethane	U	1.12	ug/kg	0.336	1.12
74-95-3	Dibromomethane	U	1.12	ug/kg	0.336	1.12
108-10-1	4-Methyl-2-pentanone	U	5.60	ug/kg	1.40	5.60
10061-01-5	cis-1,3-Dichloropropylene	U	1.12	ug/kg	0.336	1.12
108-88-3	Toluene	U	1.12	ug/kg	0.336	1.12
10061-02-6	trans-1,3-Dichloropropylene	U	1.12	ug/kg	0.336	1.12
79-00-5	1,1,2-Trichloroethane	U	1.12	ug/kg	0.336	1.12
591-78-6	2-Hexanone	U	5.60	ug/kg	1.68	5.60
142-28-9	1,3-Dichloropropane	U	1.12	ug/kg	0.336	1.12
127-18-4	Tetrachloroethylene	U	1.12	ug/kg	0.336	1.12
124-48-1	Dibromochloromethane	U	1.12	ug/kg	0.336	1.12
106-93-4	1,2-Dibromoethane	U	1.12	ug/kg	0.336	1.12
108-90-7	Chlorobenzene	U	1.12	ug/kg	0.336	1.12

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 246330006

Date Collected: 02/01/2010 12:00
 Date Received: 02/05/2010 09:00
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AX01
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 10.6
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.12	ug/kg	0.336	1.12
179601-23-1	m,p-Xylenes	U	2.24	ug/kg	0.336	2.24
95-47-6	o-Xylene	U	1.12	ug/kg	0.336	1.12
100-42-5	Styrene	U	1.12	ug/kg	0.336	1.12
75-25-2	Bromoform	U	1.12	ug/kg	0.336	1.12
79-34-5	1,1,2,2-Tetrachloroethane	U	1.12	ug/kg	0.336	1.12
96-18-4	1,2,3-Trichloropropane	U	1.12	ug/kg	0.336	1.12
108-86-1	Bromobenzene	U	1.12	ug/kg	0.336	1.12
103-65-1	n-Propylbenzene	U	1.12	ug/kg	0.336	1.12
95-49-8	2-Chlorotoluene	U	1.12	ug/kg	0.336	1.12
98-82-8	Isopropylbenzene	U	1.12	ug/kg	0.336	1.12
108-67-8	1,3,5-Trimethylbenzene	U	1.12	ug/kg	0.336	1.12
106-43-4	4-Chlorotoluene	U	1.12	ug/kg	0.336	1.12
98-06-6	tert-Butylbenzene	U	1.12	ug/kg	0.336	1.12
95-63-6	1,2,4-Trimethylbenzene	U	1.12	ug/kg	0.336	1.12
135-98-8	sec-Butylbenzene	U	1.12	ug/kg	0.336	1.12
99-87-6	4-Isopropyltoluene	U	1.12	ug/kg	0.336	1.12
541-73-1	1,3-Dichlorobenzene	U	1.12	ug/kg	0.336	1.12
106-46-7	1,4-Dichlorobenzene	U	1.12	ug/kg	0.336	1.12
104-51-8	n-Butylbenzene	U	1.12	ug/kg	0.336	1.12
96-12-8	1,2-Dibromo-3-chloropropane	U	1.12	ug/kg	0.336	1.12
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.60	ug/kg	1.79	5.60
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.12	ug/kg	0.336	1.12
95-50-1	1,2-Dichlorobenzene	U	1.12	ug/kg	0.336	1.12

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	21.55	8.04	ug/kg		J

Data File: /chem/VOA7.i/021110v7/7y436.d
Report Date: 22-Feb-2010 07:37

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GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021110v7/7y436.d

Lab Smp Id: 246330006

Client Smp ID: RE15-10-8309

Inj Date : 12-FEB-2010 05:11

Operator : AX01

Inst ID: VOA7.i

Smp Info : |246330006|952150|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

Meth Date : 22-Feb-2010 06:38 ale01592 Quant Type: ISTD

Cal Date : 03-FEB-2010 00:25

Cal File: 7x216.d

Als bottle: 36

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1567.sub

Target Version: 3.50

Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	10.64390	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	832291	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	562166	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.991	(1.000)	253359	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	365494	47.9449	53.6
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	910388	54.9269	61.5
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	363625	55.1108	61.7

ION RATIO REPORT

VOA REPORT

Data file: 7y436.d

Report Date: 02/12/2010 09:41

Lab. ID: 246330006

SampleType: SAMPLE

Injection Date: 12-FEB-2010 05:11

Operator: AX01

Instrument: VOA7.i

Sample Info: |246330006|952150|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1567

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	11621	17.13	16.94	80-120	100	(T)
43	6678	17.13	16.94	217-277	57	(QT)
100	612358	17.14	16.94	0- 58	5269	(QT)

82	Bromoform			CAS#: 75-25-2		
173	1047	19.82	19.54	80-120	100	(T)
175	15912	19.81	19.54	18- 78	1518	(QT)

89	1,2,3-Trichloropropane			CAS#: 96-18-4		
110	816	19.69	19.97	80-120	100	(T)
75	2900	19.68	19.97	306-366	355	(T)
77	2196	19.81	19.97	87-147	269	(QT)

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/021110v7/7y436.d
Lab Smp Id: 246330006 Client Smp ID: RE15-10-8309
Inj Date : 12-FEB-2010 05:11
Operator : AX01 Inst ID: VOA7.i
Smp Info : |246330006|952150|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m
Meth Date : 22-Feb-2010 06:38 ale01592 Quant Type: ISTD
Cal Date : 03-FEB-2010 00:25 Cal File: 7x216.d
Als bottle: 36
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.sub
Target Version: 3.50
Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	10.64390	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 101 1,4-Dichlorobenzene-d4	20.992	1857316	50.000

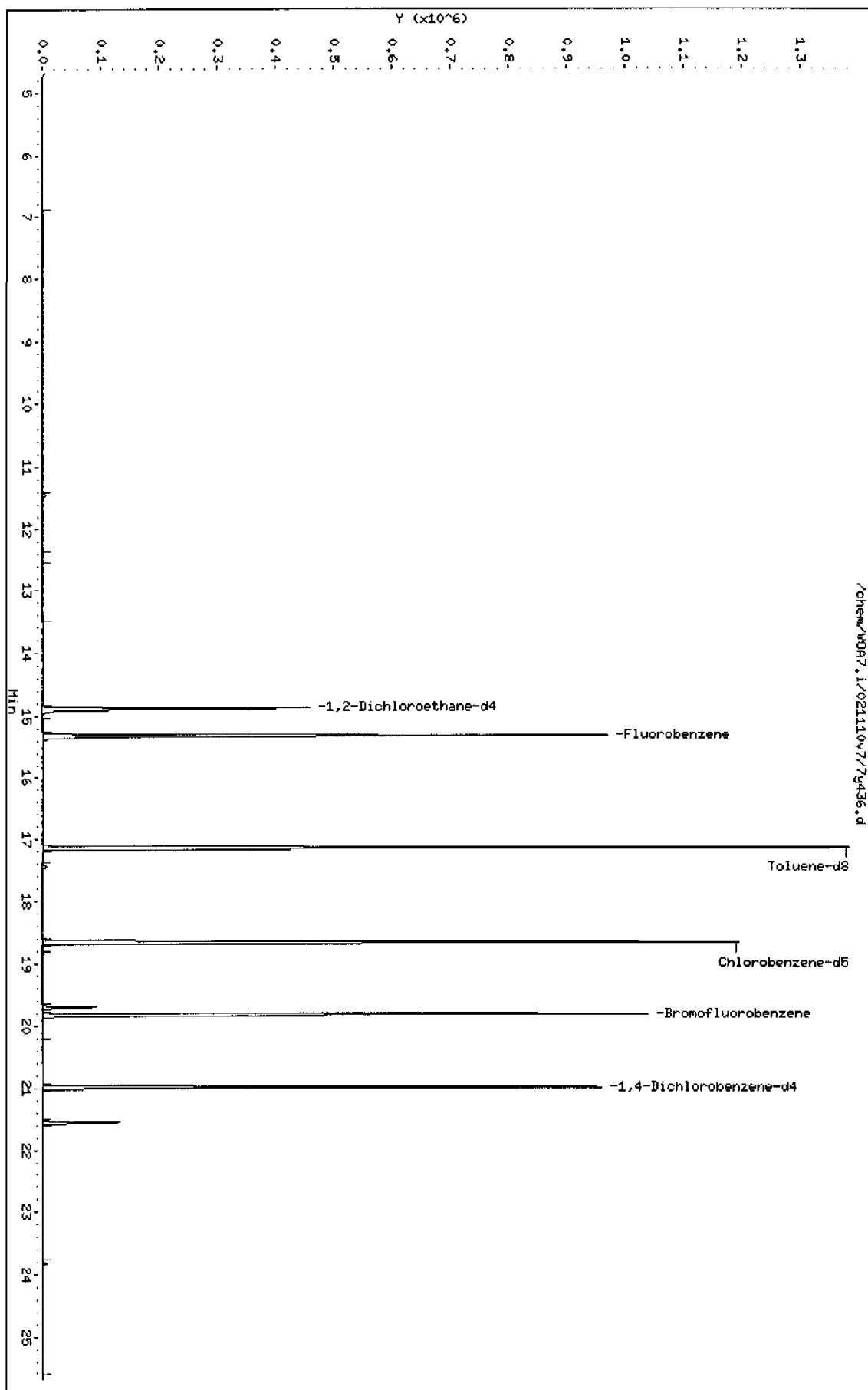
CONCENTRATIONS				QUANT			
RT	AREA	ON-COL(ug/l)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Siloxane							
21.550	267003	7.18787604	8.0	0		0	101

Data File: /chem/V007.i/021107/7g436.d
Date: 12-FEB-2010 05:14
Client ID: RE15-10-8309
Sample Info: 1246330006/96215011/V00AF.11

Column phase: DB-624

Instrument: V007.i
Operator: AX01
Column diameter: 0.25

Page 1



Date : 12-FEB-2010 05:11

Client ID: RE15-10-8309

Instrument: V0A7.i

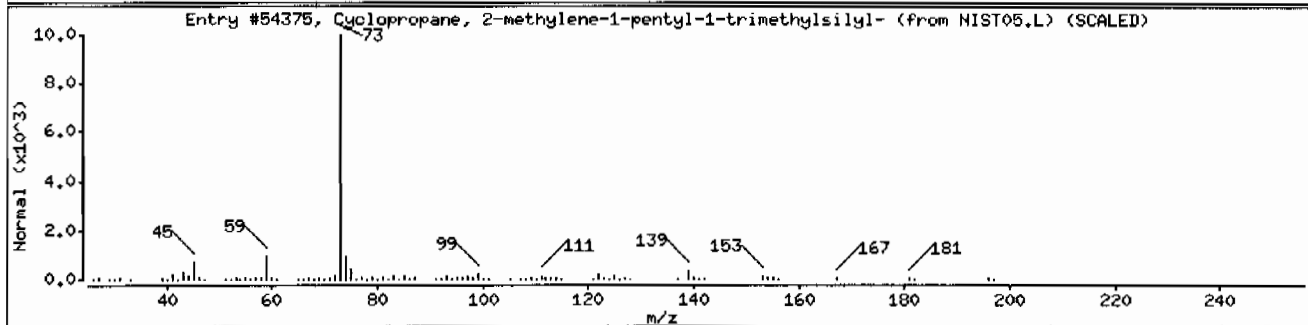
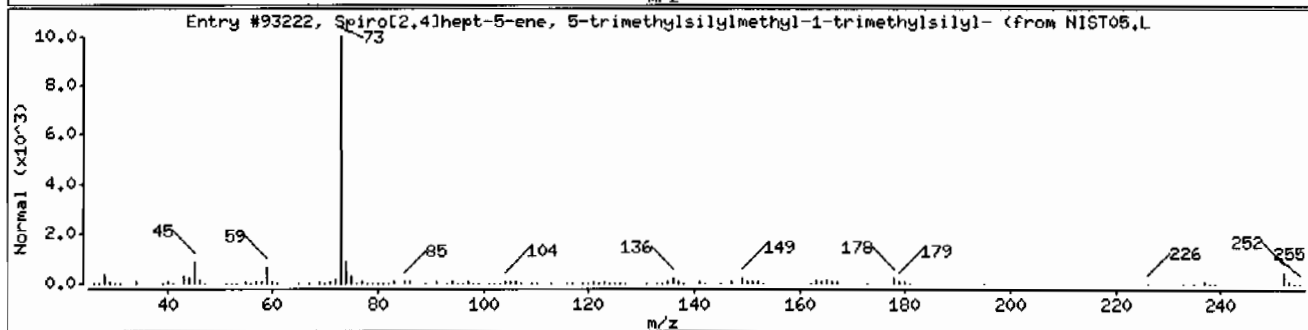
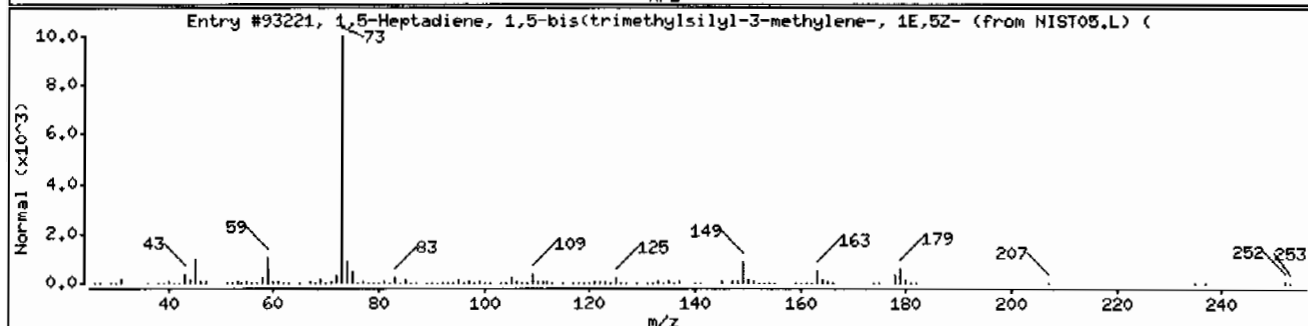
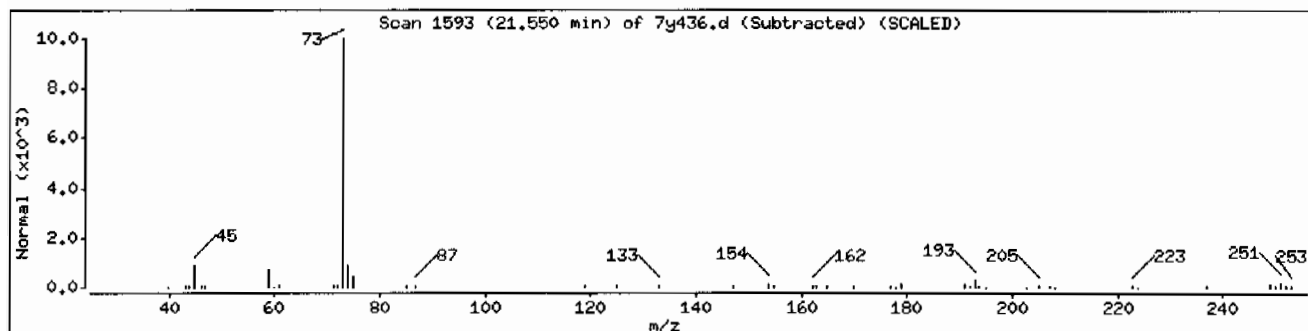
Sample Info: I246330006I95215011IV0AF111

Operator: AX01

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Siloxane						
1,5-Heptadiene, 1,5-bis(trimethylsilyl)-3	1000153-97-1	NIST05.L	93221	47	C ₁₄ H ₂₈ Si ₂	252
Spiro[2.4]hept-5-ene, 5-trimethylsilylme	1000153-96-9	NIST05.L	93222	38	C ₁₄ H ₂₈ Si ₂	252
Cyclopropane, 2-methylene-1-pentyl-1-tri	167300-47-2	NIST05.L	54375	37	C ₁₂ H ₂₄ Si	196



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330010	Date Received: 02/05/2010 09:00	%Moisture: 20.9
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8324	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952150	Inst: VOA7.1	Dilution: 1
Run Date: 02/12/2010 18:56	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/12/2010 15:16	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7y513.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.26	ug/kg	0.430	1.26
74-87-3	Chloromethane	U	1.26	ug/kg	0.379	1.26
75-01-4	Vinyl chloride	U	1.26	ug/kg	0.379	1.26
74-83-9	Bromomethane	U	1.26	ug/kg	0.379	1.26
75-00-3	Chloroethane	U	1.26	ug/kg	0.379	1.26
75-69-4	Trichlorofluoromethane	U	1.26	ug/kg	0.379	1.26
67-64-1	Acetone	U	6.32	ug/kg	2.10	6.32
75-35-4	1,1-Dichloroethylene	U	1.26	ug/kg	0.379	1.26
74-88-4	Iodomethane	U	6.32	ug/kg	2.02	6.32
75-09-2	Methylene chloride	U	6.32	ug/kg	2.53	6.32
75-15-0	Carbon disulfide	U	6.32	ug/kg	1.58	6.32
156-60-5	trans-1,2-Dichloroethylene	U	1.26	ug/kg	0.379	1.26
75-34-3	1,1-Dichloroethane	U	1.26	ug/kg	0.379	1.26
78-93-3	2-Butanone	U	6.32	ug/kg	1.90	6.32
156-59-2	cis-1,2-Dichloroethylene	U	1.26	ug/kg	0.379	1.26
594-20-7	2,2-Dichloropropane	U	1.26	ug/kg	0.379	1.26
67-66-3	Chloroform	U	1.26	ug/kg	0.379	1.26
74-97-5	Bromochloromethane	U	1.26	ug/kg	0.417	1.26
71-55-6	1,1,1-Trichloroethane	U	1.26	ug/kg	0.379	1.26
563-58-6	1,1-Dichloropropene	U	1.26	ug/kg	0.379	1.26
56-23-5	Carbon tetrachloride	U	1.26	ug/kg	0.379	1.26
107-06-2	1,2-Dichloroethane	U	1.26	ug/kg	0.379	1.26
71-43-2	Benzene	U	1.26	ug/kg	0.379	1.26
79-01-6	Trichloroethylene	U	1.26	ug/kg	0.417	1.26
78-87-5	1,2-Dichloropropane	U	1.26	ug/kg	0.379	1.26
75-27-4	Bromodichloromethane	U	1.26	ug/kg	0.379	1.26
74-95-3	Dibromomethane	U	1.26	ug/kg	0.379	1.26
108-10-1	4-Methyl-2-pentanone	U	6.32	ug/kg	1.58	6.32
10061-01-5	cis-1,3-Dichloropropylene	U	1.26	ug/kg	0.379	1.26
108-88-3	Toluene	U	1.26	ug/kg	0.379	1.26
10061-02-6	trans-1,3-Dichloropropylene	U	1.26	ug/kg	0.379	1.26
79-00-5	1,1,2-Trichloroethane	U	1.26	ug/kg	0.379	1.26
591-78-6	2-Hexanone	U	6.32	ug/kg	1.90	6.32
142-28-9	1,3-Dichloropropane	U	1.26	ug/kg	0.379	1.26
127-18-4	Tetrachloroethylene	U	1.26	ug/kg	0.379	1.26
124-48-1	Dibromochloromethane	U	1.26	ug/kg	0.379	1.26
106-93-4	1,2-Dibromoethane	U	1.26	ug/kg	0.379	1.26
108-90-7	Chlorobenzene	U	1.26	ug/kg	0.379	1.26

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330010	Date Received: 02/05/2010 09:00	%Moisture: 20.9
Client ID: RE15-10-8324	Client: LANL010	Project: LANL01004
Batch ID: 952150	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/12/2010 18:56	Inst: VOA7.1	Dilution: 1
Prep Date: 02/12/2010 15:16	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7y513.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.26	ug/kg	0.379	1.26
179601-23-1	m,p-Xylenes	U	2.53	ug/kg	0.379	2.53
95-47-6	o-Xylene	U	1.26	ug/kg	0.379	1.26
100-42-5	Styrene	U	1.26	ug/kg	0.379	1.26
75-25-2	Bromoform	U	1.26	ug/kg	0.379	1.26
79-34-5	1,1,2,2-Tetrachloroethane	U	1.26	ug/kg	0.379	1.26
96-18-4	1,2,3-Trichloropropane	U	1.26	ug/kg	0.379	1.26
108-86-1	Bromobenzene	U	1.26	ug/kg	0.379	1.26
103-65-1	n-Propylbenzene	U	1.26	ug/kg	0.379	1.26
95-49-8	2-Chlorotoluene	U	1.26	ug/kg	0.379	1.26
98-82-8	Isopropylbenzene	U	1.26	ug/kg	0.379	1.26
108-67-8	1,3,5-Trimethylbenzene	U	1.26	ug/kg	0.379	1.26
106-43-4	4-Chlorotoluene	U	1.26	ug/kg	0.379	1.26
98-06-6	tert-Butylbenzene	U	1.26	ug/kg	0.379	1.26
95-63-6	1,2,4-Trimethylbenzene	U	1.26	ug/kg	0.379	1.26
135-98-8	sec-Butylbenzene	U	1.26	ug/kg	0.379	1.26
99-87-6	4-Isopropyltoluene	U	1.26	ug/kg	0.379	1.26
541-73-1	1,3-Dichlorobenzene	U	1.26	ug/kg	0.379	1.26
106-46-7	1,4-Dichlorobenzene	U	1.26	ug/kg	0.379	1.26
104-51-8	n-Butylbenzene	U	1.26	ug/kg	0.379	1.26
96-12-8	1,2-Dibromo-3-chloropropane	U	1.26	ug/kg	0.379	1.26
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.32	ug/kg	2.02	6.32
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.26	ug/kg	0.379	1.26
95-50-1	1,2-Dichlorobenzene	U	1.26	ug/kg	0.379	1.26

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
No Tentatively Identified Compounds Found				ug/kg		

Data File: /chem/VOA7.i/021210v7/7y513.d
Report Date: 22-Feb-2010 08:09

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GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021210v7/7y513.d

Lab Smp Id: 246330010

Client Smp ID: RE15-10-8324

Inj Date : 12-FEB-2010 18:56

Operator : AX01

Inst ID: VOA7.i

Smp Info : |246330010|952150|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m

Meth Date : 22-Feb-2010 06:51 ale01592

Quant Type: ISTD

Cal Date : 03-FEB-2010 00:25

Cal File: 7x216.d

Als bottle: 13

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1567.sub

Target Version: 3.50

Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	20.89090	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 51 Fluorobenzene	96	15.316	15.317	(1.000)	782132	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	488650	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992	(1.000)	175691	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	359087	50.1253	63.4
\$ 64 Toluene-d8	98	17.144	17.134	(0.918)	855158	59.3570	75.0
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	277334	60.6140	76.6

ION RATIO REPORT

VOA REPORT

Data file: 7y513.d
Report Date: 02/14/2010 15:42
Lab. ID: 246330010
Injection Date: 12-FEB-2010 18:56
Operator: AX01
Sample Info: |246330010|952150|1|VOAF|1|
Miscellaneous Info: LANL 5g N/A
Comment:
Method used: /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
Dilution Factor= 1.0
Integrator: HP RTE
Sample Matrix: SOIL

SampleType: SAMPLE

Instrument: VOA7.i

Compound Sublist: 10-1567

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	10097	17.13	16.94	80-120	100	(T)
43	6264	17.14	16.93	223-283	62	(QT)
100	564392	17.14	16.94	0- 56	5590	(QT)

82	Bromoform			CAS#: 75-25-2		
173	874	19.81	19.54	80-120	100	(T)
175	12674	19.81	19.54	18- 78	1449	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/021210v7/7y513.d
Report Date: 22-Feb-2010 08:09

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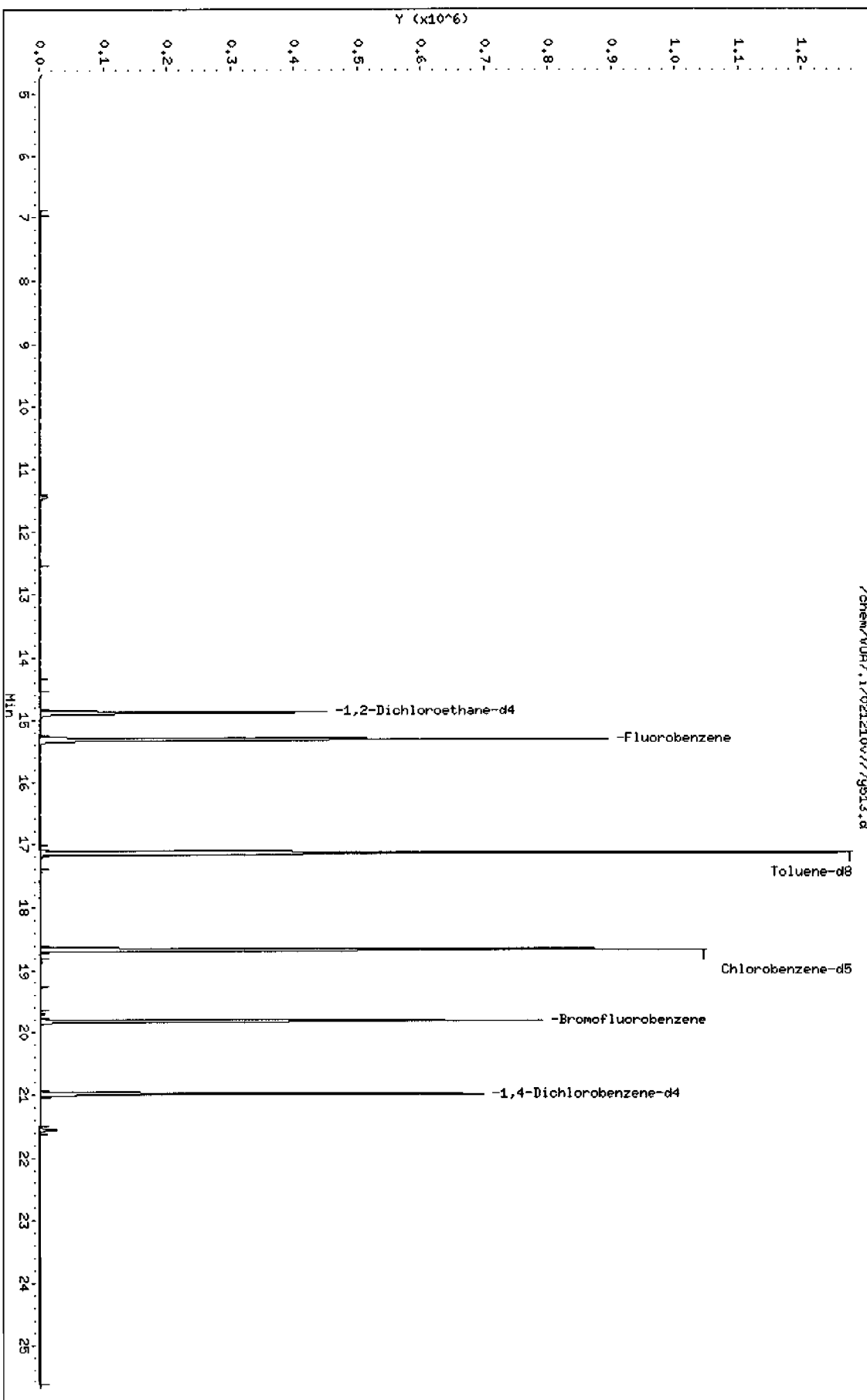
VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/021210v7/7y513.d
Lab Smp Id: 246330010 Client Smp ID: RE15-10-8324
Inj Date : 12-FEB-2010 18:56
Operator : AX01 Inst ID: VOA7.i
Smp Info : |246330010|952150|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
Meth Date : 22-Feb-2010 06:51 ale01592 Quant Type: ISTD
Cal Date : 03-FEB-2010 00:25 Cal File: 7x216.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.sub
Target Version: 3.50
Processing Host: prdsvr07

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/V0A7.i/021210v7/7g5L3.d
 Date: 12-FEB-2010 18:56
 Client ID: RE15-10-8324
 Sample Info: 1246330010195215011V0AF111

Column phase: DB-624

Instrument: V0A7.i
 Operator: AX01
 Column diameter: 0.25



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: S
Lab Sample ID: 246330001	Date Received: 02/05/2010 09:00	
Client ID: RE15-10-8332	Client: LANL010	Project: LANL01004
Batch ID: 952150	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 02/12/2010 02:17	Inst: VOA7.I	Dilution: 1
Prep Date: 02/11/2010 14:10	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7y431.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

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: 10-1567
Lab Sample ID: 246330001

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
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
Level: LOW

Client ID: RE15-10-8332
Batch ID: 952150
Run Date: 02/12/2010 02:17
Prep Date: 02/11/2010 14:10
Data File: 7y431.d

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
No Tentatively Identified Compounds Found				ug/kg		

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021110v7/7y431.d

Lab Smp Id: 246330001

Client Smp ID: RE15-10-8332

Inj Date : 12-FEB-2010 02:17

Operator : AX01

Inst ID: VOA7.i

Smp Info : |246330001|952150|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

Meth Date : 22-Feb-2010 06:38 ale01592

Quant Type: ISTD

Cal Date : 03-FEB-2010 00:25

Cal File: 7x216.d

Als bottle: 31

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1567.sub

Target Version: 3.50

Processing Host: prdsrv07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	948823	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	642834	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991	(1.000)	305934	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.972)	442952	50.9694	51.0
\$ 64 Toluene-d8	98	17.144	17.134	(0.918)	1045089	55.1414	55.1
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	438106	54.9883	55.0

ION RATIO REPORT

VOA REPORT

Data file: 7y431.d
Report Date: 02/12/2010 09:40
Lab. ID: 246330001
Injection Date: 12-FEB-2010 02:17
Operator: AX01
Sample Info: |246330001|952150|1|VOAF|1|
Miscellaneous Info: LANL 5g N/A
Comment:
Method used: /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m
Dilution Factor= 1.0
Integrator: HP RTE
Sample Matrix: SOIL

SampleType: SAMPLE
Instrument: VOA7.i
Compound Sublist: 10-1567

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	11885	17.13	16.94	80-120	100	(T)
43	7670	17.13	16.94	217-277	65	(QT)
100	701800	17.14	16.94	0- 58	5905	(QT)

82	Bromoform			CAS#: 75-25-2		
173	1395	19.82	19.54	80-120	100	(T)
175	19806	19.81	19.54	18- 78	1419	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/021110v7/7y431.d
Report Date: 22-Feb-2010 07:18

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GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/021110v7/7y431.d
Lab Smp Id: 246330001 Client Smp ID: RE15-10-8332
Inj Date : 12-FEB-2010 02:17
Operator : AX01 Inst ID: VOA7.i
Smp Info : |246330001|952150|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m
Meth Date : 22-Feb-2010 06:38 ale01592 Quant Type: ISTD
Cal Date : 03-FEB-2010 00:25 Cal File: 7x216.d
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.sub
Target Version: 3.50
Processing Host: prdsvr07

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/VOA7.i/021110v7/79431.d
Date : 12-FEB-2010 02:17
Client ID: RE16-10-8132
Sample Info: 12463300011952150111VOAF111

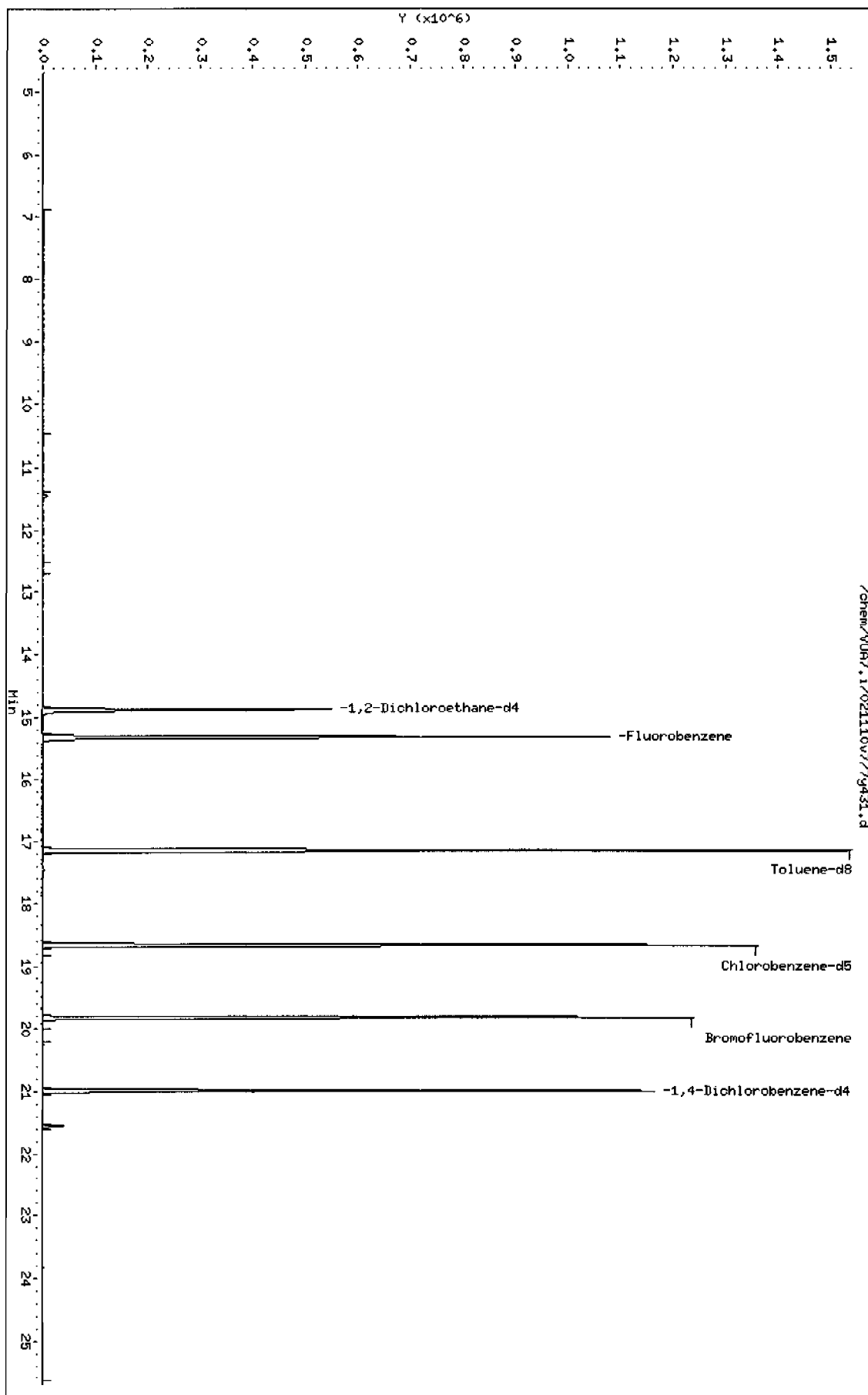
Column phase: DB-624

Instrument: VOA7.i

Operator: RX01

Column diameter: 0.25

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Standard Data

EPA 524.2/Low level SW846 8260B and Regular level 8260B and EPA 624
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

Report Date: 15-Feb-2010 12:25

Calibration History

Method : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
Start Cal Date: 02-FEB-2010 16:19
End Cal Date : 03-FEB-2010 01:00

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
02-FEB-2010 21:29	ICALsubS	/chem/VOA7.i/020210v7/7x211.d
02-FEB-2010 16:19	ICALsubL+	/chem/VOA7.i/020210v7/7x202.d
Cal Level: 2 , Cal Amount: 2.00000		
02-FEB-2010 22:03	ICALsubS	/chem/VOA7.i/020210v7/7x212.d
02-FEB-2010 16:53	ICALsubL+	/chem/VOA7.i/020210v7/7x203.d
Cal Level: 3 , Cal Amount: 5.00000		
02-FEB-2010 22:39	ICALsubS	/chem/VOA7.i/020210v7/7x213.d
02-FEB-2010 17:27	ICALsubL+	/chem/VOA7.i/020210v7/7x204.d
Cal Level: 4 , Cal Amount: 10.00000		
02-FEB-2010 23:14	ICALsubS	/chem/VOA7.i/020210v7/7x214.d
02-FEB-2010 18:00	ICALsubL+	/chem/VOA7.i/020210v7/7x205.d
Cal Level: 5 , Cal Amount: 20.00000		
02-FEB-2010 23:49	ICALsubS	/chem/VOA7.i/020210v7/7x215.d
02-FEB-2010 18:34	ICALsubL+	/chem/VOA7.i/020210v7/7x206.d
Cal Level: 6 , Cal Amount: 50.00000		
03-FEB-2010 00:25	ICALsubS	/chem/VOA7.i/020210v7/7x216.d
02-FEB-2010 19:08	ICALsubL+	/chem/VOA7.i/020210v7/7x207.d
Cal Level: 7 , Cal Amount: 100.00000		
03-FEB-2010 01:00	ICALsubS	/chem/VOA7.i/020210v7/7x217.d
02-FEB-2010 19:43	ICALsubL+	/chem/VOA7.i/020210v7/7x208.d
Cal Level: 8 , Cal Amount: 200.00000		
02-FEB-2010 20:54	BENZENE+	/chem/VOA7.i/020210v7/7x210.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

Ccal Level: 6 , Ccal Amount: 50.0	
+=====+	
12-FEB-2010 12:35 CALsubL+ /chem/VOA7.i/021210v7/7y502.d	
+-----+	
Ccal Level: 6 , Ccal Amount: 50.0	
+=====+	
12-FEB-2010 14:17 CALsubS+SS /chem/VOA7.i/021210v7/7y505.d	
+-----+	

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 02-FEB-2010 16:19
 End Cal Date : 03-FEB-2010 01:00
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
 Cal Date : 15-Feb-2010 12:11 ale01592

Calibration File Names:

Level 1: /chem/VOA7.i/020210v7/7x211.d
 Level 2: /chem/VOA7.i/020210v7/7x212.d
 Level 3: /chem/VOA7.i/020210v7/7x213.d
 Level 4: /chem/VOA7.i/020210v7/7x214.d
 Level 5: /chem/VOA7.i/020210v7/7x215.d
 Level 6: /chem/VOA7.i/020210v7/7x216.d
 Level 7: /chem/VOA7.i/020210v7/7x217.d
 Level 8: /chem/VOA7.i/020210v7/7x210.d

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coeficients m1	m2	%RSD or R^2
IM 1 1,3-Dichloropropylene	0.56147 0.48116	0.54655 ++++	0.54296 	0.53445 	0.55700 	0.49721 	AVRG 		0.53154 		5.76012
IM 2 Xylenes (total)	0.75175 0.49916	0.72313 ++++	0.68380 	0.66383 	0.64651 	0.58263 	 AVRG		 0.64726		 13.72929
IM 3 1,2-Dichloroethylene (total)	0.57307 0.42950	0.58473 ++++	0.55564 	0.54316 	0.51433 	0.46684 	AVRG 		0.52390 		10.95236
147 Chlorotrifluoroethylene	++++ 0.14944	0.14283 ++++	0.14037 	0.14042 	0.16661 	0.13686 	AVRG 		0.14609 		7.45432
148 2-Chloro-1,1,1-trifluoroethane	++++ 0.24124	0.28947 ++++	0.27472 	0.26394 	0.26068 	0.25992 	AVRG 		0.26499 		6.09252

GEL Laboratories LLC

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 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
 Cal Date : 15-Feb-2010 12:11 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients m1	m2	SRSD or R^2
4 Dichlorodifluoromethane	0.18913 0.20425	0.21908 ++++	0.24477	0.21125	0.21504	0.21087	AVRG	0.21348	7.89114		
5 Chloromethane	0.46553 0.37190	0.44113 ++++	0.43657	0.41938	0.42008	0.40177	AVRG	0.42234	7.10431		
6 Vinyl chloride	0.33357 0.28101	0.31699 ++++	0.31080	0.29837	0.30851	0.30180	AVRG	0.30729	5.31281		
7 Bromomethane	0.21320 0.21804	0.20343 ++++	0.22019	0.21053	0.22526	0.22570	AVRG	0.21662	3.74384		
8 Chloroethane	0.23646 0.22873	0.23017 ++++	0.22937	0.22777	0.23145	0.23900	AVRG	0.23185	1.82927		
9 Trichlorofluoromethane	0.40677 0.36543	0.39264 ++++	0.40781	0.38487	0.39773	0.39331	AVRG	0.39265	3.68652		
10 Ethyl Ether	0.33102 0.33349	0.32449 ++++	0.34554	0.33912	0.36079	0.33445	AVRG	0.33841	3.49725		
11 Acrolein	0.07501 0.07770	0.06939 ++++	0.07743	0.07965	0.07449	0.07779	AVRG	0.07592	4.44632		
12 Trichlorotrifluoroethane	0.12801 0.08265	0.09761 ++++	0.10261	0.09678	0.09761	0.09235	AVRG	0.09966	14.02224		

GEL Laboratories LLC

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 Method file : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
 Cal Date : 15-Feb-2010 12:11 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
13 Acetone	0.46422	0.33858	0.38485	0.35282	0.37828	0.32298	AVRG		0.36716		13.31234
14 1,1-Dichloroethylene	0.25851	0.25065	0.24870	0.24894	0.23361	0.23510	AVRG		0.24379		3.94528
15 Isopropyl Alcohol	0.02799	0.03147	0.03461	0.03371	0.03233	0.03212	AVRG		0.03202		6.53331
16 Iodomethane	0.47579	0.47118	0.45951	0.44719	0.41655	0.38941	AVRG		0.43238		9.77076
17 Acetonitrile	0.07551	0.05873	0.06412	0.05655	0.05632	0.06194	AVRG		0.06040		13.42146
18 Methyl acetate	0.36436	0.32719	0.36366	0.32477	0.32565	0.29397	AVRG		0.32677		9.15729
19 Carbon disulfide	0.91513	0.90624	0.89674	0.85995	0.77485	0.70198	AVRG		0.81272		13.67562
20 Allyl chloride	0.64467	0.57061	0.57638	0.55739	0.53682	0.48104	AVRG		0.53829		14.44209
21 tert-Butyl Alcohol	0.04827	0.04843	0.05178	0.04989	0.04618	0.04546	AVRG		0.04774		5.55757

GEL Laboratories LLC
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 Cal Date : 15-Feb-2010 12:11 ale01592

Compound	1	2	5	10	20	50	f	b	Coefficients	m2	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve				
	100	200									
	Level 7	Level 8									
22 Methylene chloride	++++	12378	22929	43341	81245	182169					
	351661	++++					LINR	-0.03239	0.19694		3.99977
23 Acrylonitrile	0.14626	0.14577	0.15126	0.15130	0.14170	0.14063					
	0.13947	++++					AVRG		0.14520		3.34199
24 tert-Butyl methyl ether	0.92575	1.05204	0.89378	0.92808	0.84132	0.78083					
	0.77404	++++					AVRG		0.88512		10.96997
25 trans-1,2-Dichloroethylene	0.52908	0.55151	0.51630	0.50920	0.48319	0.44448					
	0.41473	++++					AVRG		0.49264		9.84201
26 Vinyl acetate	0.88494	0.83269	0.87152	0.84594	0.84877	0.67676					
	++++	++++					AVRG		0.82677		9.17607
27 Isopropyl ether	++++	1.54953	1.51443	1.48977	1.45456	1.36096					
	1.25989	++++					AVRG		1.43819		7.54639
28 1,1-Dichloroethane	0.70505	0.67800	0.66250	0.65714	0.64945	0.60943					
	0.58430	++++					AVRG		0.64941		6.28031
29 2-Chloro-1,3-butadiene	0.52908	0.47494	0.48599	0.48157	0.48193	0.45964					
	0.41969	++++					AVRG		0.47612		6.87160
30 Ethyl tert-butyl ether	++++	0.91672	0.89261	0.91040	0.91983	0.90874					
	0.91775	++++					AVRG		0.91101		1.09751

GEL Laboratories LLC

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 Cal Date : 15-Feb-2010 12:11 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
31 2-Butanone	0.46510 0.33053	0.38944 ++++	0.43431	0.37757	0.41105	0.33500	AVRG		0.39186		12.64758
32 Ethyl acetate	0.48411 0.32593	0.45131 ++++	0.46892	0.44622	0.39948	0.37373	AVRG		0.42139		13.55277
33 cis-1,2-Dichloroethylene	0.61706 0.44428	0.61794 ++++	0.59498	0.57712	0.54548	0.48919	AVRG		0.55515		11.98971
34 2,2-Dichloropropane	0.26834 0.22677	0.26977 ++++	0.23945	0.24179	0.24060	0.24061	AVRG		0.24668		6.45515
35 Propionitrile	0.05990 0.05190	0.05962 ++++	0.05746	0.06002	0.05494	0.05441	AVRG		0.05689		5.62708
36 Methacrylonitrile	0.29717 0.20671	0.29619 ++++	0.28109	0.27658	0.25212	0.23528	AVRG		0.26359		12.80271
37 Bromochloromethane	0.43074 0.36568	0.41661 ++++	0.41946	0.42300	0.41825	0.37196	AVRG		0.40653		6.45144
38 Chloroform	0.59161 0.49214	0.58792 ++++	0.58245	0.57498	0.56446	0.51210	AVRG		0.55795		7.09315
39 Tetrahydrofuran	0.39778 0.29484	0.36586 ++++	0.36923	0.36359	0.32079	0.31299	AVRG		0.34644		10.71380

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 02-FEB-2010 16:19
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 Quant Method : ISTD
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 Integrator : HP RTE
 Method file : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
 Cal Date : 15-Feb-2010 12:11 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients m1	m2	RSD or R^2
	100 Level 7	200 Level 8									
41 1,1,1-Trichloroethane	0.45007 0.37350	0.43515 ++++	0.41861 0.43014	0.40738 0.39370	0.40738 0.39370	0.39370 0.39370	AVRG AVRG		0.41554		6.29949
42 Isobutyl alcohol	0.01977 0.01435	0.01980 ++++	0.02014 0.01880	0.01704 0.01646	0.01704 0.01646	0.01646 0.01646	AVRG AVRG		0.01805		12.01491
43 Cyclohexane	0.65817 0.49486	0.64826 ++++	0.60696 0.61595	0.55860 0.52795	0.55860 0.52795	0.52795 0.52795	AVRG AVRG		0.58725		10.50538
44 1,1-Dichloropropene	0.47624 0.32812	0.43903 ++++	0.40864 0.39533	0.37288 0.35204	0.37288 0.35204	0.35204 0.35204	AVRG AVRG		0.39604		12.84397
45 Carbon tetrachloride	0.37826 0.29455	0.36450 ++++	0.34616 0.33940	0.32513 0.31281	0.32513 0.31281	0.31281 0.31281	AVRG AVRG		0.33726		8.62417
47 1,2-Dichloroethane	0.57723 0.44047	0.57739 ++++	0.57653 0.55216	0.54993 0.47368	0.54993 0.47368	0.47368 0.47368	AVRG AVRG		0.53534		10.37763
48 Benzene	1.30064 0.94340	1.25286 1.28421	1.22058 0.68930	1.17797 0.66506	1.12463 0.66705	1.02832 0.68013	AVRG AVRG		1.16658		20.89032
49 Methyl tert-amyl ether	0.68843 0.65924	0.66285 ++++	0.66285 0.59510	0.66285 0.57493	0.66285 0.54897	0.66285 0.51607	AVRG AVRG		0.67547		1.77629
50 Cyclohexene	0.48430 0.48430	0.62888 ++++	0.59510 0.57493	0.54897 0.51607	0.54897 0.51607	0.51607 0.51607	AVRG AVRG		0.57250		10.75288

GEL Laboratories LLC
INITIAL CALIBRATION DATA

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 Method file : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
 Cal Date : 15-Feb-2010 12:11 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients m1	m2	RSD or R^2
52 n-Butyl alcohol	0.01587 0.01190	0.01279 0.01552	0.01591	0.01437	0.01277	0.01310	AVRG		0.01403		11.35250
53 Trichloroethylene	0.31363 0.25386	0.30760 ++++	0.30260	0.29242	0.29150	0.26664	AVRG		0.28975		7.56949
54 Methyl methacrylate	0.25595 0.18986	0.23686 ++++	0.25203	0.24655	0.22898	0.21609	AVRG		0.23233		10.01393
55 Methylcyclohexane	0.58064 0.38305	0.51401 ++++	0.48318	0.48884	0.45207	0.42283	AVRG		0.47494		13.49386
56 1,2-Dichloropropane	0.40248 0.30521	0.39377 ++++	0.39933	0.38601	0.37895	0.33113	AVRG		0.37098		10.15694
57 1,4-Dioxane	0.90330 0.00313	0.00312 ++++	0.00349	0.00315	0.00318	0.00313	AVRG		0.00322		4.26953
58 Dibromomethane	0.21489 0.19174	0.21059 ++++	0.22361	0.21612	0.21804	0.19511	AVRG		0.21001		5.72215
59 Bromodichloromethane	0.50914 0.41063	0.48269 ++++	0.46451	0.45814	0.46757	0.42274	AVRG		0.45935		7.34661
60 2-Nitropropane	0.14759 0.14435	0.14789 ++++	0.16476	0.16511	0.15302	0.15393	AVRG		0.15381		5.38336

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 02-FEB-2010 16:19
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 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
 Cal Date : 15-Feb-2010 12:11 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
61 2-Chloroethylvinyl ether	0.14695 0.11719	0.13542 ++++	0.13556 ++++	0.13158 ++++	0.14512 ++++	0.12789 ++++	AVRG	0.13424	0.13424		7.57925
62 cis-1,3-Dichloropropylene	0.61140 0.49694	0.59151 ++++	0.59022 ++++	0.56329 ++++	0.57665 ++++	0.51159 ++++	AVRG	0.56166	0.56166		7.49511
63 4-Methyl-2-pentanone	0.27011 0.19346	0.24450 ++++	0.26010 ++++	0.23666 ++++	0.25103 ++++	0.19948 ++++	AVRG	0.23648	0.23648		12.43106
65 Toluene	1.00246 0.75672	0.98474 ++++	0.90537 ++++	0.91907 ++++	0.86666 ++++	0.80362 ++++	AVRG	0.89123	0.89123		10.08412
66 Ethyl methacrylate	0.63654 ++++	0.60084 ++++	0.63348 ++++	0.61230 ++++	0.55324 ++++	0.49698 ++++	AVRG	0.58890	0.58890		9.19719
67 trans-1,3-Dichloropropylene	0.66016 0.59421	0.64936 ++++	0.65359 ++++	0.65238 ++++	0.67933 ++++	0.61741 ++++	AVRG	0.64378	0.64378		4.43283
68 1,1,2-Trichloroethane	0.38284 0.29184	0.34050 ++++	0.35989 ++++	0.34301 ++++	0.35169 ++++	0.30028 ++++	AVRG	0.33858	0.33858		9.53934
69 2-Hexanone	0.78800 ++++	0.69649 ++++	0.70015 ++++	0.62708 ++++	0.64271 ++++	++++	AVRG	0.69089	0.69089		9.13687
70 1,3-Dichloropropane	0.74139 ++++	0.75496 ++++	0.73695 ++++	0.69708 ++++	0.67968 ++++	0.55340 ++++	AVRG	0.69391	0.69391		10.74335

GEL Laboratories LLC

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 Integrator : HP RTE
 Method file : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
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Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
71 Tetrachloroethylene	0.30141 ++++	0.28609 ++++	0.26261	0.25181	0.23315	0.20792	AVRG		0.25717		13.30632
72 Dibromochloromethane	0.42424 0.39514	0.41740 ++++	0.41097	0.42213	0.44739	0.39110	AVRG		0.41548		4.57864
73 1,2-Dibromoethane	0.42629 0.36810	0.39504 ++++	0.41479	0.40857	0.42000	0.37137	AVRG		0.40059		5.80295
74 1-Chlorohexane	0.42122 0.32285	0.39494 ++++	0.36713	0.37300	0.38160	0.34334	AVRG		0.37201		8.71218
76 Chlorobenzene	1.03076 0.78596	0.98959 ++++	0.98239	0.93999	0.93820	0.83890	AVRG		0.92940		9.38628
77 1,1,1,2-Tetrachloroethane	0.35315 0.29496	0.36842 ++++	0.36571	0.34917	0.36179	0.31678	AVRG		0.34428		8.07714
78 Ethylbenzene	1.98661 ++++	1.88771 ++++	1.81194	1.74681	1.63369	1.41052	AVRG		1.74621		11.66563
79 m,p-Xylenes	0.72747 0.48277	0.72337 ++++	0.67251	0.64950	0.63405	0.54927	AVRG		0.63414		14.17733
80 o-Xylene	0.80031 0.53193	0.72265 ++++	0.70636	0.69249	0.67143	0.58934	AVRG		0.67350		13.15022

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 02-FEB-2010 16:19
 End Cal Date : 03-FEB-2010 01:00
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
 Cal Date : 15-Feb-2010 12:11 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
81 Styrene	1.24884 0.86583	1.23099 ++++	1.19897	1.13017	1.16098	0.97781	AVRG		1.1623		2.75675
82 Bromoform	0.49125 0.54423	0.47793 ++++	0.54021	0.53976	0.60120	0.53994	AVRG		0.53350		7.53528
83 Isopropylbenzene	3.47744 2.36213	3.44768 ++++	3.26946	3.17908	3.03613	2.75490	AVRG		3.07526		13.01830
84 cis-1,4-Dichloro-2-butene	0.39930 0.30650	0.38859 ++++	0.41715	0.41588	0.38298	0.35451	AVRG		0.38070		10.26963
85 Cyclohexanone	0.11408 0.07835	0.11538 ++++	0.11677	0.11132	0.09800	0.08798	AVRG		0.10308		14.74301
87 1,1,2,2-Tetrachloroethane	1.18020 0.93664	1.08517 ++++	1.10314	1.06850	1.12188	0.96776	AVRG		1.06618		8.05931
88 trans-1,4-Dichloro-2-butene	0.33387 0.27523	0.32390 ++++	0.35356	0.36341	0.33489	0.31613	AVRG		0.32871		8.71883
89 1,2,3-Trichloropropane	0.25907 0.24060	0.25905 ++++	0.26974	0.25761	0.27601	0.24096	AVRG		0.25749		5.20300
90 Bromobenzene	0.86914 0.63712	0.86454 ++++	0.84389	0.77895	0.79056	0.70113	AVRG		0.78362		11.15326

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 02-FEB-2010 16:19
 End Cal Date : 03-FEB-2010 01:00
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
 Cal Date : 15-Feb-2010 12:11 ale01592

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	%RSD or R^2
91 n-Propylbenzene	4.62910	4.20063	4.05621	3.87862	3.74260	3.28261	AVRG		3.96496		11.43289
	++++	++++									
92 1,3,5-Trimethylbenzene	3.00926	2.86426	2.80601	2.69864	2.62053	2.28075	AVRG		2.59904		14.58953
	1.91381	++++									
93 2-Chlorotoluene	3.15991	3.06256	2.99609	2.73630	2.72005	2.29836	AVRG		2.82888		11.11141
	++++	++++									
94 4-Chlorotoluene	2.95055	2.80016	2.68246	2.55324	2.58962	2.33040	AVRG		2.56805		11.44818
	2.06989	++++									
95 tert-Butylbenzene	2.68971	2.66674	2.39174	2.43926	2.39232	2.24075	AVRG		2.39671		10.48359
	1.95843	++++									
96 1,2,4-Trimethylbenzene	3.06823	2.95990	2.84748	2.77279	2.73218	2.50266	AVRG		2.71945		11.30237
	2.15291	++++									
97 Pentachloroethane	0.29060	0.29510	0.29814	0.27173	0.24637	0.22270	AVRG		0.27077		11.25203
	++++	++++									
98 sec-Butylbenzene	3.76630	3.72507	3.53204	3.49551	3.40170	3.11305	AVRG		3.38303		11.52994
	2.64757	++++									
99 4-Isopropyltoluene	2.82552	2.74481	2.68275	2.60489	2.56313	2.37813	AVRG		2.55203		10.10995
	2.06499	++++									

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 02-FEB-2010 16:19
 End Cal Date : 03-FEB-2010 01:00
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
 Cal Date : 15-Feb-2010 12:11 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
100 1,3-Dichlorobenzene	1.72737 Level 7	1.63969 Level 8 ++++	1.52618	1.50762	1.50436	1.36330	AVRG	1.50231	10.67426		
102 1,4-Dichlorobenzene	1.61476 Level 7	1.51747 Level 8 ++++	1.45659	1.43134	1.45476	1.33894	AVRG	1.43435	8.66395		
103 Benzyl chloride	1.34070 Level 7	1.35323 Level 8 ++++	1.45169	1.43673	1.32280	1.22285	AVRG	1.30409	11.80274		
104 n-Butylbenzene	3.23688 Level 7	2.98352 Level 8 ++++	2.92218	2.89958	2.89371	2.63345	AVRG	2.83330	10.83739		
105 1,2-Dichlorobenzene	1.61197 Level 7	1.56696 Level 8 ++++	1.54124	1.52477	1.57445	1.38610	AVRG	1.49818	7.96586		
106 bis(2-Chloroisopropyl) ether	0.69296 Level 7	0.67873 Level 8 ++++	0.7362	0.68910	0.60597	0.59941	AVRG	0.64816	9.19441		
107 1,2-Dibromo-3-chloropropane	0.17499 Level 7	0.15356 Level 8 ++++	0.18274	0.18019	0.21157	0.19904	AVRG	0.18744	11.10838		
108 1,2,4-Trichlorobenzene	1.07697 Level 7	0.98065 Level 8 ++++	0.96159	0.96344	0.99826	0.90251	AVRG	0.96100	7.65240		
109 Hexachlorobutadiene	0.55415 Level 7	0.54912 Level 8 ++++	0.52304	0.52319	0.51453	0.48675	AVRG	0.51366	7.34128		

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 02-FEB-2010 16:19
 End Cal Date : 03-FEB-2010 01:00
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /Chem/VOA7.i/021210v7/VOA7-8260B-020210.m
 Cal Date : 15-Feb-2010 12:11 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
	100 Level 7	200 Level 8									
110 Naphthalene	2.69199	2.30826	2.52700	2.34562	2.58994	2.31619	AVRG		2.43299		6.92185
	2.25194	++++									
111 1,2,3-Trichlorobenzene	0.90097	0.90863	0.90221	0.89197	0.91254	0.82442	AVRG		0.87613		5.44346
	0.79220	++++									
46 1,2-Dichloroethane-d4	0.45882	0.45500	0.45893	0.45701	0.47442	0.44482	AVRG		0.45796		1.90463
	0.45675	++++									
64 Toluene-d8	1.47915	1.48856	1.47530	1.47058	1.48159	1.45706	AVRG		1.47417		0.70393
	1.46694	++++									
86 Bromofluorobenzene	1.29843	1.30787	1.28872	1.29387	1.29483	1.31921	AVRG		1.30212		0.85026
	1.31191	++++									

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 02-FEB-2010 16:19
End Cal Date : 03-FEB-2010 01:00
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
Cal Date : 15-Feb-2010 12:11 ale01592

Curve	Formula	Units
Averaged	Ant = Rsp/ml	Response
Linear	Ant = b + Rsp/ml	Response

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 03-FEB-2010 02:43
Lab File ID: 7x220.d Init. Cal. Date(s): 02-FEB-2010 03-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:19 01:00
Lab Sample ID: W7VM100202-17 Quant Type: ISTD
Method: /chem/VOA7.i/020210v7/VOA7-8260B-020210.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Xylenes (total)	0.64726	0.56253	0.56253	0.050	-13.09069	30.00000	Averaged
3 1,2-Dichloroethylene (total)	0.52390	0.47127	0.47127	0.050	-10.04566	30.00000	Averaged
1 1,3-Dichloropropylene	0.53154	0.49595	0.49595	0.050	-6.69634	30.00000	Averaged
4 Dichlorodifluoromethane	0.21348	0.18287	0.18287	0.050	-14.34195	30.00000	Averaged
5 Chloromethane	0.42234	0.35862	0.35862	0.100	-15.08705	30.00000	Averaged spcc
6 Vinyl chloride	0.30729	0.26969	0.26969	0.050	-12.23707	20.00000	Averaged ccc
7 Bromomethane	0.21662	0.21456	0.21456	0.050	-0.94991	30.00000	Averaged
8 Chloroethane	0.23185	0.21622	0.21622	0.010	-6.74298	30.00000	Averaged
9 Trichlorofluoromethane	0.39265	0.35433	0.35433	0.050	-9.75836	30.00000	Averaged
10 Ethyl Ether	0.33841	0.32412	0.32412	0.001	-4.22247	30.00000	Averaged
13 Acetone	0.36716	0.26251	0.26251	0.050	-28.50288	40.00000	Averaged
17 Acetonitrile	0.06040	0.06106	0.06106	0.010	1.08141	30.00000	Averaged
14 1,1-Dichloroethylene	0.24379	0.22159	0.22159	0.050	-9.10482	20.00000	Averaged ccc
18 Methyl acetate	0.32677	0.28664	0.28664	0.010	-12.28301	40.00000	Averaged
16 Iodomethane	0.43238	0.39076	0.39076	0.050	-9.62715	30.00000	Averaged
22 Methylene chloride	50.95079	50.00000	0.20706	0.050	1.90158	30.00000	Linear
19 Carbon disulfide	0.81272	0.74256	0.74256	0.050	-8.63274	30.00000	Averaged
24 tert-Butyl methyl ether	0.88512	0.78525	0.78525	0.050	-11.28293	30.00000	Averaged
25 trans-1,2-Dichloroethylene	0.49264	0.44207	0.44207	0.050	-10.26526	30.00000	Averaged
26 Vinyl acetate	0.82677	0.61238	0.61238	0.010	-25.93102	40.00000	Averaged
28 1,1-Dichloroethane	0.64941	0.60893	0.60893	0.100	-6.23374	30.00000	Averaged spcc
31 2-Butanone	0.39186	0.27679	0.27679	0.030	-29.36553	40.00000	Averaged
33 cis-1,2-Dichloroethylene	0.55515	0.50046	0.50046	0.050	-9.85078	30.00000	Averaged
34 2,2-Dichloropropane	0.24668	0.22956	0.22956	0.050	-6.93784	30.00000	Averaged
38 Chloroform	0.55795	0.52061	0.52061	0.010	-6.69287	20.00000	Averaged ccc
37 Bromochloromethane	0.40653	0.38344	0.38344	0.010	-5.67994	30.00000	Averaged
41 1,1,1-Trichloroethane	0.41554	0.38251	0.38251	0.010	-7.94873	30.00000	Averaged
43 Cyclohexane	0.58725	0.51026	0.51026	0.010	-13.11031	30.00000	Averaged
44 1,1-Dichloropropene	0.39604	0.35055	0.35055	0.010	-11.48603	30.00000	Averaged
52 n-Butyl alcohol	0.01403	0.01251	0.01251	0.001	-10.83374	40.00000	Averaged
45 Carbon tetrachloride	0.33726	0.30023	0.30023	0.010	-10.97867	30.00000	Averaged
46 1,2-Dichloroethane-d4	0.45796	0.45748	0.45748	0.010	-0.10698	30.00000	Averaged
47 1,2-Dichloroethane	0.53534	0.48785	0.48785	0.010	-8.87152	30.00000	Averaged
48 Benzene	1.16658	1.03255	1.03255	0.010	-11.48910	30.00000	Averaged
50 Cyclohexene	0.57250	0.49325	0.49325	0.010	-13.84226	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 03-FEB-2010 02:43
Lab File ID: 7x220.d Init. Cal. Date(s): 02-FEB-2010 03-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:19 01:00
Lab Sample ID: W7VM100202-17 Quant Type: ISTD
Method: /chem/VOA7.i/020210v7/VOA7-8260B-020210.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
53 Trichloroethylene	0.28975	0.27036	0.27036	0.010	-6.69274	30.00000	Averaged
56 1,2-Dichloropropane	0.37098	0.33716	0.33716	0.010	-9.11743	20.00000	Averaged ccc
55 Methylcyclohexane	0.47494	0.39710	0.39710	0.010	-16.39042	30.00000	Averaged
59 Bromodichloromethane	0.45935	0.43055	0.43055	0.010	-6.26783	30.00000	Averaged
58 Dibromomethane	0.21001	0.19854	0.19854	0.010	-5.46236	30.00000	Averaged
61 2-Chloroethylvinyl ether	0.13424	0.11864	0.11864	0.010	-11.62370	30.00000	Averaged
63 4-Methyl-2-pentanone	0.23648	0.19408	0.19408	0.010	-17.92954	40.00000	Averaged
62 cis-1,3-Dichloropropylene	0.56166	0.51323	0.51323	0.010	-8.62230	30.00000	Averaged
64 Toluene-d8	1.47417	1.49670	1.49670	0.010	1.52850	30.00000	Averaged
65 Toluene	0.89123	0.81503	0.81503	0.010	-8.54979	20.00000	Averaged ccc
67 trans-1,3-Dichloropropylene	0.64378	0.61544	0.61544	0.010	-4.40135	30.00000	Averaged
68 1,1,2-Trichloroethane	0.33858	0.30698	0.30698	0.010	-9.33378	30.00000	Averaged
69 2-Hexanone	0.69089	0.40253	0.40253	0.010	-41.73762	40.00000	Averaged <-
70 1,3-Dichloropropane	0.69391	0.58104	0.58104	0.010	-16.26537	30.00000	Averaged
71 Tetrachloroethylene	0.25717	0.20498	0.20498	0.010	-20.29410	30.00000	Averaged
72 Dibromochloromethane	0.41548	0.40071	0.40071	0.010	-3.55495	30.00000	Averaged
73 1,2-Dibromoethane	0.40059	0.37359	0.37359	0.010	-6.74195	30.00000	Averaged
76 Chlorobenzene	0.92940	0.85939	0.85939	0.300	-7.53218	30.00000	Averaged spcc
77 1,1,1,2-Tetrachloroethane	0.34428	0.32443	0.32443	0.010	-5.76602	30.00000	Averaged
78 Ethylbenzene	1.74621	1.40350	1.40350	0.010	-19.62598	20.00000	Averaged ccc
79 m,p-Xylenes	0.63414	0.54782	0.54782	0.010	-13.61091	30.00000	Averaged
80 o-Xylene	0.67350	0.59193	0.59193	0.010	-12.11107	30.00000	Averaged
81 Styrene	1.11623	0.98966	0.98966	0.010	-11.33830	30.00000	Averaged
82 Bromoform	0.53350	0.52910	0.52910	0.100	-0.82525	30.00000	Averaged spcc
83 Isopropylbenzene	3.07526	2.66135	2.66135	0.010	-13.45928	30.00000	Averaged
87 1,1,2,2-Tetrachloroethane	1.06618	0.94191	0.94191	0.300	-11.65577	30.00000	Averaged spcc
86 Bromofluorobenzene	1.30212	1.32480	1.32480	0.010	1.74181	30.00000	Averaged
89 1,2,3-Trichloropropane	0.25749	0.23552	0.23552	0.010	-8.53207	30.00000	Averaged
90 Bromobenzene	0.78362	0.71599	0.71599	0.010	-8.63023	30.00000	Averaged
91 n-Propylbenzene	3.96496	3.19967	3.19967	0.010	-19.30132	30.00000	Averaged
93 2-Chlorotoluene	2.82888	2.31947	2.31947	0.010	-18.00747	30.00000	Averaged
92 1,3,5-Trimethylbenzene	2.59904	2.24606	2.24606	0.010	-13.58114	30.00000	Averaged
94 4-Chlorotoluene	2.56805	2.30508	2.30508	0.010	-10.24010	30.00000	Averaged
95 tert-Butylbenzene	2.39671	2.13856	2.13856	0.010	-10.77078	30.00000	Averaged
96 1,2,4-Trimethylbenzene	2.71945	2.42028	2.42028	0.010	-11.00113	30.00000	Averaged
98 sec-Butylbenzene	3.38303	2.95447	2.95447	0.010	-12.66811	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 03-FEB-2010 02:43
 Lab File ID: 7x220.d Init. Cal. Date(s): 02-FEB-2010 03-FEB-2010
 Analysis Type: WATER Init. Cal. Times: 16:19 01:00
 Lab Sample ID: W7VM100202-17 Quant Type: ISTD
 Method: /chem/VOA7.i/020210v7/VOA7-8260B-020210.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
99 4-Isopropyltoluene	2.55203	2.26090	2.26090	0.010	-11.40778	30.00000	Averaged
100 1,3-Dichlorobenzene	1.50231	1.35265	1.35265	0.010	-9.96241	30.00000	Averaged
102 1,4-Dichlorobenzene	1.43435	1.32896	1.32896	0.010	-7.34703	30.00000	Averaged
104 n-Butylbenzene	2.83330	2.51256	2.51256	0.010	-11.32032	30.00000	Averaged
105 1,2-Dichlorobenzene	1.49818	1.39177	1.39177	0.010	-7.10266	30.00000	Averaged
107 1,2-Dibromo-3-chloropropane	0.18744	0.19820	0.19820	0.010	5.74350	30.00000	Averaged
108 1,2,4-Trichlorobenzene	0.96100	0.90206	0.90206	0.010	-6.13265	30.00000	Averaged
109 Hexachlorobutadiene	0.51366	0.46391	0.46391	0.010	-9.68545	30.00000	Averaged
110 Naphthalene	2.43299	2.32186	2.32186	0.010	-4.56752	30.00000	Averaged
111 1,2,3-Trichlorobenzene	0.87613	0.86946	0.86946	0.010	-0.76178	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 10.42169

Maximum Average %D/Drift = 20.00000

* Passed Average %D/Drift Test.

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/020210v7/7x220.d

Lab Smp Id: W7VM100202-17

Client Smp ID: ICV

Inj Date : 03-FEB-2010 02:43

Operator : AX01

Inst ID: VOA7.i

Smp Info : |W7VM100202-17|ICV|1|VOAF|1|

Misc Info : GEL 5mL N/A UVM100126-01A/IVM100202-01 ULTRA

Comment :

Method : /chem/VOA7.i/020210v7/VOA7-8260B-020210.m

Meth Date : 03-Feb-2010 10:38 ale01592 Quant Type: ISTD

Cal Date : 03-FEB-2010 00:25

Cal File: 7x216.d

Als bottle: 29

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: CALsubL+.sub

Target Version: 3.50

Processing Host: prdsrv07

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	sample purged

Cpnd Variable

Local Compound Variable

		QUANT SIG				AMOUNTS	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	
M 2 Xylenes (total)		106				1072145	150.000 130
M 3 1,2-Dichloroethylene (total)		96				769909	100.000 89.9
M 1 1,3-Dichloropropylene		75				810231	100.000 93.3
4 Dichlorodifluoromethane		85	5.147	5.147	(0.336)	149374	50.0000 42.8
5 Chloromethane		50	5.757	5.757	(0.376)	292937	50.0000 42.4
6 Vinyl chloride		62	6.188	6.188	(0.404)	220296	50.0000 43.9
7 Bromomethane		94	7.429	7.429	(0.485)	175267	50.0000 49.5
8 Chloroethane		64	7.855	7.855	(0.513)	176616	50.0000 46.6
9 Trichlorofluoromethane		101	8.789	8.789	(0.574)	289437	50.0000 45.1
10 Ethyl Ether		59	9.703	9.703	(0.633)	264761	50.0000 47.9
13 Acetone		43	10.423	10.423	(0.681)	1072148	250.000 179
17 Acetonitrile		41	11.073	11.073	(0.723)	997476	1000.00 1010
14 1,1-Dichloroethylene		96	10.312	10.312	(0.673)	181006	50.0000 45.4
18 Methyl acetate		43	11.225	11.225	(0.733)	1170696	250.000 219
16 Iodomethane		142	10.667	10.667	(0.696)	1595946	250.000 226

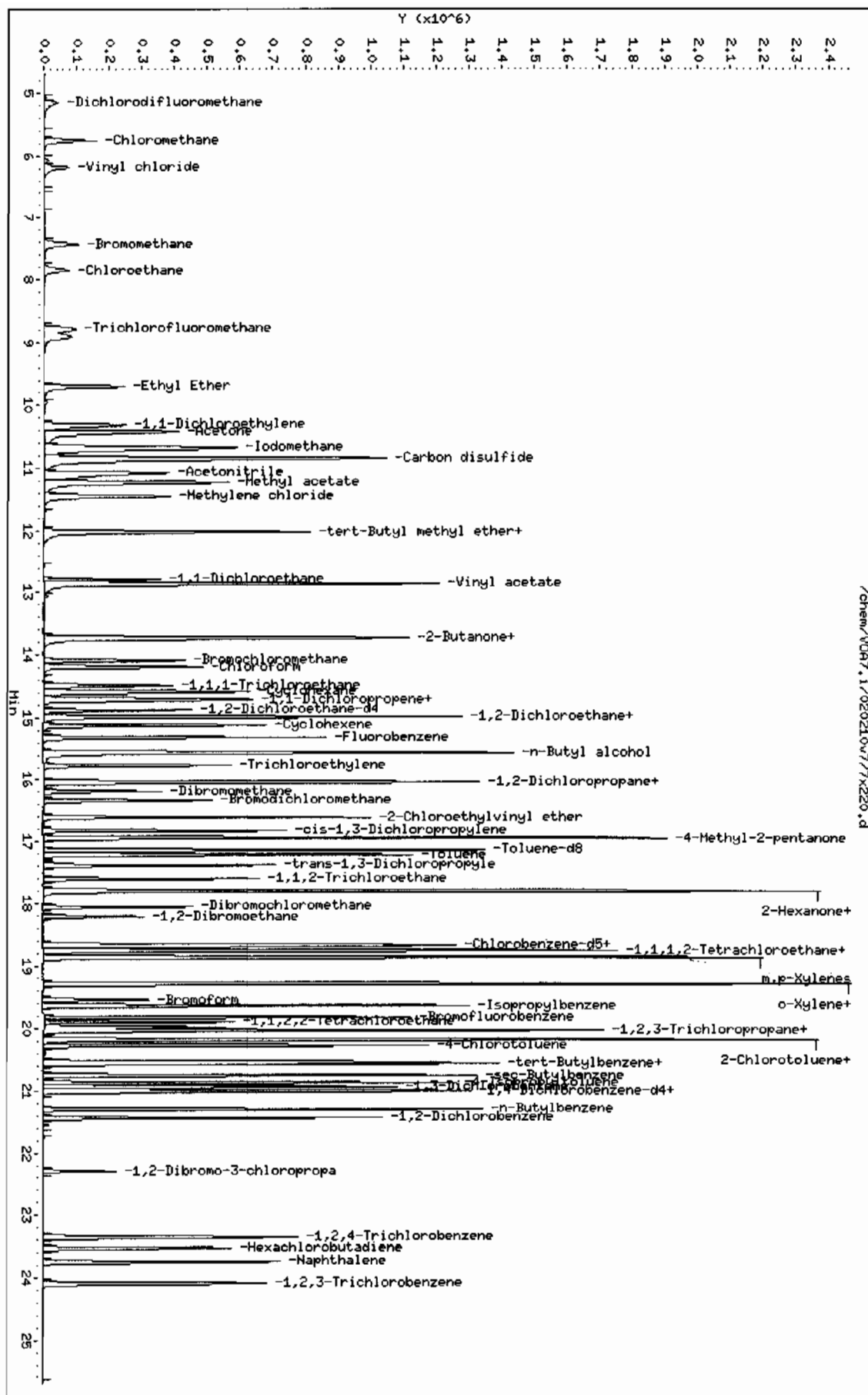
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
22 Methylene chloride	86	11.449	11.449	(0.747)	169140	50.0000	51.0
19 Carbon disulfide	76	10.840	10.840	(0.708)	3032780	250.000	228
24 tert-Butyl methyl ether	73	12.017	12.017	(0.785)	641431	50.0000	44.4
25 trans-1,2-Dichloroethylene	61	12.027	12.027	(0.785)	361105	50.0000	44.9
26 Vinyl acetate	43	12.860	12.860	(0.840)	2501108	250.000	185
28 1,1-Dichloroethane	63	12.799	12.799	(0.836)	497401	50.0000	46.9
31 2-Butanone	43	13.723	13.723	(0.896)	1130466	250.000	176
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	408804	50.0000	45.1
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	187517	50.0000	46.5
38 Chloroform	83	14.190	14.190	(0.926)	425257	50.0000	46.6
37 Bromochloromethane	49	14.088	14.088	(0.920)	313210	50.0000	47.2
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	312451	50.0000	46.0
43 Cyclohexane	56	14.586	14.586	(0.952)	416805	50.0000	43.4
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	286346	50.0000	44.2
52 n-Butyl alcohol	56	15.560	15.560	(1.016)	1021789	5000.00	4460
45 Carbon tetrachloride	117	14.728	14.728	(0.962)	245242	50.0000	44.5
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	373688	50.0000	49.9
47 1,2-Dichloroethane	62	14.982	14.982	(0.978)	398498	50.0000	45.6
48 Benzene	78	14.982	14.982	(0.978)	843435	50.0000	44.2
50 Cyclohexene	67	15.124	15.124	(0.987)	402913	50.0000	43.1
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	816849	50.0000	
53 Trichloroethylene	95	15.763	15.763	(1.029)	220843	50.0000	46.6
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	275409	50.0000	45.4
55 Methylcyclohexane	83	16.027	16.027	(1.046)	324370	50.0000	41.8
59 Bromodichloromethane	83	16.332	16.332	(1.066)	351698	50.0000	46.9
58 Dibromomethane	93	16.179	16.179	(1.056)	162179	50.0000	47.3
61 2-Chloroethylvinyl ether	63	16.606	16.606	(1.084)	484548	250.000	221
63 4-Methyl-2-pentanone	58	16.941	16.941	(0.908)	616503	250.000	205
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	419231	50.0000	45.7
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	950876	50.0000	50.8
65 Toluene	92	17.215	17.215	(0.922)	517803	50.0000	45.7
67 trans-1,3-Dichloropropylene	75	17.388	17.388	(0.931)	391000	50.0000	47.8
68 1,1,2-Trichloroethane	83	17.611	17.611	(0.943)	195027	50.0000	45.3
69 2-Hexanone	43	17.804	17.804	(0.954)	1278658	250.000	146
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	369145	50.0000	41.9
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	130225	50.0000	39.8
72 Dibromochloromethane	129	18.058	18.058	(0.967)	254580	50.0000	48.2
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	237345	50.0000	46.6
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	635315	50.0000	
76 Chlorobenzene	112	18.697	18.697	(1.002)	545986	50.0000	46.2
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	206117	50.0000	47.1
78 Ethylbenzene	91	18.768	18.768	(1.005)	891666	50.0000	40.2
79 m,p-Xylenes	106	18.870	18.870	(1.011)	696081	100.000	86.4
80 o-Xylene	106	19.286	19.286	(1.033)	376064	50.0000	43.9
81 Styrene	104	19.286	19.286	(1.033)	628749	50.0000	44.3
82 Bromoform	173	19.540	19.540	(0.931)	175571	50.0000	49.6
83 Isopropylbenzene	105	19.631	19.631	(0.935)	883114	50.0000	43.3

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
87 1,1,2,2-Tetrachloroethane	83	19.885	19.885	(0.947)	312554	50.0000	44.2
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	439607	50.0000	50.9
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	78153	50.0000	45.7
90 Bromobenzene	156	20.017	20.017	(0.954)	237586	50.0000	45.7
91 n-Propylbenzene	91	20.027	20.027	(0.954)	1061744	50.0000	40.3
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	769667	50.0000	41.0
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	745307	50.0000	43.2
94 4-Chlorotoluene	91	20.271	20.271	(0.966)	764891	50.0000	44.9
95 tert-Butylbenzene	119	20.535	20.535	(0.978)	709637	50.0000	44.6
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	803119	50.0000	44.5
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	980378	50.0000	43.7
99 4-Isopropyltoluene	119	20.859	20.859	(0.994)	750233	50.0000	44.3
100 1,3-Dichlorobenzene	146	20.931	20.931	(0.997)	448847	50.0000	45.0
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991	(1.000)	331829	50.0000	
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	440989	50.0000	46.3
104 n-Butylbenzene	91	21.296	21.296	(1.014)	833740	50.0000	44.3
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	461830	50.0000	46.4
107 1,2-Dibromo-3-chloropropane	157	22.291	22.291	(1.062)	65769	50.0000	52.9
108 1,2,4-Trichlorobenzene	180	23.357	23.357	(1.113)	299330	50.0000	46.9
109 Hexachlorobutadiene	225	23.529	23.529	(1.121)	153940	50.0000	45.2
110 Naphthalene	128	23.743	23.743	(1.131)	770462	50.0000	47.7
111 1,2,3-Trichlorobenzene	180	24.098	24.098	(1.148)	288512	50.0000	49.6

Data File: /chem/V007.1/020210v77x220.d
 Date: 03-FEB-2010 02:43
 Client ID: ICV
 Sample Info: IN7MHL00202-171ICV11V00F111
 Purge Volume: 5.0
 Column phase: DB-624

Instrument: V007.1
 Operator: AX01
 Column diameter: 0.25

/chem/V007.1/020210v77x220.d



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 03-FEB-2010 03:18
Lab File ID: 7x221.d Init. Cal. Date(s): 02-FEB-2010 03-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:19 01:00
Lab Sample ID: W7VM100202-18 Quant Type: ISTD
Method: /chem/VOA7.i/020210v7/VOA7-8260B-020210.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
147 Chlorotrifluoroethylene	0.14609	0.10932	0.10932	0.010	-25.17011	30.00000	Averaged
148 2-Chloro-1,1,1-trifluoroeth	0.26499	0.23643	0.23643	0.010	-10.78112	30.00000	Averaged
11 Acrolein	0.07592	0.05977	0.05977	0.001	-21.27184	30.00000	Averaged
12 Trichlorotrifluoroethane	0.09966	0.08929	0.08929	0.010	-10.40654	30.00000	Averaged
15 Isopropyl Alcohol	0.03202	0.03325	0.03325	0.010	3.86163	40.00000	Averaged
20 Allyl chloride	0.53829	0.43852	0.43852	0.010	-18.53552	30.00000	Averaged
21 tert-Butyl Alcohol	0.04774	0.04623	0.04623	0.001	-3.15094	40.00000	Averaged
23 Acrylonitrile	0.14520	0.12966	0.12966	0.010	-10.70237	30.00000	Averaged
27 Isopropyl ether	1.43819	1.25724	1.25724	0.010	-12.58195	30.00000	Averaged
29 2-Chloro-1,3-butadiene	0.47612	0.42690	0.42690	0.010	-10.33741	30.00000	Averaged
30 Ethyl tert-butyl ether	0.91101	0.84718	0.84718	0.010	-7.00634	30.00000	Averaged
35 Propionitrile	0.05689	0.04893	0.04893	0.010	-13.99997	30.00000	Averaged
32 Ethyl acetate	0.42139	0.32004	0.32004	0.010	-24.04973	40.00000	Averaged
36 Methacrylonitrile	0.26359	0.20784	0.20784	0.010	-21.14896	30.00000	Averaged
39 Tetrahydrofuran	0.34644	0.28353	0.28353	0.010	-18.15778	30.00000	Averaged
42 Isobutyl alcohol	0.01805	0.01456	0.01456	0.005	-19.32117	40.00000	Averaged
49 Methyl tert-amyl ether	0.67547	0.63768	0.63768	0.010	-5.59488	30.00000	Averaged
54 Methyl methacrylate	0.23233	0.18915	0.18915	0.010	-18.58423	30.00000	Averaged
66 Ethyl methacrylate	0.58890	0.44188	0.44188	0.010	-24.96575	30.00000	Averaged
74 1-Chlorohexane	0.37201	0.31817	0.31817	0.010	-14.47417	30.00000	Averaged
57 1,4-Dioxane	0.00322	0.00293	0.00293	0.001	-8.74609	40.00000	Averaged
60 2-Nitropropane	0.15381	0.13843	0.13843	0.010	-9.99897	30.00000	Averaged
84 cis-1,4-Dichloro-2-butene	0.38070	0.33273	0.33273	0.010	-12.59973	30.00000	Averaged
85 Cyclohexanone	0.10308	0.02511	0.02511	0.010	-75.63853	40.00000	Averaged <-
88 trans-1,4-Dichloro-2-butene	0.32871	0.29184	0.29184	0.010	-11.21873	30.00000	Averaged
97 Pentachloroethane	0.27077	0.16705	0.16705	0.010	-38.30767	30.00000	Averaged <-
103 Benzyl chloride	1.30409	0.98665	0.98665	0.010	-24.34214	30.00000	Averaged
106 bis(2-Chloroisopropyl)ether	0.64816	0.54010	0.54010	0.010	-16.67173	30.00000	Averaged
\$ 46 1,2-Dichloroethane-d4	0.45796	0.44617	0.44617	0.010	-2.57449	30.00000	Averaged
\$ 64 Toluene-d8	1.47417	1.54131	1.54131	0.010	4.55479	30.00000	Averaged
\$ 86 Bromofluorobenzene	1.30212	1.24942	1.24942	0.010	-4.04689	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 03-FEB-2010 03:18
Lab File ID: 7x221.d Init. Cal. Date(s): 02-FEB-2010 03-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:19 01:00
Lab Sample ID: W7VM100202-18 Quant Type: ISTD
Method: /chem/VOA7.i/020210v7/VOA7-8260B-020210.m

Average %D / Drift Results.	
=====	
Calculated Average %D/Drift =	16.21943
Maximum Average %D/Drift =	20.00000
* Passed Average %D/Drift Test.	

Data File: /chem/VOA7.i/020210v7/7x221.d
Report Date: 03-Feb-2010 10:38

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/020210v7/7x221.d

Lab Smp Id: W7VM100202-18

Client Smp ID: SICV

Inj Date : 03-FEB-2010 03:18

Operator : AX01

Inst ID: VOA7.i

Smp Info : |W7VM100202-18|SICV|1|VOAF|1|

Misc Info : GEL 5mL N/A UVM100118-08A/UVM100125-08A

Comment :

Method : /chem/VOA7.i/020210v7/VOA7-8260B-020210.m

Meth Date : 03-Feb-2010 10:38 ale01592 Quant Type: ISTD

Cal Date : 03-FEB-2010 00:25

Cal File: 7x216.d

Als bottle: 30

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: CALsubS+SS.sub

Target Version: 3.50

Processing Host: prdsrv07

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	sample purged

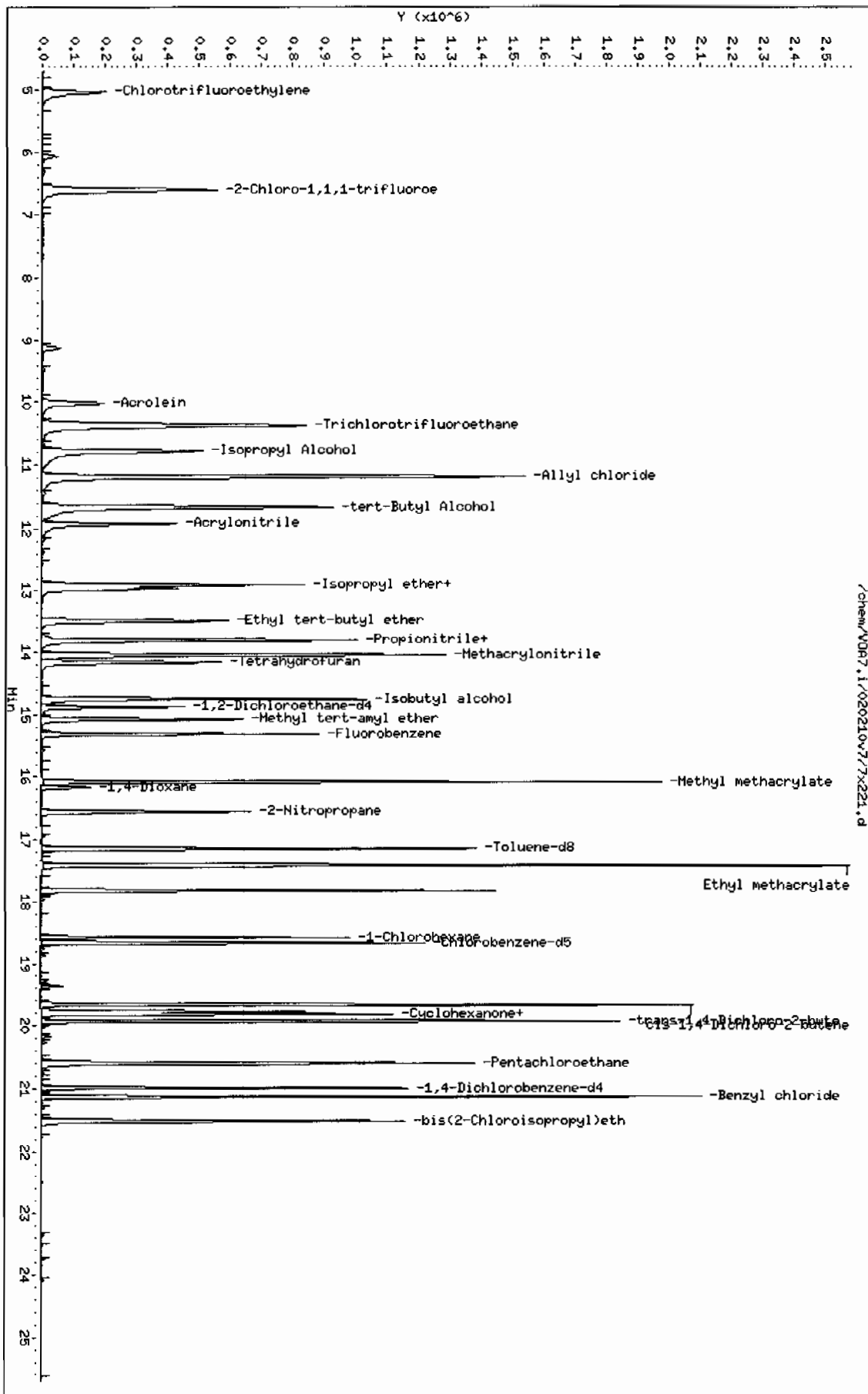
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			AMOUNTS	
	MASS	RT	EXP RT REL RT	RESPONSE	CAL-AMT ON-COL
					(ug/l) (ug/l)
147 Chlorotrifluoroethylene	116	5.029	5.029 (0.328)	272205	150.000 112
148 2-Chloro-1,1,1-trifluoroethane	118	6.604	6.604 (0.431)	588705	150.000 134
11 Acrolein	56	10.017	10.017 (0.654)	248053	250.000 197
12 Trichlorotrifluoroethane	85	10.373	10.373 (0.677)	370549	250.000 224
15 Isopropyl Alcohol	45	10.779	10.779 (0.704)	1379995	2500.00 2600
20 Allyl chloride	41	11.185	11.185 (0.730)	1819873	250.000 204
21 tert-Butyl Alcohol	59	11.662	11.662 (0.761)	1918666	2500.00 2420
23 Acrylonitrile	53	11.926	11.926 (0.779)	538091	250.000 223
27 Isopropyl ether	45	12.900	12.900 (0.842)	1043518	50.0000 43.7
29 2-Chloro-1,3-butadiene	53	12.961	12.961 (0.846)	354333	50.0000 44.8
30 Ethyl tert-butyl ether	59	13.489	13.489 (0.881)	703168	50.0000 46.5
35 Propionitrile	54	13.804	13.804 (0.901)	203053	250.000 215
32 Ethyl acetate	43	13.804	13.804 (0.901)	1328196	250.000 190
36 Methacrylonitrile	41	14.037	14.037 (0.916)	862565	250.000 197
39 Tetrahydrofuran	42	14.159	14.159 (0.675)	485570	250.000 205

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	==	=====	=====	=====	=====	=====
42 Isobutyl alcohol	41	14.748	14.748	(0.963)	604444	2500.00	2020
49 Methyl tert-amyl ether	73	15.073	15.073	(0.984)	529279	50.0000	47.2
54 Methyl methacrylate	69	16.078	16.078	(1.050)	784999	250.000	204
66 Ethyl methacrylate	69	17.408	17.408	(0.933)	1401802	250.000	188
74 1-Chlorohexane	55	18.575	18.575	(1.213)	264081	50.0000	42.8
57 1,4-Dioxane	88	16.159	16.159	(1.055)	121758	2500.00	2280
60 2-Nitropropane	43	16.555	16.555	(1.081)	574478	250.000	225
84 cis-1,4-Dichloro-2-butene	53	19.662	19.662	(0.937)	569828	250.000	218
85 Cyclohexanone	55	19.773	19.773	(1.059)	398334	1250.00	304
88 trans-1,4-Dichloro-2-butene	53	19.925	19.925	(0.949)	499789	250.000	222
97 Pentachloroethane	167	20.596	20.596	(0.981)	286079	250.000	154
103 Benzyl chloride	91	21.123	21.123	(1.006)	1689701	250.000	189
106 bis(2-Chloroisopropyl)ether	45	21.509	21.509	(1.025)	924959	250.000	208
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	830009	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	634478	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991	(1.000)	342513	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	370329	50.0000	48.7
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	977929	50.0000	52.3
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	427944	50.0000	48.0

Data File: /chem/V007.1/020210v7/7x221.d
 Date: 03-FEB-2010 03:18
 Client ID: SICV
 Sample Info: 1M7VH100202-18SICV11V00F11
 Purge Volume: 5.0
 Column phase: DB-624

Instrument: V007.1
 Operator: AX01
 Column diameter: 0.25



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 11-FEB-2010 22:10
Lab File ID: 7y424.d Init. Cal. Date(s): 02-FEB-2010 03-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:19 01:00
Lab Sample ID: W7VM100211-06 Quant Type: ISTD
Method: /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Xylenes (total)	0.64726	0.61897	0.61897	0.050	-4.37031	30.00000	Averaged
3 1,2-Dichloroethylene (total)	0.52390	0.47676	0.47676	0.050	-8.99723	30.00000	Averaged
1 1,3-Dichloropropylene	0.53154	0.48616	0.48616	0.050	-8.53843	30.00000	Averaged
4 Dichlorodifluoromethane	0.21348	0.15277	0.15277	0.050	-28.43825	30.00000	Averaged
5 Chloromethane	0.42234	0.36073	0.36073	0.100	-14.58749	30.00000	Averaged spcc
6 Vinyl chloride	0.30729	0.27396	0.27396	0.050	-10.84650	20.00000	Averaged ccc
7 Bromomethane	0.21662	0.20978	0.20978	0.050	-3.15980	30.00000	Averaged
8 Chloroethane	0.23185	0.20259	0.20259	0.010	-12.62185	30.00000	Averaged
9 Trichlorofluoromethane	0.39265	0.32787	0.32787	0.050	-16.49781	30.00000	Averaged
10 Ethyl Ether	0.33841	0.30020	0.30020	0.001	-11.29180	30.00000	Averaged
13 Acetone	0.36716	0.32163	0.32163	0.050	-12.39917	40.00000	Averaged
17 Acetonitrile	0.06040	0.06707	0.06707	0.010	11.04455	30.00000	Averaged
14 1,1-Dichloroethylene	0.24379	0.22581	0.22581	0.050	-7.37286	20.00000	Averaged ccc
18 Methyl acetate	0.32677	0.30977	0.30977	0.010	-5.20510	40.00000	Averaged
16 Iodomethane	0.43238	0.39616	0.39616	0.050	-8.37674	30.00000	Averaged
22 Methylene chloride	49.54872	50.00000	0.20154	0.050	-0.90256	30.00000	Linear
19 Carbon disulfide	0.81272	0.74129	0.74129	0.050	-8.78889	30.00000	Averaged
24 tert-Butyl methyl ether	0.88512	0.81952	0.81952	0.050	-7.41123	30.00000	Averaged
25 trans-1,2-Dichloroethylene	0.49264	0.44944	0.44944	0.050	-8.77002	30.00000	Averaged
26 Vinyl acetate	0.82677	0.61666	0.61666	0.010	-25.41344	40.00000	Averaged
28 1,1-Dichloroethane	0.64941	0.60750	0.60750	0.100	-6.45397	30.00000	Averaged spcc
31 2-Butanone	0.39186	0.34081	0.34081	0.030	-13.02836	40.00000	Averaged
33 cis-1,2-Dichloroethylene	0.55515	0.50408	0.50408	0.050	-9.19886	30.00000	Averaged
34 2,2-Dichloropropane	0.24668	0.24955	0.24955	0.050	1.16593	30.00000	Averaged
38 Chloroform	0.55795	0.50407	0.50407	0.010	-9.65673	20.00000	Averaged ccc
37 Bromochloromethane	0.40653	0.38048	0.38048	0.010	-6.40714	30.00000	Averaged
41 1,1,1-Trichloroethane	0.41554	0.37295	0.37295	0.010	-10.24846	30.00000	Averaged
43 Cyclohexane	0.58725	0.51023	0.51023	0.010	-13.11539	30.00000	Averaged
44 1,1-Dichloropropene	0.39604	0.34634	0.34634	0.010	-12.54994	30.00000	Averaged
52 n-Butyl alcohol	0.01403	0.01454	0.01454	0.001	3.63279	40.00000	Averaged
45 Carbon tetrachloride	0.33726	0.29922	0.29922	0.010	-11.27873	30.00000	Averaged
46 1,2-Dichloroethane-d4	0.45796	0.44145	0.44145	0.010	-3.60536	30.00000	Averaged
47 1,2-Dichloroethane	0.53534	0.50222	0.50222	0.010	-6.18691	30.00000	Averaged
48 Benzene	1.16658	1.01802	1.01802	0.010	-12.73396	30.00000	Averaged
50 Cyclohexene	0.57250	0.50740	0.50740	0.010	-11.37170	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 11-FEB-2010 22:10
Lab File ID: 7y424.d Init. Cal. Date(s): 02-FEB-2010 03-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:19 01:00
Lab Sample ID: W7VM100211-06 Quant Type: ISTD
Method: /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
53 Trichloroethylene	0.28975	0.26998	0.26998	0.010	-6.82274	30.00000	Averaged
56 1,2-Dichloropropane	0.37098	0.33856	0.33856	0.010	-8.73961	20.00000	Averaged ccc
55 Methylcyclohexane	0.47494	0.41810	0.41810	0.010	-11.96920	30.00000	Averaged
59 Bromodichloromethane	0.45935	0.41710	0.41710	0.010	-9.19782	30.00000	Averaged
58 Dibromomethane	0.21001	0.20159	0.20159	0.010	-4.01005	30.00000	Averaged
61 2-Chloroethylvinyl ether	0.13424	0.13021	0.13021	0.010	-3.00741	30.00000	Averaged
63 4-Methyl-2-pentanone	0.23648	0.22640	0.22640	0.010	-4.26116	40.00000	Averaged
62 cis-1,3-Dichloropropylene	0.56166	0.50098	0.50098	0.010	-10.80257	30.00000	Averaged
64 Toluene-d8	1.47417	1.56265	1.56265	0.010	6.00252	30.00000	Averaged
65 Toluene	0.89123	0.87331	0.87331	0.010	-2.01095	20.00000	Averaged ccc
67 trans-1,3-Dichloropropylene	0.64378	0.66836	0.66836	0.010	3.81915	30.00000	Averaged
68 1,1,2-Trichloroethane	0.33858	0.33430	0.33430	0.010	-1.26505	30.00000	Averaged
69 2-Hexanone	0.69089	0.53552	0.53552	0.010	-22.48856	40.00000	Averaged
70 1,3-Dichloropropane	0.69391	0.65668	0.65668	0.010	-5.36564	30.00000	Averaged
71 Tetrachloroethylene	0.25717	0.22871	0.22871	0.010	-11.06535	30.00000	Averaged
72 Dibromochloromethane	0.41548	0.41535	0.41535	0.010	-0.03254	30.00000	Averaged
73 1,2-Dibromoethane	0.40059	0.39736	0.39736	0.010	-0.80665	30.00000	Averaged
76 Chlorobenzene	0.92940	0.89982	0.89982	0.300	-3.18236	30.00000	Averaged spcc
77 1,1,1,2-Tetrachloroethane	0.34428	0.34983	0.34983	0.010	1.61162	30.00000	Averaged
78 Ethylbenzene	1.74621	1.55656	1.55656	0.010	-10.86101	20.00000	Averaged ccc
79 m,p-Xylenes	0.63414	0.60042	0.60042	0.010	-5.31700	30.00000	Averaged
80 o-Xylene	0.67350	0.65607	0.65607	0.010	-2.58760	30.00000	Averaged
81 Styrene	1.11623	1.07225	1.07225	0.010	-3.93936	30.00000	Averaged
82 Bromoform	0.53350	0.56922	0.56922	0.100	6.69485	30.00000	Averaged spcc
83 Isopropylbenzene	3.07526	3.03393	3.03393	0.010	-1.34387	30.00000	Averaged
87 1,1,2,2-Tetrachloroethane	1.06618	1.08678	1.08678	0.300	1.93153	30.00000	Averaged spcc
86 Bromofluorobenzene	1.30212	1.40489	1.40489	0.010	7.89225	30.00000	Averaged
89 1,2,3-Trichloropropane	0.25749	0.25408	0.25408	0.010	-1.32640	30.00000	Averaged
90 Bromobenzene	0.78362	0.77214	0.77214	0.010	-1.46516	30.00000	Averaged
91 n-Propylbenzene	3.96496	3.72776	3.72776	0.010	-5.98236	30.00000	Averaged
93 2-Chlorotoluene	2.82888	2.70071	2.70071	0.010	-4.53078	30.00000	Averaged
92 1,3,5-Trimethylbenzene	2.59904	2.62477	2.62477	0.010	0.99003	30.00000	Averaged
94 4-Chlorotoluene	2.56805	2.51587	2.51587	0.010	-2.03175	30.00000	Averaged
95 tert-Butylbenzene	2.39671	2.39730	2.39730	0.010	0.02487	30.00000	Averaged
96 1,2,4-Trimethylbenzene	2.71945	2.72370	2.72370	0.010	0.15626	30.00000	Averaged
98 sec-Butylbenzene	3.38303	3.35850	3.35850	0.010	-0.72509	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 11-FEB-2010 22:10
 Lab File ID: 7y424.d Init. Cal. Date(s): 02-FEB-2010 03-FEB-2010
 Analysis Type: WATER Init. Cal. Times: 16:19 01:00
 Lab Sample ID: W7VM100211-06 Quant Type: ISTD
 Method: /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
99 4-Isopropyltoluene	2.55203	2.55425	2.55425	0.010	0.08697	30.00000	Averaged
100 1,3-Dichlorobenzene	1.50231	1.42509	1.42509	0.010	-5.14001	30.00000	Averaged
102 1,4-Dichlorobenzene	1.43435	1.43380	1.43380	0.010	-0.03779	30.00000	Averaged
104 n-Butylbenzene	2.83330	2.86801	2.86801	0.010	1.22499	30.00000	Averaged
105 1,2-Dichlorobenzene	1.49818	1.47493	1.47493	0.010	-1.55197	30.00000	Averaged
107 1,2-Dibromo-3-chloropropane	0.18744	0.21338	0.21338	0.010	13.84164	30.00000	Averaged
108 1,2,4-Trichlorobenzene	0.96100	0.94166	0.94166	0.010	-2.01197	30.00000	Averaged
109 Hexachlorobutadiene	0.51366	0.49004	0.49004	0.010	-4.59863	30.00000	Averaged
110 Naphthalene	2.43299	2.54741	2.54741	0.010	4.70286	30.00000	Averaged
111 1,2,3-Trichlorobenzene	0.87613	0.88863	0.88863	0.010	1.42672	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 6.84633
 Maximum Average %D/Drift = 20.00000
 * Passed Average %D/Drift Test.

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021110v7/7y424.d
 Lab Smp Id: W7VM100211-06 Client Smp ID: VSTD050
 Inj Date : 11-FEB-2010 22:10
 Operator : AX01 Inst ID: VOA7.i
 Smp Info : |W7VM100211-06|BFB/CCV|1|VOAF|1|
 Misc Info : GEL 5mL N/A UVM100106-07C/UVM100202-07B
 Comment :
 Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m
 Meth Date : 22-Feb-2010 06:38 ale01592 Quant Type: ISTD
 Cal Date : 03-FEB-2010 00:25 Cal File: 7x216.d
 Als bottle: 24 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: CALsubL+.sub
 Target Version: 3.50
 Processing Host: prdsvr07

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	sample purged

Cpnd Variable Local Compound Variable

						AMOUNTS	
		QUANT	SIG			CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
=====	=====	==	=====	=====	=====	=====	=====
M 2 Xylenes (total)	106				1315034	150.000	143
M 3 1,2-Dichloroethylene (total)	96				957554	100.000	91.0
M 1 1,3-Dichloropropylene	75				976428	100.000	91.5
4 Dichlorodifluoromethane	85	5.147	5.147	(0.336)	153419	50.0000	35.8
5 Chloromethane	50	5.757	5.757	(0.376)	362254	50.0000	42.7
6 Vinyl chloride	62	6.188	6.188	(0.404)	275122	50.0000	44.6
7 Bromomethane	94	7.418	7.418	(0.484)	210665	50.0000	48.4
8 Chloroethane	64	7.855	7.855	(0.513)	203443	50.0000	43.7
9 Trichlorofluoromethane	101	8.789	8.789	(0.574)	329258	50.0000	41.8
10 Ethyl Ether	59	9.703	9.703	(0.633)	301471	50.0000	44.4
13 Acetone	43	10.413	10.413	(0.680)	1614975	250.000	219
17 Acetonitrile	41	11.073	11.073	(0.723)	1347162	1000.00	1110
14 1,1-Dichloroethylene	96	10.312	10.312	(0.673)	226768	50.0000	46.3
18 Methyl acetate	43	11.215	11.215	(0.732)	1555381	250.000	237
16 Iodomethane	142	10.667	10.667	(0.696)	1989195	250.000	229

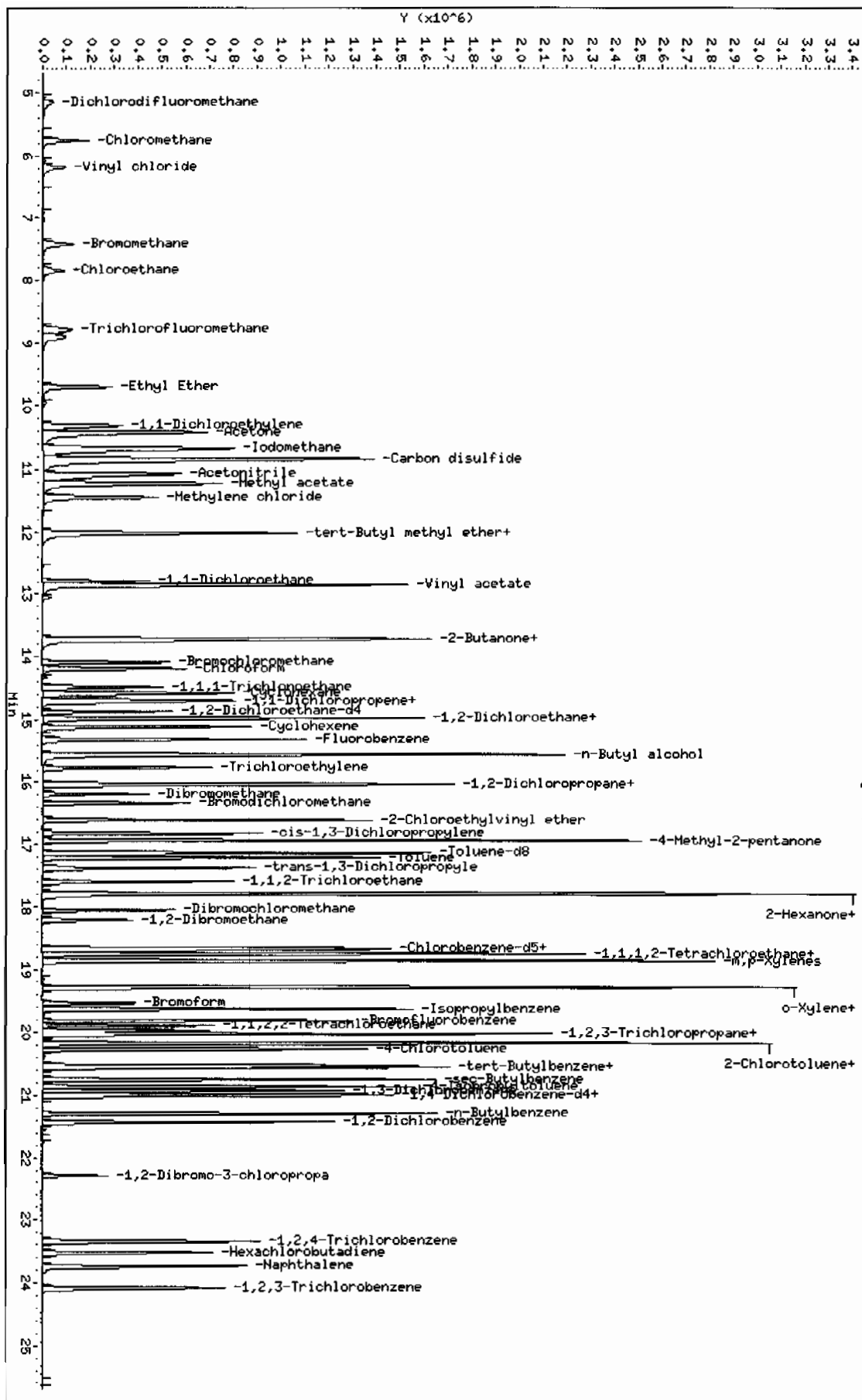
Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	==	=====	=====	=====	=====	=====
22 Methylene chloride	86	11.449	11.449	(0.747)	202394	50.0000	49.5
19 Carbon disulfide	76	10.840	10.840	(0.708)	3722112	250.000	228
24 tert-Butyl methyl ether	73	12.017	12.017	(0.785)	822986	50.0000	46.3
25 trans-1,2-Dichloroethylene	61	12.027	12.027	(0.785)	451338	50.0000	45.6
26 Vinyl acetate	43	12.860	12.860	(0.840)	3096336	250.000	186
28 1,1-Dichloroethane	63	12.799	12.799	(0.836)	610066	50.0000	46.8
31 2-Butanone	43	13.723	13.723	(0.896)	1711236	250.000	217
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	506216	50.0000	45.4
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	250607	50.0000	50.6
38 Chloroform	83	14.190	14.190	(0.926)	506202	50.0000	45.2
37 Bromochloromethane	49	14.088	14.088	(0.920)	382090	50.0000	46.8
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	374529	50.0000	44.9
43 Cyclohexane	56	14.586	14.586	(0.952)	512388	50.0000	43.4
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	347801	50.0000	43.7
52 n-Butyl alcohol	56	15.560	15.560	(1.016)	1459988	5000.00	5180
45 Carbon tetrachloride	117	14.728	14.728	(0.962)	300483	50.0000	44.4
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	443321	50.0000	48.2
47 1,2-Dichloroethane	62	14.982	14.982	(0.978)	504344	50.0000	46.9
48 Benzene	78	14.982	14.982	(0.978)	1022331	50.0000	43.6
50 Cyclohexene	67	15.124	15.124	(0.987)	509543	50.0000	44.3
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	1004230	50.0000	
53 Trichloroethylene	95	15.763	15.763	(1.029)	271125	50.0000	46.6
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	339994	50.0000	45.6
55 Methylcyclohexane	83	16.027	16.027	(1.046)	419866	50.0000	44.0
59 Bromodichloromethane	83	16.332	16.332	(1.066)	418860	50.0000	45.4
58 Dibromomethane	93	16.180	16.180	(1.056)	202445	50.0000	48.0
61 2-Chloroethylvinyl ether	63	16.606	16.606	(1.084)	653779	250.000	242
63 4-Methyl-2-pentanone	58	16.941	16.941	(0.908)	801666	250.000	239
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	503103	50.0000	44.6
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1106647	50.0000	53.0
65 Toluene	92	17.215	17.215	(0.922)	618464	50.0000	49.0
67 trans-1,3-Dichloropropylene	75	17.388	17.388	(0.931)	473325	50.0000	51.9
68 1,1,2-Trichloroethane	83	17.611	17.611	(0.943)	236743	50.0000	49.4
69 2-Hexanone	43	17.794	17.794	(0.953)	1896221	250.000	194
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	465048	50.0000	47.3
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	161969	50.0000	44.5
72 Dibromochloromethane	129	18.058	18.058	(0.967)	294144	50.0000	50.0
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	281406	50.0000	49.6
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	708184	50.0000	
76 Chlorobenzene	112	18.697	18.697	(1.002)	637239	50.0000	48.4
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	247746	50.0000	50.8
78 Ethylbenzene	91	18.768	18.768	(1.005)	1102329	50.0000	44.6
79 m,p-Xylenes	106	18.870	18.870	(1.011)	850413	100.000	94.7
80 o-Xylene	106	19.286	19.286	(1.033)	464621	50.0000	48.7
81 Styrene	104	19.286	19.286	(1.033)	759353	50.0000	48.0
82 Bromoform	173	19.540	19.540	(0.931)	198312	50.0000	53.3
83 Isopropylbenzene	105	19.631	19.631	(0.935)	1056998	50.0000	49.3

Compounds	QUANT SIG	AMOUNTS					
		CAL-AMT	ON-COL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
=====	=====	==	=====	=====	=====	=====	.. =====
87 1,1,2,2-Tetrachloroethane	83	19.885	19.885	(0.947)	378625	50.0000	51.0
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	489451	50.0000	53.9
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	88518	50.0000	49.3
90 Bromobenzene	156	20.017	20.017	(0.954)	269006	50.0000	49.3
91 n-Propylbenzene	91	20.027	20.027	(0.954)	1298723	50.0000	47.0
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	940905	50.0000	47.7
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	914448	50.0000	50.5
94 4-Chlorotoluene	91	20.271	20.271	(0.966)	876509	50.0000	49.0
95 tert-Butylbenzene	119	20.524	20.524	(0.978)	835201	50.0000	50.0
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	948915	50.0000	50.1
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	1170076	50.0000	49.6
99 4-Isopropyltoluene	119	20.860	20.860	(0.994)	889881	50.0000	50.0
100 1,3-Dichlorobenzene	146	20.931	20.931	(0.997)	496491	50.0000	47.4
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991	(1.000)	348392	50.0000	
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	499526	50.0000	50.0
104 n-Butylbenzene	91	21.296	21.296	(1.014)	999190	50.0000	50.6
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	513854	50.0000	49.2
107 1,2-Dibromo-3-chloropropane	157	22.291	22.291	(1.062)	74340	50.0000	56.9
108 1,2,4-Trichlorobenzene	180	23.357	23.357	(1.113)	328067	50.0000	49.0
109 Hexachlorobutadiene	225	23.529	23.529	(1.121)	170727	50.0000	47.7
110 Naphthalene	128	23.743	23.743	(1.131)	887498	50.0000	52.4
111 1,2,3-Trichlorobenzene	180	24.098	24.098	(1.148)	309593	50.0000	50.7

Data File: /chem/V007.1/021107/79424.d
 Date : 11-FEB-2010 22:10
 Client ID: VSTD050
 Sample Info: 147VH00211-061BFB/CV111V06F111
 Purge Volume: 5.0
 Column phase: DB-624

Instrument: V007.1
 Operator: AXD1
 Column diameter: 0.25

/chem/V007.1/021107/79424.d



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 11-FEB-2010 23:57
Lab File ID: 7y427.d Init. Cal. Date(s): 02-FEB-2010 03-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:19 01:00
Lab Sample ID: W7VM100211-09 Quant Type: ISTD
Method: /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
147 Chlorotrifluoroethylene	0.14609	0.06605	0.06605	0.010	-54.78652	30.00000	Averaged <-
148 2-Chloro-1,1,1-trifluoroeth	0.26499	0.20014	0.20014	0.010	-24.47259	30.00000	Averaged
11 Acrolein	0.07592	0.06530	0.06530	0.001	-13.99145	30.00000	Averaged
12 Trichlorotrifluoroethane	0.09966	0.08652	0.08652	0.010	-13.18434	30.00000	Averaged
15 Isopropyl Alcohol	0.03202	0.03599	0.03599	0.010	12.42744	40.00000	Averaged
20 Allyl chloride	0.53829	0.42510	0.42510	0.010	-21.02747	30.00000	Averaged
21 tert-Butyl Alcohol	0.04774	0.05127	0.05127	0.001	7.39983	40.00000	Averaged
23 Acrylonitrile	0.14520	0.13100	0.13100	0.010	-9.77930	30.00000	Averaged
27 Isopropyl ether	1.43819	1.19825	1.19825	0.010	-16.68354	30.00000	Averaged
29 2-Chloro-1,3-butadiene	0.47612	0.40619	0.40619	0.010	-14.68730	30.00000	Averaged
30 Ethyl tert-butyl ether	0.91101	0.87849	0.87849	0.010	-3.56957	30.00000	Averaged
35 Propionitrile	0.05689	0.05161	0.05161	0.010	-9.28438	30.00000	Averaged
32 Ethyl acetate	0.42139	0.33322	0.33322	0.010	-20.92186	40.00000	Averaged
36 Methacrylonitrile	0.26359	0.21330	0.21330	0.010	-19.07933	30.00000	Averaged
39 Tetrahydrofuran	0.34644	0.35590	0.35590	0.010	2.73154	30.00000	Averaged
42 Isobutyl alcohol	0.01805	0.01579	0.01579	0.005	-12.53168	40.00000	Averaged
49 Methyl tert-amyl ether	0.67547	0.68476	0.68476	0.010	1.37570	30.00000	Averaged
54 Methyl methacrylate	0.23233	0.19786	0.19786	0.010	-14.83676	30.00000	Averaged
66 Ethyl methacrylate	0.58890	0.52400	0.52400	0.010	-11.02079	30.00000	Averaged
74 1-Chlorohexane	0.37201	0.32114	0.32114	0.010	-13.67576	30.00000	Averaged
57 1,4-Dioxane	0.00322	0.00321	0.00321	0.001	-0.23551	40.00000	Averaged
60 2-Nitropropane	0.15381	0.14626	0.14626	0.010	-4.90587	30.00000	Averaged
84 cis-1,4-Dichloro-2-butene	0.38070	0.41469	0.41469	0.010	8.92824	30.00000	Averaged
85 Cyclohexanone	0.10308	0.03168	0.03168	0.010	-69.27013	40.00000	Averaged <-
88 trans-1,4-Dichloro-2-butene	0.32871	0.37437	0.37437	0.010	13.89038	30.00000	Averaged
97 Pentachloroethane	0.27077	0.30284	0.30284	0.010	11.84210	30.00000	Averaged
103 Benzyl chloride	1.30409	1.29385	1.29385	0.010	-0.78527	30.00000	Averaged
106 bis(2-Chloroisopropyl)ether	0.64816	0.64870	0.64870	0.010	0.08389	30.00000	Averaged
\$ 46 1,2-Dichloroethane-d4	0.45796	0.44804	0.44804	0.010	-2.16823	30.00000	Averaged
\$ 64 Toluene-d8	1.47417	1.68792	1.68792	0.010	14.49964	30.00000	Averaged
\$ 86 Bromofluorobenzene	1.30212	1.43240	1.43240	0.010	10.00562	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 11-FEB-2010 23:57
Lab File ID: 7y427.d Init. Cal. Date(s): 02-FEB-2010 03-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:19 01:00
Lab Sample ID: W7VM100211-09 Quant Type: ISTD
Method: /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

Average %D / Drift Results.	
=====	
Calculated Average %D/Drift =	6.84633
Maximun Average %D/Drift =	20.00000
* Passed Average %D/Drift Test.	

Data File: /chem/VOA7.i/021110v7/7y427.d
Report Date: 12-Feb-2010 09:51

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021110v7/7y427.d

Lab Smp Id: W7VM100211-09

Client Smp ID: VSTD250S

Inj Date : 11-FEB-2010 23:57

Operator : AX01

Inst ID: VOA7.i

Smp Info : |W7VM100211-09|SHORT/SLCS|1|VOAF|1|

Misc Info : GEL 5mL N/A UVM100118-08B/UVM100125-08B

Comment :

Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

Meth Date : 12-Feb-2010 09:36 ale01592 Quant Type: ISTD

Cal Date : 03-FEB-2010 00:25

Cal File: 7x216.d

Als bottle: 27

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: CALsubS+SS.sub

Target Version: 3.50

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	sample purged

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/l)	ON-COL (ug/l)
147 Chlorotrifluoroethylene	116	5.029	5.029	(0.328)	200024	150.000	67.8
148 2-Chloro-1,1,1-trifluoroethane	118	6.604	6.604	(0.431)	606092	150.000	113
11 Acrolein	56	10.017	10.017	(0.654)	329571	250.000	215
12 Trichlorotrifluoroethane	85	10.373	10.373	(0.677)	436677	250.000	217
15 Isopropyl Alcohol	45	10.779	10.779	(0.704)	1816719	2500.00	2810
20 Allyl chloride	41	11.185	11.185	(0.730)	2145567	250.000	197
21 tert-Butyl Alcohol	59	11.662	11.662	(0.761)	2587622	2500.00	2680
23 Acrylonitrile	53	11.926	11.926	(0.779)	661173	250.000	226
27 Isopropyl ether	45	12.900	12.900	(0.842)	1209547	50.0000	41.6
29 2-Chloro-1,3-butadiene	53	12.961	12.961	(0.846)	410022	50.0000	42.6
30 Ethyl tert-butyl ether	59	13.489	13.489	(0.881)	886774	50.0000	48.2
35 Propionitrile	54	13.804	13.804	(0.901)	260487	250.000	227
32 Ethyl acetate	43	13.804	13.804	(0.901)	1681831	250.000	198
36 Methacrylonitrile	41	14.037	14.037	(0.916)	1076557	250.000	202
39 Tetrahydrofuran	42	14.159	14.159	(0.675)	604748	250.000	257
42 Isobutyl alcohol	41	14.748	14.748	(0.963)	796967	2500.00	2190

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	==	=====	=====	=====	=====	=====
49 Methyl tert-amyl ether	73	15.073	15.073	(0.984)	691220	50.0000	50.7
54 Methyl methacrylate	69	16.078	16.078	(1.050)	998633	250.000	213
66 Ethyl methacrylate	69	17.408	17.408	(0.933)	1795043	250.000	222
74 1-Chlorohexane	55	18.575	18.575	(1.213)	324164	50.0000	43.2
57 1,4-Dioxane	88	16.159	16.159	(1.055)	161888	2500.00	2490
60 2-Nitropropane	43	16.555	16.555	(1.081)	738198	250.000	238
84 cis-1,4-Dichloro-2-butene	53	19.662	19.662	(0.937)	704641	250.000	272
85 Cyclohexanone	55	19.773	19.773	(1.059)	542580	1250.00	384
88 trans-1,4-Dichloro-2-butene	53	19.926	19.926	(0.949)	636134	250.000	285
97 Pentachloroethane	167	20.596	20.596	(0.981)	514584	250.000	280 (A)
103 Benzyl chloride	91	21.123	21.123	(1.006)	2198509	250.000	248
106 bis(2-Chloroisopropyl)ether	45	21.509	21.509	(1.025)	1102276	250.000	250
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	1009429	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	685134	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991	(1.000)	339839	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	452260	50.0000	48.9
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1156450	50.0000	57.2
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	486787	50.0000	55.0

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/V007.i/021107/7y427.d

Date: 11-FEB-2010 23:57

Client ID: VSTD2005

Sample Info: 147VH100211-091SHORT/SLCS11V00711

Purge Volume: 5.0

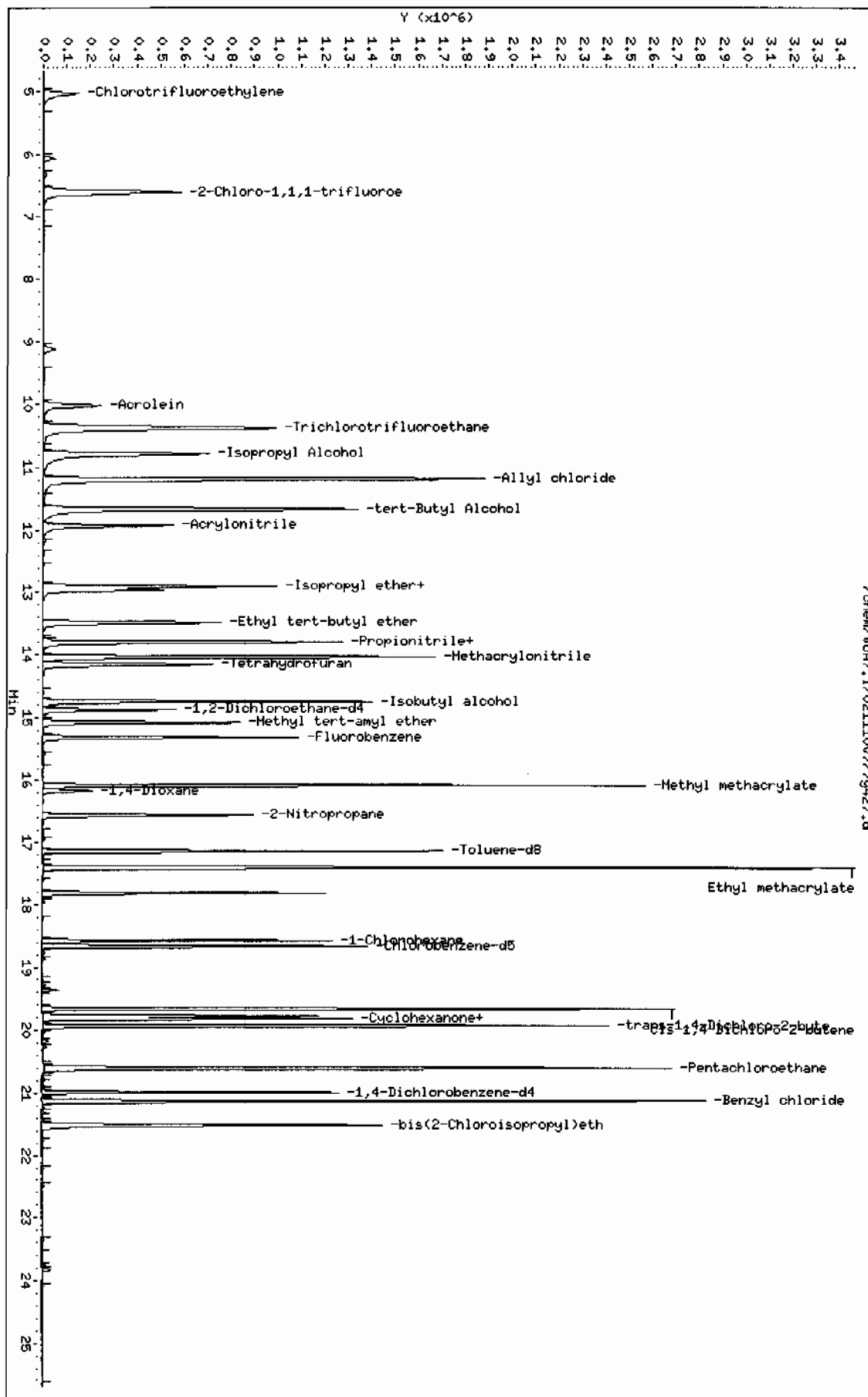
Column phase: DB-624

Instrument: V007.i

Operator: AX01

Column diameter: 0.25

/chem/V007.i/021107/7y427.d



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 12-FEB-2010 12:35
Lab File ID: 7y502.d Init. Cal. Date(s): 02-FEB-2010 03-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:19 01:00
Lab Sample ID: W7VM100212-01 Quant Type: ISTD
Method: /chem/VOA7.i/021210v7/VOA7-8260B-020210.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
IM 2 Xylenes (total)	0.64726	0.61186	0.61186	0.050	-5.46835	30.00000	Averaged
IM 3 1,2-Dichloroethylene (total)	0.52390	0.46023	0.46023	0.050	-12.15251	30.00000	Averaged
IM 1 1,3-Dichloropropylene	0.53154	0.45807	0.45807	0.050	-13.82225	30.00000	Averaged
4 Dichlorodifluoromethane	0.21348	0.13652	0.13652	0.050	-36.04920	30.00000	Averaged <-
5 Chloromethane	0.42234	0.36151	0.36151	0.100	-14.40151	30.00000	Averaged spcc
6 Vinyl chloride	0.30729	0.28971	0.28971	0.050	-5.72145	20.00000	Averaged ccc
7 Bromomethane	0.21662	0.20182	0.20182	0.050	-6.83163	30.00000	Averaged
8 Chloroethane	0.23185	0.19057	0.19057	0.010	-17.80355	30.00000	Averaged
9 Trichlorofluoromethane	0.39265	0.30814	0.30814	0.050	-21.52254	30.00000	Averaged
10 Ethyl Ether	0.33841	0.27204	0.27204	0.001	-19.61374	30.00000	Averaged
13 Acetone	0.36716	0.33165	0.33165	0.050	-9.67206	40.00000	Averaged
17 Acetonitrile	0.06040	0.06404	0.06404	0.010	6.01454	30.00000	Averaged
14 1,1-Dichloroethylene	0.24379	0.21058	0.21058	0.050	-13.62143	20.00000	Averaged ccc
18 Methyl acetate	0.32677	0.29850	0.29850	0.010	-8.65358	40.00000	Averaged
16 Iodomethane	0.43238	0.36556	0.36556	0.050	-15.45492	30.00000	Averaged
22 Methylene chloride	44.40123	50.00000	0.18127	0.050	-11.19754	30.00000	Linear
19 Carbon disulfide	0.81272	0.70649	0.70649	0.050	-13.07045	30.00000	Averaged
24 tert-Butyl methyl ether	0.88512	0.74896	0.74896	0.050	-15.38299	30.00000	Averaged
25 trans-1,2-Dichloroethylene	0.49264	0.42947	0.42947	0.050	-12.82314	30.00000	Averaged
26 Vinyl acetate	0.82677	0.64664	0.64664	0.010	-21.78742	40.00000	Averaged
28 1,1-Dichloroethane	0.64941	0.57162	0.57162	0.100	-11.97770	30.00000	Averaged spcc
31 2-Butanone	0.39186	0.36146	0.36146	0.030	-7.75736	40.00000	Averaged
33 cis-1,2-Dichloroethylene	0.55515	0.49099	0.49099	0.050	-11.55740	30.00000	Averaged
34 2,2-Dichloropropane	0.24668	0.25024	0.25024	0.050	1.44583	30.00000	Averaged
38 Chloroform	0.55795	0.46474	0.46474	0.010	-16.70559	20.00000	Averaged ccc
37 Bromochloromethane	0.40653	0.35939	0.35939	0.010	-11.59401	30.00000	Averaged
41 1,1,1-Trichloroethane	0.41554	0.35546	0.35546	0.010	-14.45753	30.00000	Averaged
43 Cyclohexane	0.58725	0.51499	0.51499	0.010	-12.30395	30.00000	Averaged
44 1,1-Dichloropropene	0.39604	0.33860	0.33860	0.010	-14.50414	30.00000	Averaged
52 n-Butyl alcohol	0.01403	0.01463	0.01463	0.001	4.27087	40.00000	Averaged
45 Carbon tetrachloride	0.33726	0.28645	0.28645	0.010	-15.06406	30.00000	Averaged
\$ 46 1,2-Dichloroethane-d4	0.45796	0.42854	0.42854	0.010	-6.42465	30.00000	Averaged
47 1,2-Dichloroethane	0.53534	0.47137	0.47137	0.010	-11.94931	30.00000	Averaged
48 Benzene	1.16658	0.97237	0.97237	0.010	-16.64791	30.00000	Averaged
50 Cyclohexene	0.57250	0.50743	0.50743	0.010	-11.36613	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 12-FEB-2010 12:35
Lab File ID: 7y502.d Init. Cal. Date(s): 02-FEB-2010 03-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:19 01:00
Lab Sample ID: W7VM100212-01 Quant Type: ISTD
Method: /chem/VOA7.i/021210v7/VOA7-8260B-020210.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
53 Trichloroethylene	0.28975	0.25448	0.25448	0.010	-12.17281	30.00000	Averaged
56 1,2-Dichloropropane	0.37098	0.32394	0.32394	0.010	-12.68185	20.00000	Averaged ccc
55 Methylcyclohexane	0.47494	0.42638	0.42638	0.010	-10.22441	30.00000	Averaged
59 Bromodichloromethane	0.45935	0.37734	0.37734	0.010	-17.85238	30.00000	Averaged
58 Dibromomethane	0.21001	0.18616	0.18616	0.010	-11.36000	30.00000	Averaged
61 2-Chloroethylvinyl ether	0.13424	0.13012	0.13012	0.010	-3.06720	30.00000	Averaged
63 4-Methyl-2-pentanone	0.23648	0.23550	0.23550	0.010	-0.41278	40.00000	Averaged
62 cis-1,3-Dichloropropylene	0.56166	0.47536	0.47536	0.010	-15.36556	30.00000	Averaged
64 Toluene-d8	1.47417	1.53676	1.53676	0.010	4.24570	30.00000	Averaged
65 Toluene	0.89123	0.83656	0.83656	0.010	-6.13469	20.00000	Averaged ccc
67 trans-1,3-Dichloropropylene	0.64378	0.62224	0.62224	0.010	-3.34474	30.00000	Averaged
68 1,1,2-Trichloroethane	0.33858	0.31049	0.31049	0.010	-8.29701	30.00000	Averaged
69 2-Hexanone	0.69089	0.59842	0.59842	0.010	-13.38446	40.00000	Averaged
70 1,3-Dichloropropane	0.69391	0.64926	0.64926	0.010	-6.43436	30.00000	Averaged
71 Tetrachloroethylene	0.25717	0.23786	0.23786	0.010	-7.50885	30.00000	Averaged
72 Dibromochloromethane	0.41548	0.37527	0.37527	0.010	-9.67893	30.00000	Averaged
73 1,2-Dibromoethane	0.40059	0.36384	0.36384	0.010	-9.17590	30.00000	Averaged
76 Chlorobenzene	0.92940	0.85508	0.85508	0.300	-7.99685	30.00000	Averaged spcc
77 1,1,1,2-Tetrachloroethane	0.34428	0.32454	0.32454	0.010	-5.73374	30.00000	Averaged
78 Ethylbenzene	1.74621	1.52234	1.52234	0.010	-12.82081	20.00000	Averaged ccc
79 m,p-Xylenes	0.63414	0.60033	0.60033	0.010	-5.33161	30.00000	Averaged
80 o-Xylene	0.67350	0.63494	0.63494	0.010	-5.72586	30.00000	Averaged
81 Styrene	1.11623	1.04018	1.04018	0.010	-6.81249	30.00000	Averaged
82 Bromoform	0.53350	0.51060	0.51060	0.100	-4.29225	30.00000	Averaged spcc
83 Isopropylbenzene	3.07526	2.97909	2.97909	0.010	-3.12717	30.00000	Averaged
87 1,1,2,2-Tetrachloroethane	1.06618	1.04394	1.04394	0.300	-2.08604	30.00000	Averaged spcc
86 Bromofluorobenzene	1.30212	1.32244	1.32244	0.010	1.56057	30.00000	Averaged
89 1,2,3-Trichloropropane	0.25749	0.24099	0.24099	0.010	-6.41039	30.00000	Averaged
90 Bromobenzene	0.78362	0.72225	0.72225	0.010	-7.83085	30.00000	Averaged
91 n-Propylbenzene	3.96496	3.78365	3.78365	0.010	-4.57293	30.00000	Averaged
93 2-Chlorotoluene	2.82888	2.69428	2.69428	0.010	-4.75812	30.00000	Averaged
92 1,3,5-Trimethylbenzene	2.59904	2.64153	2.64153	0.010	1.63506	30.00000	Averaged
94 4-Chlorotoluene	2.56805	2.41483	2.41483	0.010	-5.96642	30.00000	Averaged
95 tert-Butylbenzene	2.39671	2.35721	2.35721	0.010	-1.64808	30.00000	Averaged
96 1,2,4-Trimethylbenzene	2.71945	2.62361	2.62361	0.010	-3.52431	30.00000	Averaged
98 sec-Butylbenzene	3.38303	3.37824	3.37824	0.010	-0.14186	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 12-FEB-2010 12:35
Lab File ID: 7y502.d Init. Cal. Date(s): 02-FEB-2010 03-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:19 01:00
Lab Sample ID: W7VM100212-01 Quant Type: ISTD
Method: /chem/VOA7.i/021210v7/VOA7-8260B-020210.m

COMPOUND	RRF / AMOUNT	RF50	CCAL	MIN	MAX	CURVE TYPE	
			RRF50	RRF	%D / %DRIFT	%D / %DRIFT	
99 4-Isopropyltoluene	2.55203	2.54277	2.54277	0.010	-0.36297	30.00000	Averaged
100 1,3-Dichlorobenzene	1.50231	1.38432	1.38432	0.010	-7.85421	30.00000	Averaged
102 1,4-Dichlorobenzene	1.43435	1.37364	1.37364	0.010	-4.23221	30.00000	Averaged
104 n-Butylbenzene	2.83330	2.90503	2.90503	0.010	2.53169	30.00000	Averaged
105 1,2-Dichlorobenzene	1.49818	1.40427	1.40427	0.010	-6.26833	30.00000	Averaged
107 1,2-Dibromo-3-chloropropane	0.18744	0.18625	0.18625	0.010	-0.63515	30.00000	Averaged
108 1,2,4-Trichlorobenzene	0.96100	0.91633	0.91633	0.010	-4.64792	30.00000	Averaged
109 Hexachlorobutadiene	0.51366	0.48969	0.48969	0.010	-4.66799	30.00000	Averaged
110 Naphthalene	2.43299	2.35524	2.35524	0.010	-3.19585	30.00000	Averaged
111 1,2,3-Trichlorobenzene	0.87613	0.84472	0.84472	0.010	-3.58608	30.00000	Averaged

Average %D / Drift Results.
=====

Calculated Average %D/Drift =	9.01717
Maximum Average %D/Drift =	20.00000
* Passed Average %D/Drift Test.	

=====

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021210v7/7y502.d

Lab Smp Id: W7VM100212-01

Client Smp ID: VSTD050

Inj Date : 12-FEB-2010 12:35

Operator : AX01

Inst ID: VOA7.i

Smp Info : |W7VM100212-01|BFB/CCV|1|VOAF|1|

Misc Info : GEL 5mL N/A UVM100106-07C/UVM100202-07B

Comment :

Method : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m

Meth Date : 22-Feb-2010 06:51 ale01592

Quant Type: ISTD

Cal Date : 03-FEB-2010 00:25

Cal File: 7x216.d

Als bottle: 2

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: CALsubL+.sub

Target Version: 3.50

Processing Host: prdsrv07

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	sample purged

Cpnd Variable Local Compound Variable

		QUANT SIG				AMOUNTS	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)
							ON-COL (ug/l)
M 2 Xylenes (total)		106				1199023	150.000
M 3 1,2-Dichloroethylene (total)		96				848767	100.000
M 1 1,3-Dichloropropylene		75				844787	100.000
4 Dichlorodifluoromethane		85	5.148	5.148	(0.336)	125891	50.0000
5 Chloromethane		50	5.757	5.757	(0.376)	333356	50.0000
6 Vinyl chloride		62	6.188	6.188	(0.404)	267147	50.0000
7 Bromomethane		94	7.419	7.419	(0.484)	186104	50.0000
8 Chloroethane		64	7.835	7.835	(0.512)	175729	50.0000
9 Trichlorofluoromethane		101	8.789	8.789	(0.574)	284141	50.0000
10 Ethyl Ether		59	9.693	9.693	(0.633)	250850	50.0000
13 Acetone		43	10.413	10.413	(0.680)	1529080	250.000
17 Acetonitrile		41	11.073	11.073	(0.723)	1180969	1000.00
14 1,1-Dichloroethylene		96	10.302	10.302	(0.673)	194178	50.0000
18 Methyl acetate		43	11.215	11.215	(0.732)	1376239	250.000
16 Iodomethane		142	10.667	10.667	(0.696)	1685429	250.000

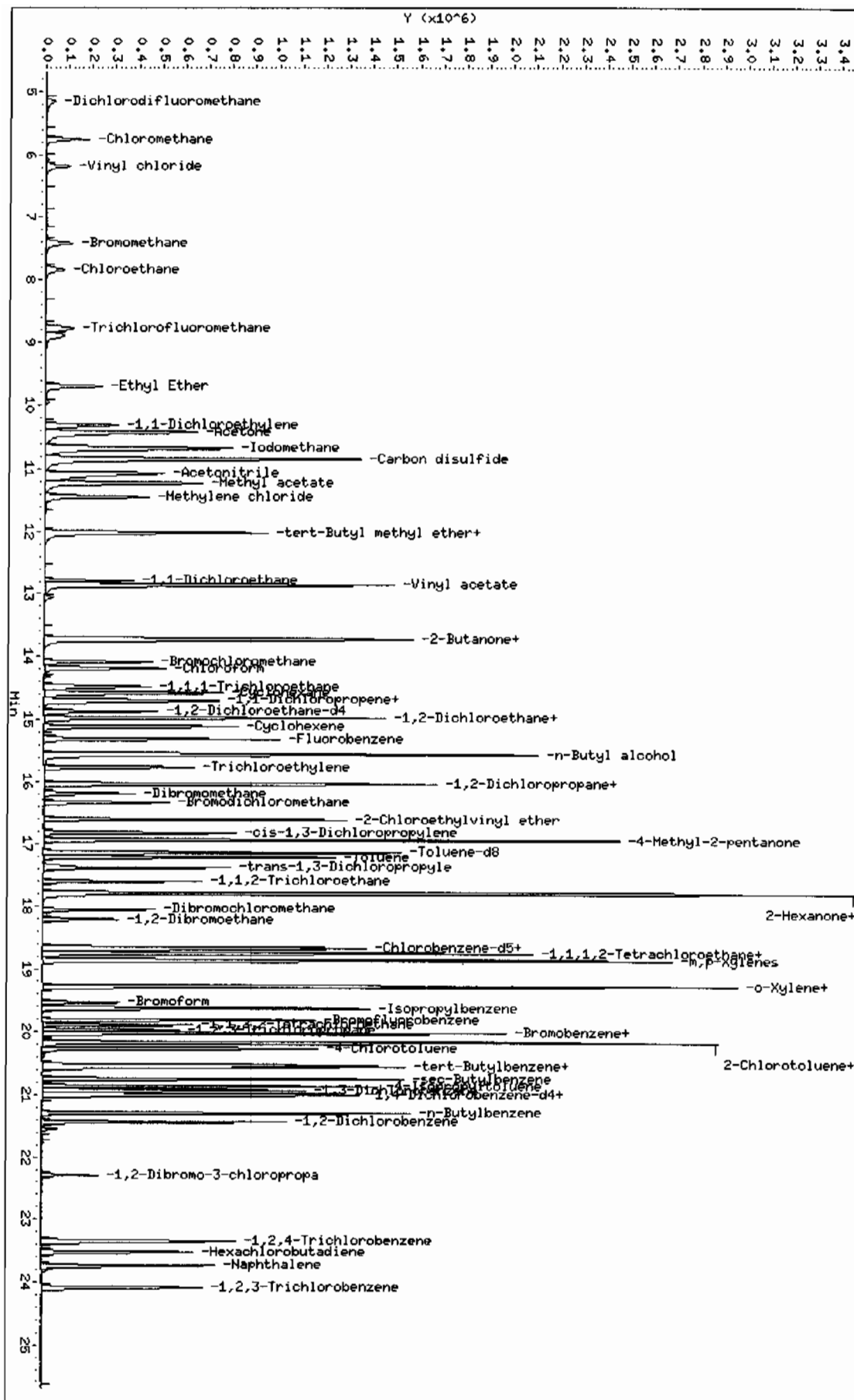
Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/l)	ON-COL (ug/l)
22 Methylene chloride	86	11.439	11.439	(0.747)	167148		50.0000	44.4
19 Carbon disulfide	76	10.840	10.840	(0.708)	3257314		250.000	217
24 tert-Butyl methyl ether	73	12.017	12.017	(0.785)	690625		50.0000	42.3
25 trans-1,2-Dichloroethylene	61	12.027	12.027	(0.785)	396019		50.0000	43.6
26 Vinyl acetate	43	12.860	12.860	(0.840)	2981361		250.000	196
28 1,1-Dichloroethane	63	12.799	12.799	(0.836)	527102		50.0000	44.0
31 2-Butanone	43	13.723	13.723	(0.896)	1666535		250.000	231
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	452748		50.0000	44.2
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	230751		50.0000	50.7
38 Chloroform	83	14.190	14.190	(0.926)	428543		50.0000	41.6
37 Bromochloromethane	49	14.088	14.088	(0.920)	331402		50.0000	44.2
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	327775		50.0000	42.8
43 Cyclohexane	56	14.586	14.586	(0.952)	474883		50.0000	43.8
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	312224		50.0000	42.7
52 n-Butyl alcohol	56	15.560	15.560	(1.016)	1348856		5000.00	5210
45 Carbon tetrachloride	117	14.728	14.728	(0.962)	264140		50.0000	42.5
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	395164		50.0000	46.8
47 1,2-Dichloroethane	62	14.982	14.982	(0.978)	434657		50.0000	44.0
48 Benzene	78	14.982	14.982	(0.978)	896630		50.0000	41.7
50 Cyclohexene	67	15.114	15.114	(0.987)	467906		50.0000	44.3
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	922112		50.0000	
53 Trichloroethylene	95	15.763	15.763	(1.029)	234660		50.0000	43.9
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	298706		50.0000	43.6
55 Methylcyclohexane	83	16.027	16.027	(1.046)	393174		50.0000	44.9
59 Bromodichloromethane	83	16.332	16.332	(1.066)	347951		50.0000	41.1
58 Dibromomethane	93	16.180	16.180	(1.056)	171657		50.0000	44.3
61 2-Chloroethylvinyl ether	63	16.606	16.606	(1.084)	599948		250.000	242
63 4-Methyl-2-pentanone	58	16.941	16.941	(0.908)	769157		250.000	249
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	438331		50.0000	42.3
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1003823		50.0000	52.1
65 Toluene	92	17.215	17.215	(0.922)	546447		50.0000	46.9
67 trans-1,3-Dichloropropylene	75	17.388	17.388	(0.931)	406456		50.0000	48.3
68 1,1,2-Trichloroethane	83	17.611	17.611	(0.943)	202813		50.0000	45.8
69 2-Hexanone	43	17.794	17.794	(0.953)	1954452		250.000	216
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	424103		50.0000	46.8
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	155370		50.0000	46.2
72 Dibromochloromethane	129	18.058	18.058	(0.967)	245130		50.0000	45.2
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	237661		50.0000	45.4
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	653209		50.0000	
76 Chlorobenzene	112	18.697	18.697	(1.002)	558543		50.0000	46.0
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	211995		50.0000	47.1
78 Ethylbenzene	91	18.758	18.758	(1.005)	994403		50.0000	43.6
79 m,p-Xylenes	106	18.870	18.870	(1.011)	784276		100.000	94.7
80 o-Xylene	106	19.286	19.286	(1.033)	414747		50.0000	47.1
81 Styrene	104	19.286	19.286	(1.033)	679457		50.0000	46.6
82 Bromoform	173	19.540	19.540	(0.931)	161522		50.0000	47.8
83 Isopropylbenzene	105	19.631	19.631	(0.935)	942391		50.0000	48.4

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
87 1,1,2,2-Tetrachloroethane	83	19.885	19.885	(0.947)	330236	50.0000	49.0
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	418334	50.0000	50.8
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	76232	50.0000	46.8
90 Bromobenzene	156	20.017	20.017	(0.954)	228474	50.0000	46.1
91 n-Propylbenzene	91	20.027	20.027	(0.954)	1196900	50.0000	47.7
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	852294	50.0000	47.6
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	835609	50.0000	50.8
94 4-Chlorotoluene	91	20.271	20.271	(0.966)	763894	50.0000	47.0
95 tert-Butylbenzene	119	20.525	20.525	(0.978)	745667	50.0000	49.2
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	829939	50.0000	48.2
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	1068654	50.0000	49.9
99 4-Isopropyltoluene	119	20.860	20.860	(0.994)	804367	50.0000	49.8
100 1,3-Dichlorobenzene	146	20.931	20.931	(0.997)	437908	50.0000	46.1
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	316335	50.0000	
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	434531	50.0000	47.9
104 n-Butylbenzene	91	21.296	21.296	(1.014)	918962	50.0000	51.3
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	444220	50.0000	46.9
107 1,2-Dibromo-3-chloropropane	157	22.291	22.291	(1.062)	58916	50.0000	49.7
108 1,2,4-Trichlorobenzene	180	23.357	23.357	(1.113)	289867	50.0000	47.7
109 Hexachlorobutadiene	225	23.530	23.530	(1.121)	154905	50.0000	47.7
110 Naphthalene	128	23.743	23.743	(1.131)	745044	50.0000	48.4
111 1,2,3-Trichlorobenzene	180	24.098	24.098	(1.148)	267213	50.0000	48.2

Data File: /chem/V007.1/021210v7/79502.d
 Date : 12-FEB-2010 12:35
 Client ID: VSTD050
 Sample Info: /M7V/HL00212-01/BFB/DCV/11/V007.1/1
 Purge Volume: 5.0
 Column Phase: DB-624

Instrument: V007.1
 Operator: RXD1
 Column diameter: 0.25

/chem/V007.1/021210v7/79502.d



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 12-FEB-2010 14:17
Lab File ID: 7y505.d Init. Cal. Date(s): 02-FEB-2010 03-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:19 01:00
Lab Sample ID: W7VM100212-04 Quant Type: ISTD
Method: /chem/VOA7.i/021210v7/VOA7-8260B-020210.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
147 Chlorotrifluoroethylene	0.14609	0.05407	0.05407	0.010	-62.98682	30.00000	Averaged <-
148 2-Chloro-1,1,1-trifluoroeth	0.26499	0.17928	0.17928	0.010	-32.34406	30.00000	Averaged <-
11 Acrolein	0.07592	0.06396	0.06396	0.001	-15.75991	30.00000	Averaged
12 Trichlorotrifluoroethane	0.09966	0.08401	0.08401	0.010	-15.70156	30.00000	Averaged
15 Isopropyl Alcohol	0.03202	0.03535	0.03535	0.010	10.42746	40.00000	Averaged
20 Allyl chloride	0.53829	0.41944	0.41944	0.010	-22.08002	30.00000	Averaged
21 tert-Butyl Alcohol	0.04774	0.05091	0.05091	0.001	6.65203	40.00000	Averaged
23 Acrylonitrile	0.14520	0.12275	0.12275	0.010	-15.46292	30.00000	Averaged
27 Isopropyl ether	1.43819	1.13517	1.13517	0.010	-21.06962	30.00000	Averaged
29 2-Chloro-1,3-butadiene	0.47612	0.38609	0.38609	0.010	-18.90873	30.00000	Averaged
30 Ethyl tert-butyl ether	0.91101	0.82662	0.82662	0.010	-9.26342	30.00000	Averaged
35 Propionitrile	0.05689	0.04928	0.04928	0.010	-13.38963	30.00000	Averaged
32 Ethyl acetate	0.42139	0.32721	0.32721	0.010	-22.34958	40.00000	Averaged
36 Methacrylonitrile	0.26359	0.21099	0.21099	0.010	-19.95526	30.00000	Averaged
39 Tetrahydrofuran	0.34644	0.34899	0.34899	0.010	0.73506	30.00000	Averaged
42 Isobutyl alcohol	0.01805	0.01645	0.01645	0.005	-8.88008	40.00000	Averaged
49 Methyl tert-amyl ether	0.67547	0.66159	0.66159	0.010	-2.05511	30.00000	Averaged
54 Methyl methacrylate	0.23233	0.19533	0.19533	0.010	-15.92679	30.00000	Averaged
66 Ethyl methacrylate	0.58890	0.52420	0.52420	0.010	-10.98555	30.00000	Averaged
74 1-Chlorohexane	0.37201	0.31163	0.31163	0.010	-16.22996	30.00000	Averaged
57 1,4-Dioxane	0.00322	0.00317	0.00317	0.001	-1.51873	40.00000	Averaged
60 2-Nitropropane	0.15381	0.14085	0.14085	0.010	-8.42597	30.00000	Averaged
84 cis-1,4-Dichloro-2-butene	0.38070	0.43002	0.43002	0.010	12.95508	30.00000	Averaged
85 Cyclohexanone	0.10308	0.03325	0.03325	0.010	-67.74928	40.00000	Averaged <-
88 trans-1,4-Dichloro-2-butene	0.32871	0.38699	0.38699	0.010	17.72935	30.00000	Averaged
97 Pentachloroethane	0.27077	0.34878	0.34878	0.010	28.80767	30.00000	Averaged
103 Benzyl chloride	1.30409	1.47430	1.47430	0.010	13.05208	30.00000	Averaged
106 bis(2-Chloroisopropyl)ether	0.64816	0.66147	0.66147	0.010	2.05391	30.00000	Averaged
\$ 46 1,2-Dichloroethane-d4	0.45796	0.44543	0.44543	0.010	-2.73672	30.00000	Averaged
\$ 64 Toluene-d8	1.47417	1.63447	1.63447	0.010	10.87437	30.00000	Averaged
\$ 86 Bromofluorobenzene	1.30212	1.33231	1.33231	0.010	2.31891	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 12-FEB-2010 14:17
Lab File ID: 7y505.d Init. Cal. Date(s): 02-FEB-2010 03-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:19 01:00
Lab Sample ID: W7VM100212-04 Quant Type: ISTD
Method: /chem/VOA7.i/021210v7/VOA7-8260B-020210.m

Average %D / Drift Results.	
=====	
Calculated Average %D/Drift =	9.01717
Maximun Average %D/Drift =	20.00000
* Passed Average %D/Drift Test.	

Data File: /chem/VOA7.i/021210v7/7y505.d
Report Date: 15-Feb-2010 12:22

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021210v7/7y505.d

Lab Smp Id: W7VM100212-04

Client Smp ID: VSTD250S

Inj Date : 12-FEB-2010 14:17

Operator : AX01

Inst ID: VOA7.i

Smp Info : |W7VM100212-04|SHORT|SLCS|1|VOAF|1|

Misc Info : GEL 5mL N/A UVM100118-08B/UVM100125-08B

Comment :

Method : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m

Meth Date : 15-Feb-2010 12:11 ale01592 Quant Type: ISTD

Cal Date : 03-FEB-2010 00:25

Cal File: 7x216.d

Als bottle: 5

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: CALsubS+SS.sub

Target Version: 3.50

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	sample purged

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG				AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)
147 Chlorotrifluoroethylene	116	5.029	5.029	(0.328)	158299	150.000
148 2-Chloro-1,1,1-trifluoroethane	118	6.604	6.604	(0.431)	524865	150.000
11 Acrolein	56	10.017	10.017	(0.654)	312057	250.000
12 Trichlorotrifluoroethane	85	10.373	10.373	(0.677)	409911	250.000
15 Isopropyl Alcohol	45	10.779	10.779	(0.704)	1725044	2500.00
20 Allyl chloride	41	11.185	11.185	(0.730)	2046550	250.000
21 tert-Butyl Alcohol	59	11.662	11.662	(0.761)	2484127	2500.00
23 Acrylonitrile	53	11.926	11.926	(0.779)	598913	250.000
27 Isopropyl ether	45	12.901	12.901	(0.842)	1107755	50.0000
29 2-Chloro-1,3-butadiene	53	12.961	12.961	(0.846)	376769	50.0000
30 Ethyl tert-butyl ether	59	13.489	13.489	(0.881)	806657	50.0000
35 Propionitrile	54	13.804	13.804	(0.901)	240426	250.000
32 Ethyl acetate	43	13.804	13.804	(0.901)	1596531	250.000
36 Methacrylonitrile	41	14.038	14.038	(0.916)	1029480	250.000
39 Tetrahydrofuran	42	14.159	14.159	(0.675)	562822	250.000
42 Isobutyl alcohol	41	14.748	14.748	(0.963)	802621	2500.00

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	==	=====	=====	=====	=====	=====
49 Methyl tert-amyl ether	73	15.073	15.073	(0.984)	645612	50.0000	49.0
54 Methyl methacrylate	69	16.078	16.078	(1.050)	953057	250.000	210
66 Ethyl methacrylate	69	17.408	17.408	(0.933)	1723342	250.000	222
74 1-Chlorohexane	55	18.575	18.575	(1.213)	304109	50.0000	41.9
57 1,4-Dioxane	88	16.159	16.159	(1.055)	154490	2500.00	2460
60 2-Nitropropane	43	16.555	16.555	(1.081)	687225	250.000	229
84 cis-1,4-Dichloro-2-butene	53	19.662	19.662	(0.937)	693510	250.000	282
85 Cyclohexanone	55	19.773	19.773	(1.059)	546471	1250.00	403
88 trans-1,4-Dichloro-2-butene	53	19.926	19.926	(0.949)	624117	250.000	294
97 Pentachloroethane	167	20.596	20.596	(0.981)	562487	250.000	322 (A)
103 Benzyl chloride	91	21.124	21.124	(1.006)	2377663	250.000	283
106 bis(2-Chloroisopropyl)ether	45	21.509	21.509	(1.025)	1066782	250.000	255
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	975851	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	657507	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	322547	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	434675	50.0000	48.6
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1074678	50.0000	55.4
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	429734	50.0000	51.2

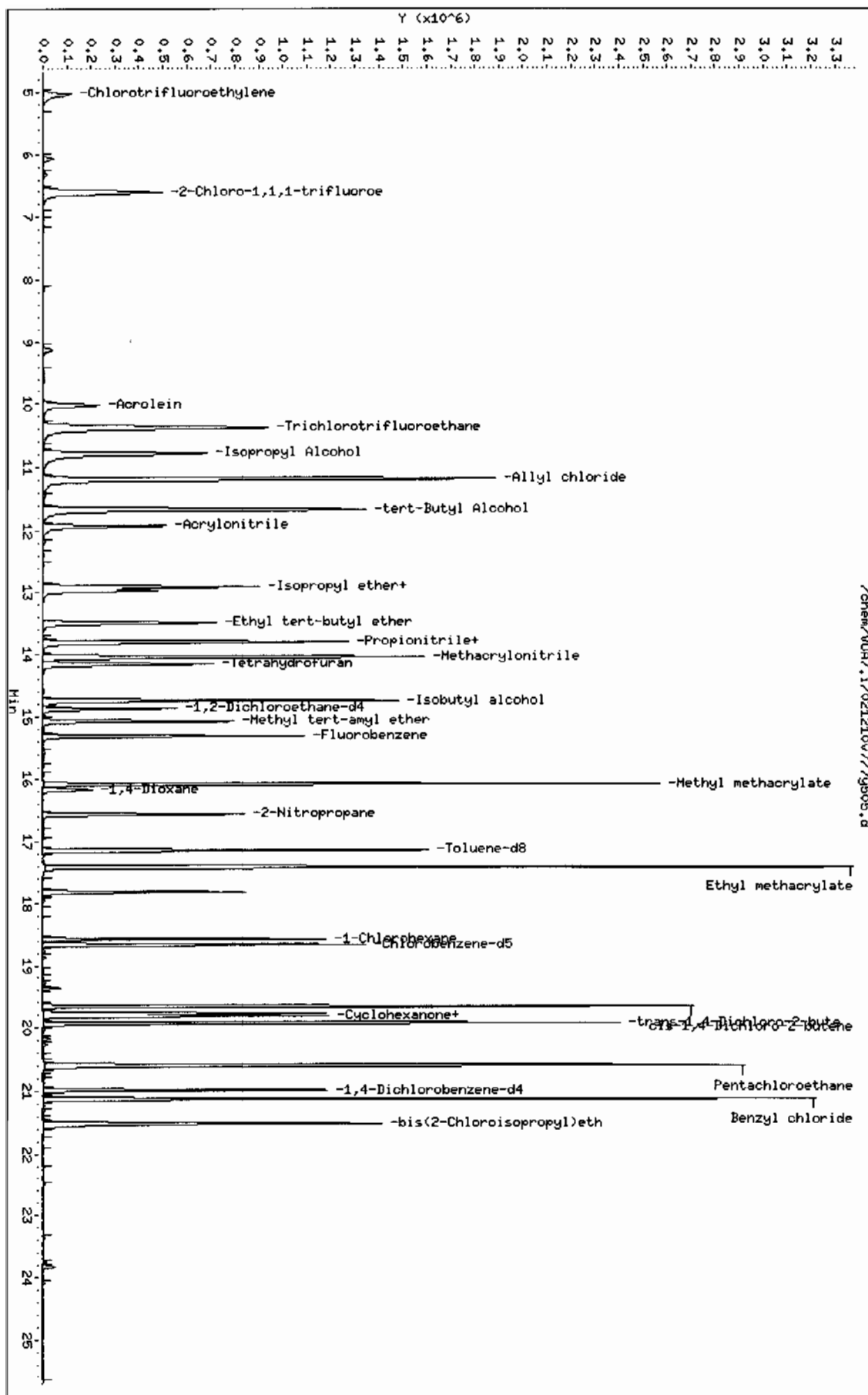
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/V0A7.i/021210v77g505.d
 Date: 12-FEB-2010 14:17
 Client ID: VSTD2505
 Sample Info: 147VH100212-04|SHORT/SLCS11|V0A7.i
 Purge Volume: 5.0
 Column phase: DB-624

Instrument: V0A7.i
 Operator: AX01
 Column diameter: 0.25

/chem/V0A7.i/021210v77g505.d



QC Data

Data File: /chem/VOA7.i/020210v7/7x201.d

Page 1

Date : 02-FEB-2010 15:44

Client ID: BFB01

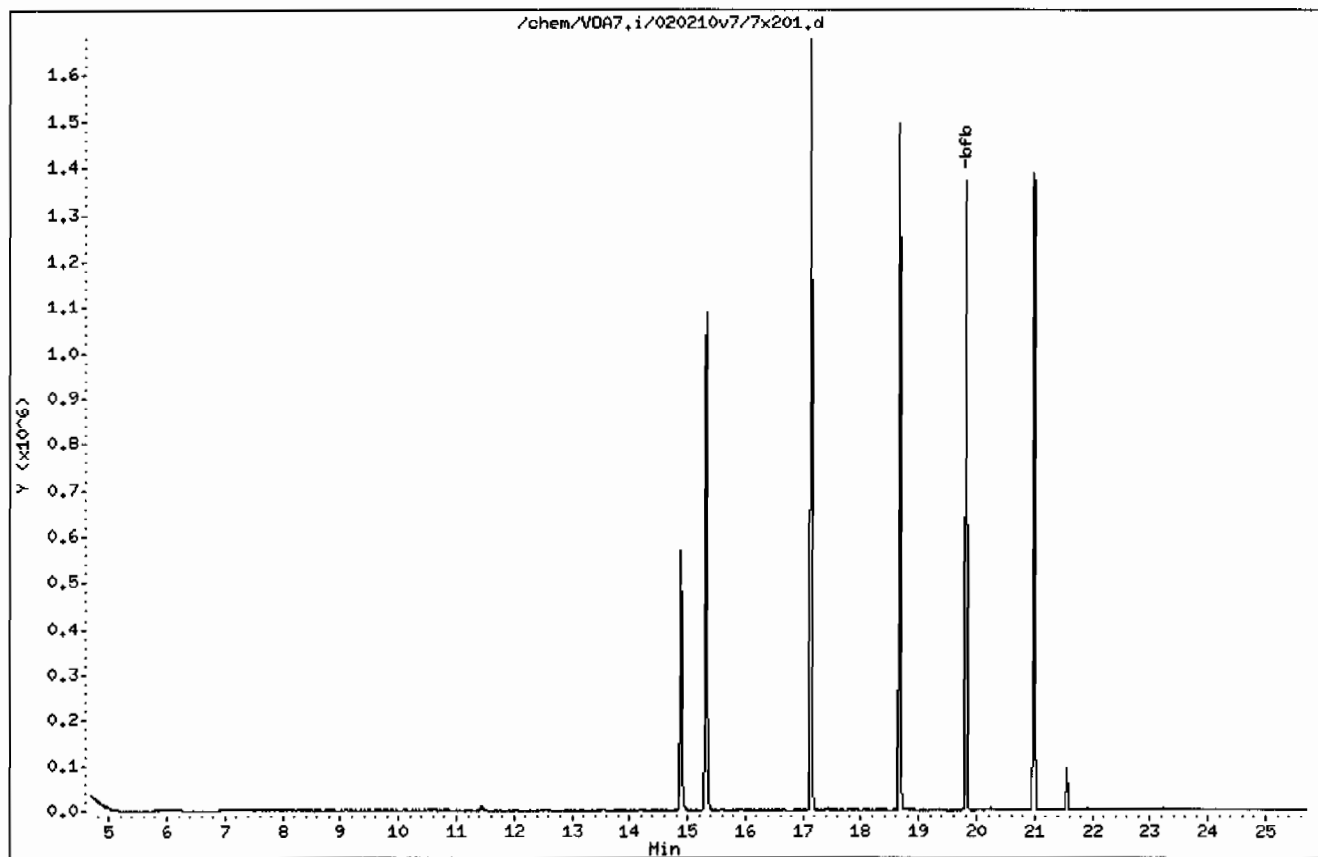
Instrument: VOA7.i

Sample Info: I120200-----|BLANK|1|VOAF|1|

Operator: CDS1

Column phase: db624

Column diameter: 0.25



Date : 02-FEB-2010 15:44

Client ID: BFB01

Instrument: V0A7.i

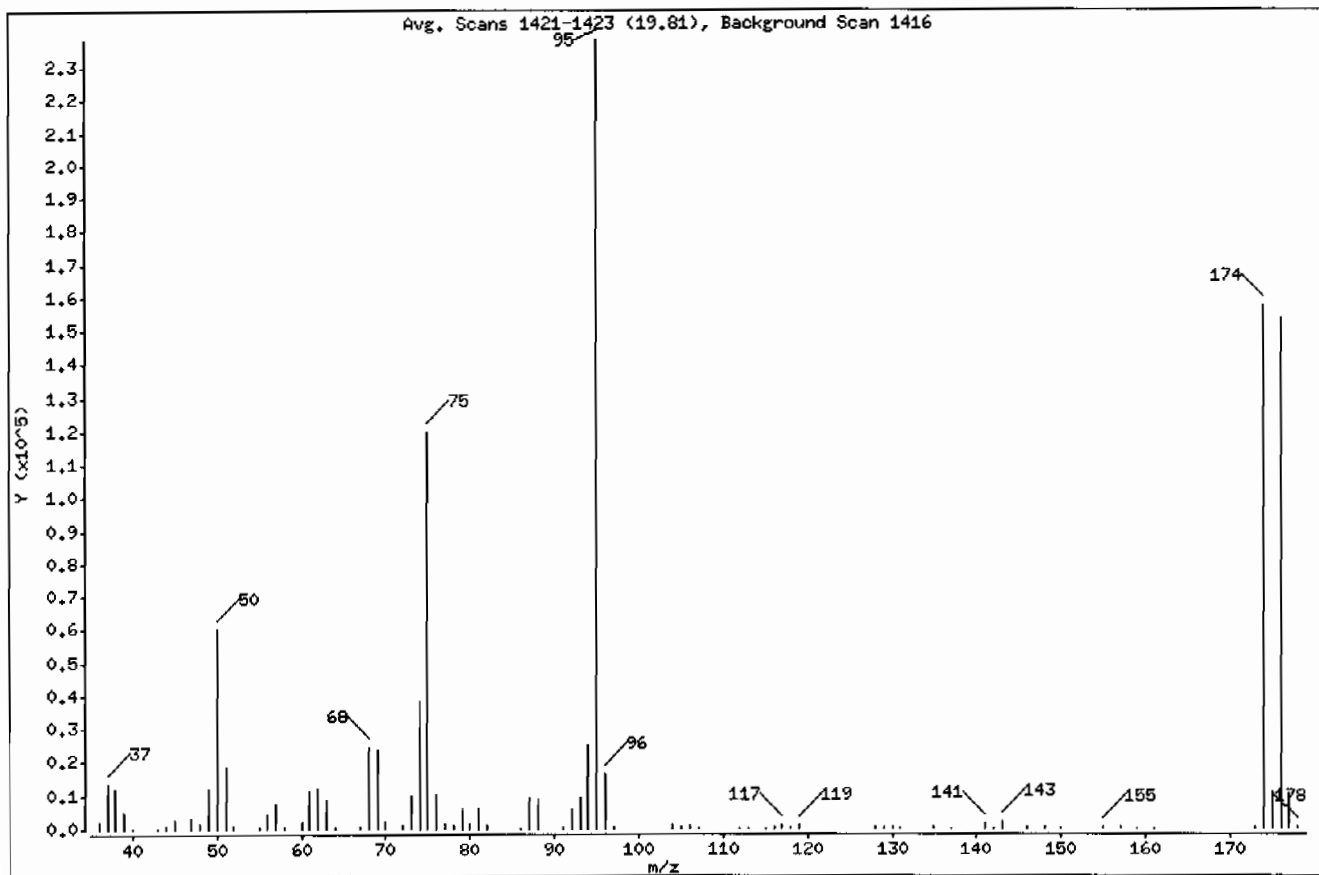
Sample Info: I120200-----|BLANK|1|V0AF|1|

Operator: CDS1

Column phase: db624

Column diameter: 0,25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.26
75	30.00 - 60.00% of mass 95	50.40
96	5.00 - 9.00% of mass 95	6.90
173	Less than 2.00% of mass 174	0.31 (0.48)
174	50.00 - 100.00% of mass 95	65.87
175	5.00 - 9.00% of mass 174	4.68 (7.10)
176	95.00 - 101.00% of mass 174	64.45 (97.84)
177	5.00 - 9.00% of mass 176	4.47 (6.94)

Date : 02-FEB-2010 15:44

Client ID: BFB01

Instrument: V0A7.i

Sample Info: I120200-----IBLANKI1I1V0AFI1I

Operator: CDS1

Column phase: db624

Column diameter: 0.25

Data File: 7x201.d

Spectrum: Avg. Scans 1421-1423 (19,81), Background Scan 1416

Location of Maximum: 95.00

Number of points: 81

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2178	63.00	8928	92.00	6024	135.00	371
37.00	13529	64.00	793	93.00	9324	137.00	151
38.00	11942	67.00	609	94.00	25328	141.00	1837
39.00	4988	68.00	24584	95.00	238336	142.00	182
40.00	173	69.00	23504	96.00	16448	143.00	1920
43.00	176	70.00	1932	97.00	564	146.00	327
44.00	1335	72.00	1161	104.00	939	148.00	471
45.00	2739	73.00	9771	105.00	331	150.00	116
47.00	3559	74.00	38568	106.00	888	155.00	446
48.00	1592	75.00	120120	107.00	99	157.00	361
49.00	12147	76.00	10301	112.00	88	159.00	88
50.00	60192	77.00	1379	113.00	97	161.00	145
51.00	18696	78.00	825	115.00	205	173.00	748
52.00	841	79.00	5454	116.00	695	174.00	156992
55.00	661	80.00	1706	117.00	1354	175.00	11144
56.00	4297	81.00	6012	118.00	687	176.00	153600
57.00	7528	82.00	1182	119.00	975	177.00	10655
58.00	299	86.00	89	128.00	710	178.00	367
60.00	2228	87.00	9295	129.00	423		
61.00	11487	88.00	8669	130.00	738		
62.00	11963	91.00	750	131.00	245		

Data File: /chem/VOA7.i/021110v7/7y424BFB.d

Page 1

Date : 11-FEB-2010 22:10

Client ID: BFB01

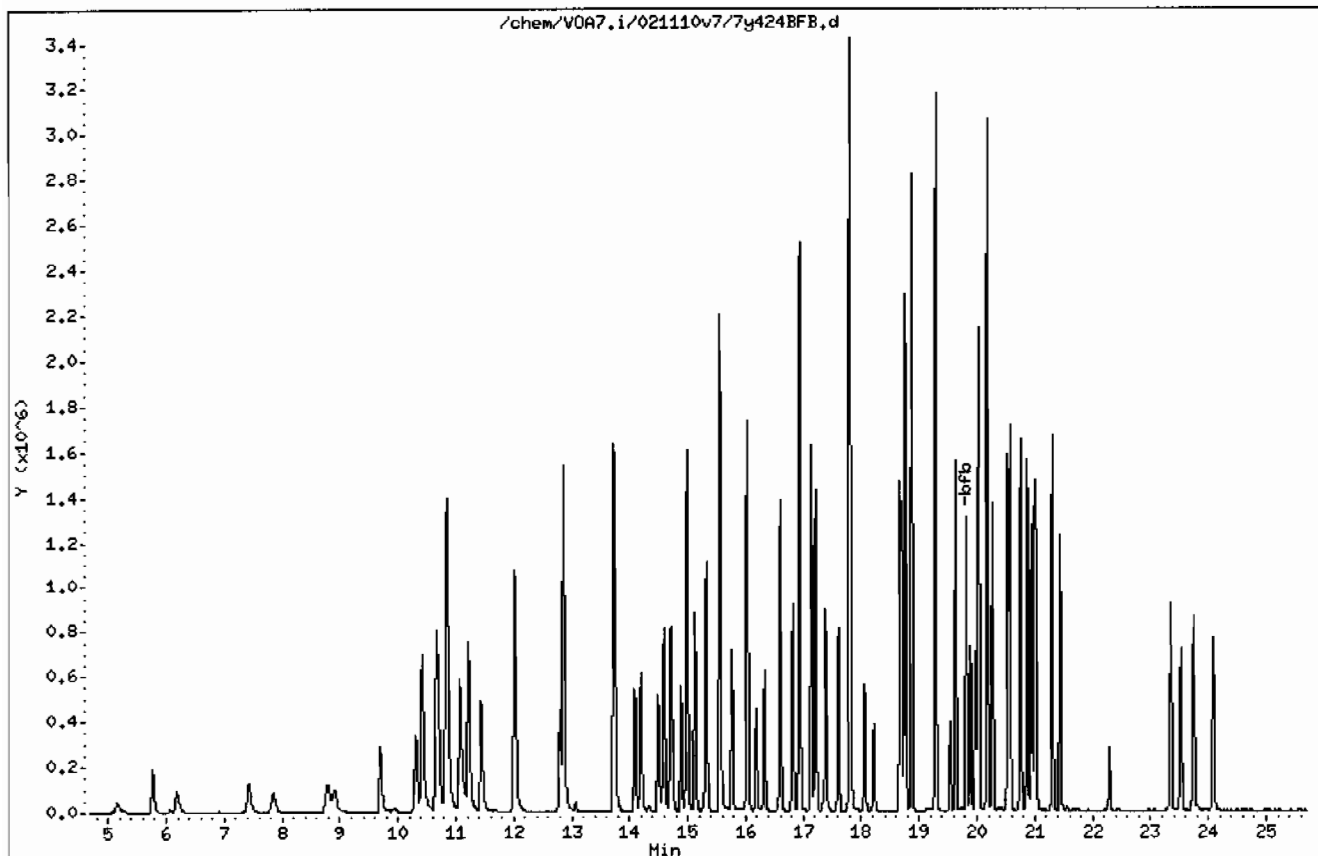
Instrument: VOA7.i

Sample Info: IW7VM100211-061CCV111VOAF111

Operator: AX01

Column phase: db624

Column diameter: 0,25



Date : 11-FEB-2010 22:10

Client ID: BFB01

Instrument: VOA7.i

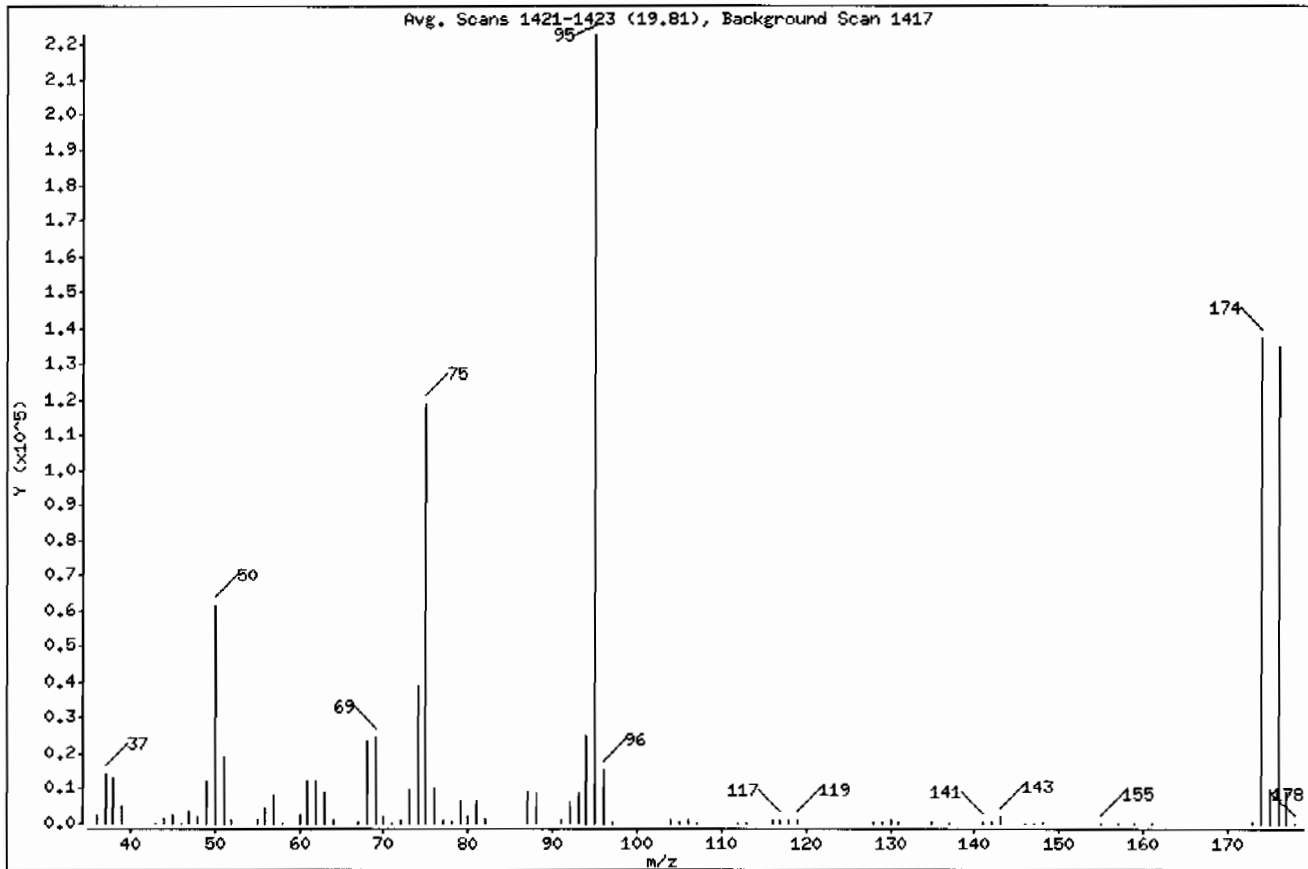
Sample Info: IW7VM100211-06ICCV11IVDAF111

Operator: AX01

Column phase: db624

Column diameter: 0.25

1 bfb



m/e		ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	1	Base Peak, 100% relative abundance	100.00
50	1	15.00 - 40.00% of mass 95	27.60
75	1	30.00 - 60.00% of mass 95	53.22
96	1	5.00 - 9.00% of mass 95	6.96
173	1	Less than 2.00% of mass 174	0.33 (0.54)
174	1	50.00 - 100.00% of mass 95	61.65
175	1	5.00 - 9.00% of mass 174	4.31 (6.99)
176	1	95.00 - 101.00% of mass 174	60.67 (98.42)
177	1	5.00 - 9.00% of mass 176	4.10 (6.77)

Date : 11-FEB-2010 22:10

Client ID: BFB01

Instrument: V0A7.i

Sample Info: IW7VH100211-06ICCV11V0AF11I

Operator: AX01

Column phase: db624

Column diameter: 0.25

Data File: 7y424BFB.d

Spectrum: Avg. Scans 1421-1423 (19.81), Background Scan 1417

Location of Maximum: 95.00

Number of points: 80

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2585	63.00	8877	92.00	6045	137.00	256
37.00	14226	64.00	792	93.00	8524	141.00	734
38.00	13411	67.00	667	94.00	24848	142.00	285
39.00	5126	68.00	23624	95.00	222784	143.00	2103
43.00	109	69.00	24544	96.00	15510	146.00	217
44.00	1438	70.00	1992	97.00	485	147.00	119
45.00	2682	71.00	99	104.00	1139	148.00	449
46.00	90	72.00	1181	105.00	431	155.00	203
47.00	3359	73.00	9903	106.00	904	157.00	85
48.00	1793	74.00	38784	107.00	189	159.00	105
49.00	12347	75.00	118576	112.00	84	161.00	117
50.00	61496	76.00	10219	113.00	97	173.00	743
51.00	19096	77.00	1195	116.00	853	174.00	137344
52.00	793	78.00	746	117.00	1173	175.00	9601
55.00	938	79.00	6624	118.00	774	176.00	135168
56.00	4689	80.00	1889	119.00	1038	177.00	9145
57.00	8434	81.00	6870	128.00	697	178.00	219
58.00	206	82.00	1711	129.00	337		
60.00	2392	87.00	9085	130.00	784		
61.00	12220	88.00	8844	131.00	339		
62.00	12141	91.00	865	135.00	362		

Data File: /chem/V0A7.i/021210v7/7y502BFB.d

Page 1

Date : 12-FEB-2010 12:35

Client ID: BFB01

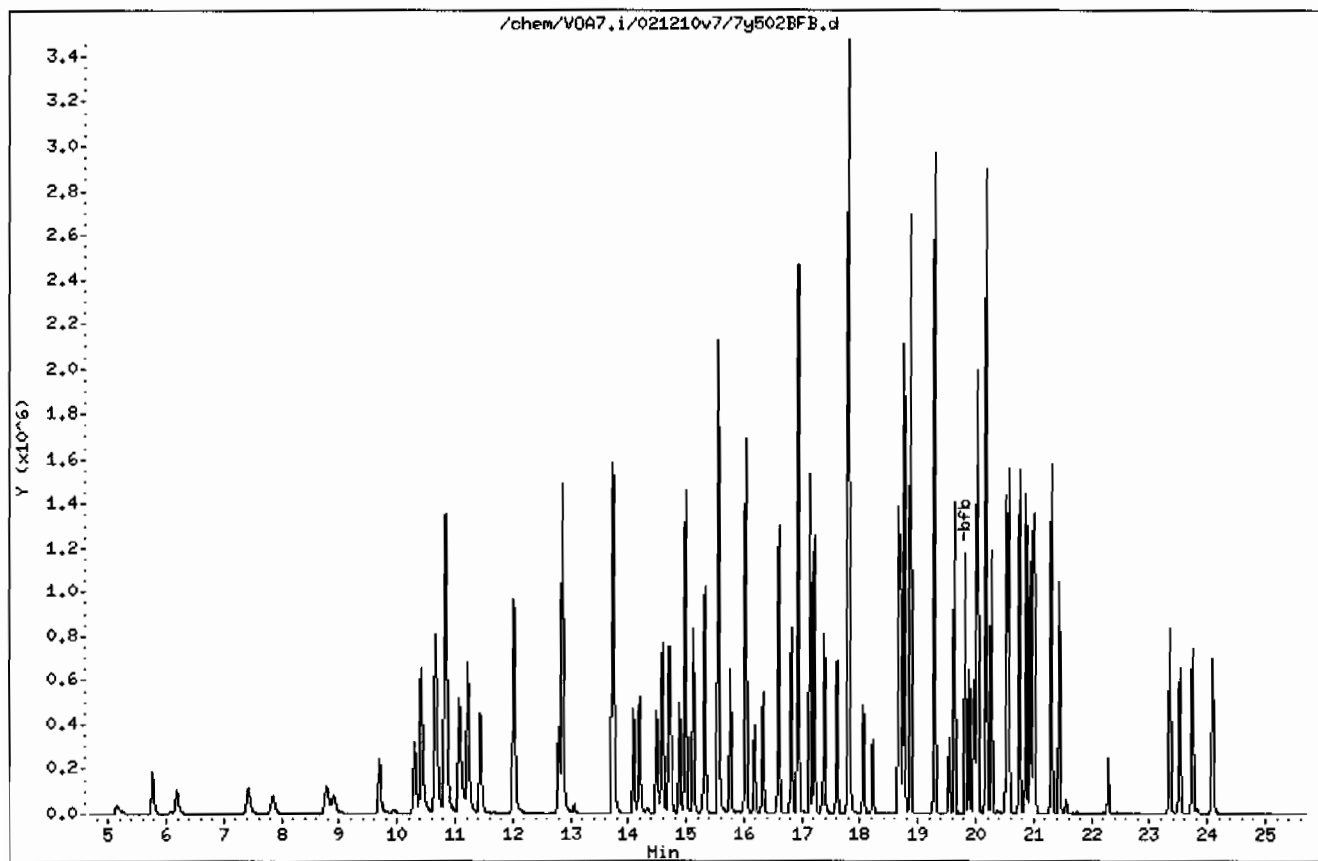
Instrument: V0A7.i

Sample Info: IW7VM100212-011BFB/CCV111V0AF111

Operator: AX01

Column phase: db624

Column diameter: 0.25



Date : 12-FEB-2010 12:35

Client ID: BFB01

Instrument: VOA7.i

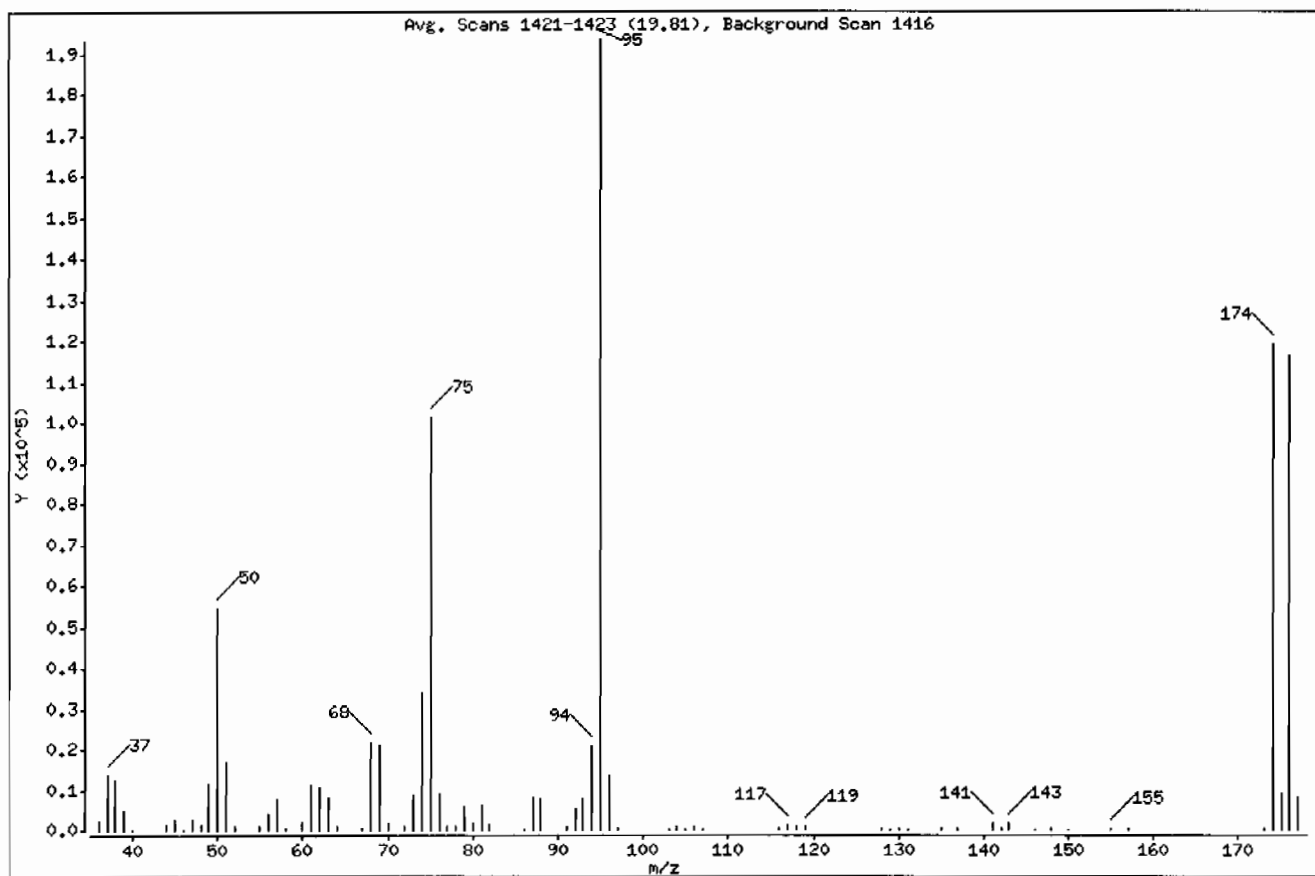
Sample Info: IW7VM100212-01|BFB/CCV11|VOAF11|

Operator: AXD1

Column phase: db624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	28.34
75	30.00 - 60.00% of mass 95	52.41
96	5.00 - 9.00% of mass 95	6.93
173	Less than 2.00% of mass 174	0.23 (0.37)
174	50.00 - 100.00% of mass 95	61.59
175	5.00 - 9.00% of mass 174	4.48 (7.28)
176	95.00 - 101.00% of mass 174	60.23 (97.80)
177	5.00 - 9.00% of mass 176	4.06 (6.74)

Date : 12-FEB-2010 12:35

Client ID: BFB01

Instrument: VOA7.i

Sample Info: 1W7VM100212-011BFB/CCV111VOAF111

Operator: AX01

Column phase: db624

Column diameter: 0.25

Data File: 7y502BFB.d
Spectrum: Avg. Scans 1421-1423 (19.81), Background Scan 1416
Location of Maximum: 95.00
Number of points: 76

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2386	62.00	10509	88.00	7756	131.00	122
37.00	13736	63.00	8095	91.00	688	135.00	384
38.00	12326	64.00	780	92.00	5391	137.00	363
39.00	5068	67.00	505	93.00	7622	141.00	1809
40.00	42	68.00	21976	94.00	20744	142.00	264
44.00	1295	69.00	20864	95.00	193536	143.00	1973
45.00	2703	70.00	1711	96.00	13411	146.00	91
46.00	201	72.00	987	97.00	282	148.00	269
47.00	2727	73.00	8498	103.00	101	150.00	98
48.00	1512	74.00	33928	104.00	911	155.00	288
49.00	11611	75.00	101424	105.00	189	157.00	252
50.00	54856	76.00	8825	106.00	843	173.00	440
51.00	17096	77.00	1079	107.00	93	174.00	119200
52.00	783	78.00	839	116.00	568	175.00	8678
55.00	784	79.00	5812	117.00	1256	176.00	116576
56.00	3971	80.00	1754	118.00	719	177.00	7855
57.00	7637	81.00	6314	119.00	1076		
58.00	268	82.00	1437	128.00	545		
60.00	1940	86.00	98	129.00	187		
61.00	11069	87.00	8169	130.00	618		

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1567
Lab Sample ID: 1202040701

Matrix: SOIL

Client Sample: QC for batch 952148
Client ID: MB for batch 952148
Batch ID: 952150
Run Date: 02/12/2010 01:42
Prep Date: 02/11/2010 15:00
Data File: 7y430BL.d

Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Project: QC
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

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

Page 2 of 2

SDG Number: 10-1567

Matrix: SOIL

Lab Sample ID: 1202040701

Client Sample: QC for batch 952148

Client: LANL010

Project: QC

Client ID: MB for batch 952148

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 952150

Inst: VOA7.1

Dilution: 1

Run Date: 02/12/2010 01:42

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 02/11/2010 15:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7y430BL.d

Column: DB-624

Level: LOW

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
No Tentatively Identified Compounds Found						

Data File: /chem/VOA7.i/021110v7/7y430BL.d
Report Date: 22-Feb-2010 06:44

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GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021110v7/7y430BL.d
Lab Smp Id: 1202040701 Client Smp ID: BLANK
Inj Date : 12-FEB-2010 01:42
Operator : AX01 Inst ID: VOA7.i
Smp Info : |1202040701|952150|1|VOAF|1|
Misc Info : GEL 5g N/A
Comment :
Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m
Meth Date : 22-Feb-2010 06:38 ale01592 Quant Type: ISTD
Cal Date : 03-FEB-2010 00:25 Cal File: 7x216.d
Als bottle: 30 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	ON-COLUMN (ug/l)	FINAL (ug/Kg)
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.972)	445391	49.4755
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	982853	50.0000
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1055344	54.8159
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	652996	50.0000
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	443508	54.0090
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.991	(1.000)	315322	50.0000

Data File: /chem/VOA7.i/021110v7/7y430BL.d
Report Date: 22-Feb-2010 06:44

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GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021110v7/7y430BL.d
Lab Smp Id: 1202040701 Client Smp ID: BLANK
Inj Date : 12-FEB-2010 01:42
Operator : AX01 Inst ID: VOA7.i
Smp Info : |1202040701|952150|1|VOAF|1|
Misc Info : GEL 5g N/A
Comment :
Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m
Meth Date : 22-Feb-2010 06:38 ale01592 Quant Type: ISTD
Cal Date : 03-FEB-2010 00:25 Cal File: 7x216.d
Als bottle: 30 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: prdsvr07

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/VOA7.i/021107/7y430BL.d
Date : 12-FEB-2010 01:42
Client ID: BLANK
Sample Info: 11202040701195215011VOAF11

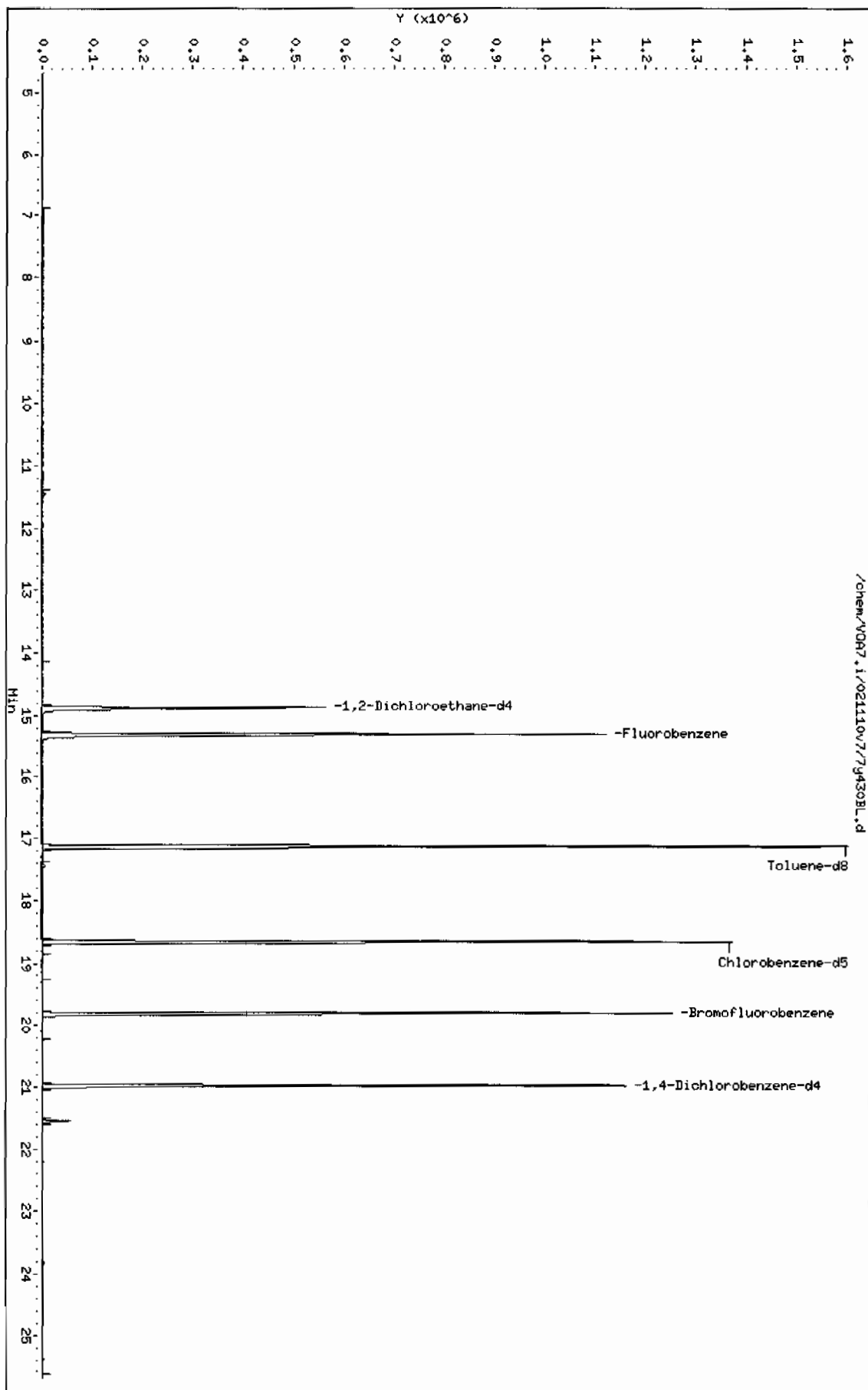
Column phase: DB-624

Instrument: VOA7.i

Operator: RXD1

Column diameter: 0.25

Page 1



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 1202049551

Client Sample: QC for batch 952148
 Client ID: MB for batch 952148
 Batch ID: 952150
 Run Date: 02/12/2010 17:10
 Prep Date: 02/12/2010 10:00
 Data File: 7y510LL.d

Client: LANL.010
 Method: SW846 8260B
 Inst: VOA7.1
 Analyst: AXO1
 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
 Level: LOW

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: 10-1567

Lab Sample ID: 1202049551

Client Sample: QC for batch 952148

Client ID: MB for batch 952148

Batch ID: 952150

Run Date: 02/12/2010 17:10

Prep Date: 02/12/2010 10:00

Data File: 7y510LL.d

Client: LANL010

Method: SW846 8260B

Inst: VOA7.I

Analyst: AXO1

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

Level: LOW

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
	No Tentatively Identified Compounds Found			ug/kg		

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/021210v7/7y510LL.d
Lab Smp Id: 1202049551 Client Smp ID: BLANK
Inj Date : 12-FEB-2010 17:10
Operator : AX01 Inst ID: VOA7.i
Smp Info : |1202049551|952150|1|VOAF|1|
Misc Info : GEL 5g N/A
Comment :
Method : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
Meth Date : 22-Feb-2010 06:51 ale01592 Quant Type: ISTD
Cal Date : 03-FEB-2010 00:25 Cal File: 7x216.d
Als bottle: 10 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ug/l)	FINAL (ug/Kg)
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	428950	52.2749	52.3
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	895882	50.0000	
\$ 64 Toluene-d8	98	17.144	17.134	(0.918)	996464	55.5016	55.5
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	608947	50.0000	
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	400028	53.5838	53.6
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992	(1.000)	286666	50.0000	

Data File: /chem/VOA7.i/021210v7/7y510LL.d
Report Date: 22-Feb-2010 08:37

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GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021210v7/7y510LL.d
Lab Smp Id: 1202049551 Client Smp ID: BLANK
Inj Date : 12-FEB-2010 17:10
Operator : AX01 Inst ID: VOA7.i
Smp Info : |1202049551|952150|1|VOAF|1|
Misc Info : GEL 5g N/A
Comment :
Method : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
Meth Date : 22-Feb-2010 06:51 ale01592 Quant Type: ISTD
Cal Date : 03-FEB-2010 00:25 Cal File: 7x216.d
Als bottle: 10 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: prdsvr07

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/V0A7.i/021210v7/7g510LL.d

Date: 12-FEB-2010 17:10

Client ID: BLANK

Sample Info: 1202049551|95215011|V0AF111

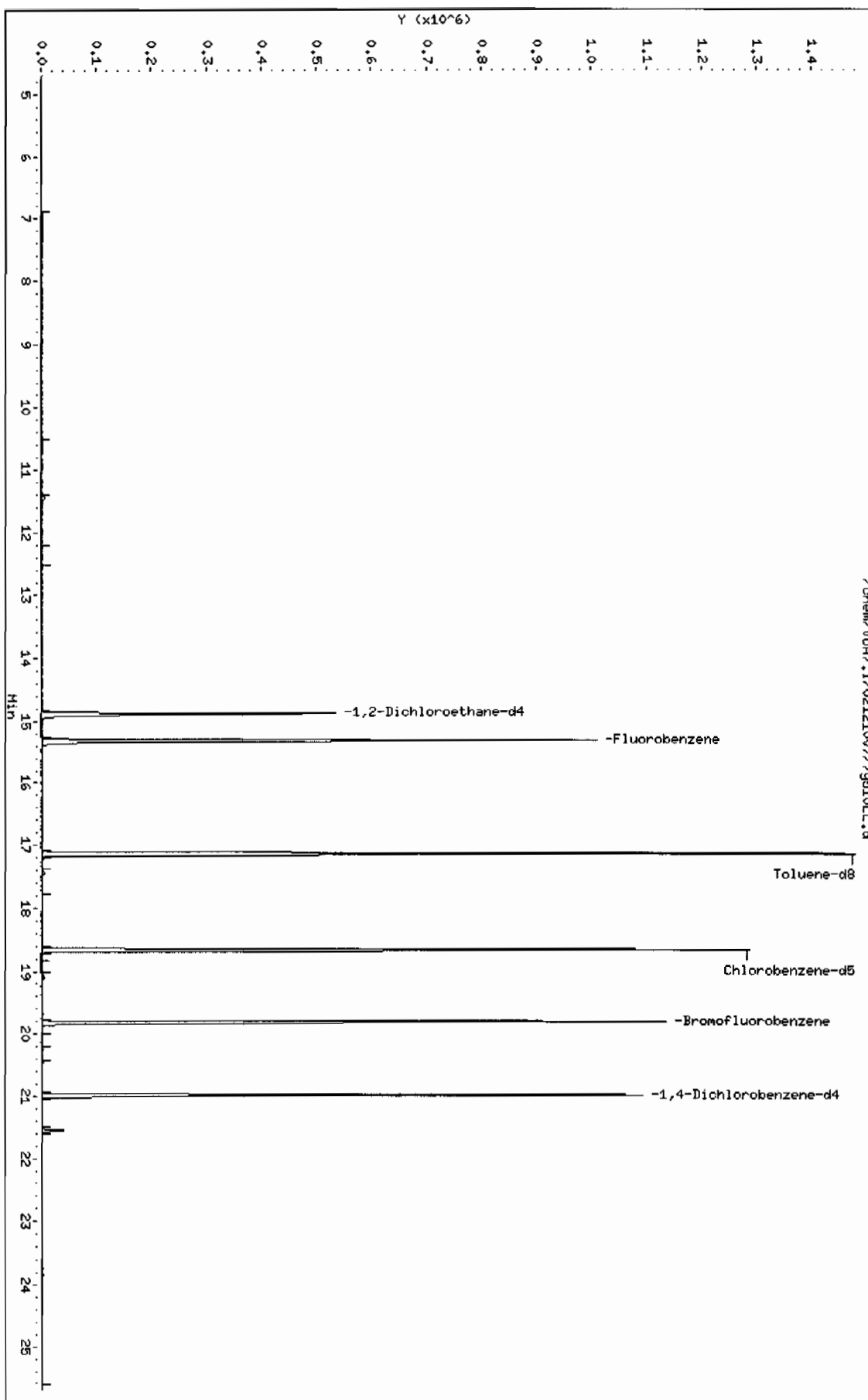
Column phase: DB-624

Instrument: V0A7.i

Operator: AX01

Column diameter: 0.25

Page 1



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 1202040704

Matrix: SOIL

Client Sample: QC for batch 952148
 Client ID: LCS for batch 952148
 Batch ID: 952150
 Run Date: 02/11/2010 23:21
 Prep Date: 02/11/2010 15:00
 Data File: 7y426LL.d

Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Project: QC
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane		31.5	ug/kg	0.340	1.00
74-87-3	Chloromethane		36.4	ug/kg	0.300	1.00
75-01-4	Vinyl chloride		41.9	ug/kg	0.300	1.00
74-83-9	Bromomethane		44.3	ug/kg	0.300	1.00
75-00-3	Chloroethane		40.8	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane		40.8	ug/kg	0.300	1.00
67-64-1	Acetone		180	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene		39.7	ug/kg	0.300	1.00
74-88-4	Iodomethane		195	ug/kg	1.60	5.00
75-09-2	Methylene chloride		44.1	ug/kg	2.00	5.00
75-15-0	Carbon disulfide		205	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene		40.7	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane		42.6	ug/kg	0.300	1.00
78-93-3	2-Butanone		179	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene		41.1	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane		45.6	ug/kg	0.300	1.00
67-66-3	Chloroform		40.9	ug/kg	0.300	1.00
74-97-5	Bromochloromethane		42.1	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane		41.2	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene		40.6	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride		40.6	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane		42.0	ug/kg	0.300	1.00
71-43-2	Benzene		39.4	ug/kg	0.300	1.00
79-01-6	Trichloroethylene		43.0	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane		41.5	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane		40.8	ug/kg	0.300	1.00
74-95-3	Dibromomethane		43.7	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone		228	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene		40.4	ug/kg	0.300	1.00
108-88-3	Toluene		44.3	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene		47.9	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane		45.3	ug/kg	0.300	1.00
591-78-6	2-Hexanone	E	168	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane		44.0	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene		41.4	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane		45.0	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane		45.1	ug/kg	0.300	1.00
108-90-7	Chlorobenzene		44.7	ug/kg	0.300	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 1202040704
 Client Sample: QC for batch 952148
 Client ID: LCS for batch 952148
 Batch ID: 952150
 Run Date: 02/11/2010 23:21
 Prep Date: 02/11/2010 15:00
 Data File: 7y426LL.d

Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 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
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene		40.7	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes		85.8	ug/kg	0.300	2.00
95-47-6	o-Xylene		43.5	ug/kg	0.300	1.00
100-42-5	Styrene		43.2	ug/kg	0.300	1.00
75-25-2	Bromoform		47.8	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane		46.5	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane		48.0	ug/kg	0.300	1.00
108-86-1	Bromobenzene		44.4	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene		42.8	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene		43.0	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene		44.5	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene		45.8	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene		44.6	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene		45.1	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene		45.2	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene		44.7	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene		44.8	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene		43.1	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene		44.2	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene		45.5	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane		51.4	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		45.6	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene		44.4	ug/kg	0.300	1.00

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021110v7/7y426LL.d

Lab Smp Id: 1202040704

Client Smp ID: LCS

Inj Date : 11-FEB-2010 23:21

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202040704|952150|1|VOAF|1|

Misc Info : GEL 5g N/A UVM100126-01C/IVM100206-01

Comment :

Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

Meth Date : 22-Feb-2010 06:38 ale01592

Quant Type: ISTD

Cal Date : 03-FEB-2010 00:25

Cal File: 7x216.d

Als bottle: 26

QC Sample: LCS

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: all.sub

Target Version: 3.50

Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
						(ug/l)	(ug/Kg)
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE		
=====	=====	==	=====	=====	=====	=====	=====
M 1 1,3-Dichloropropylene	75				913609	83.6402	83.6
M 2 Xylenes (total)	106				1215215	129.371	129
M 3 1,2-Dichloroethylene (total)	96				880602	81.7756	81.8
4 Dichlorodifluoromethane	85	5.148	5.147	(0.336)	138410	31.5497	31.5
5 Chloromethane	50	5.757	5.757	(0.376)	316163	36.4289	36.4
6 Vinyl chloride	62	6.188	6.188	(0.404)	264419	41.8728	41.9
7 Bromomethane	94	7.419	7.418	(0.484)	197373	44.3381	44.3
8 Chloroethane	64	7.855	7.855	(0.513)	194409	40.8040	40.8
9 Trichlorofluoromethane	101	8.789	8.789	(0.574)	329329	40.8148	40.8
10 Ethyl Ether	59	9.703	9.703	(0.633)	287144	41.2900	41.3
13 Acetone	43	10.413	10.413	(0.680)	1359350	180.165	180
14 1,1-Dichloroethylene	96	10.312	10.312	(0.673)	198882	39.6989	39.7

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/l)	(ug/Kg)
16 Iodomethane		142	10.667	10.667	(0.696)	1730022	194.705	195
17 Acetonitrile		41	11.073	11.073	(0.723)	1314531	1059.02	1060
18 Methyl acetate		43	11.226	11.215	(0.733)	1464211	218.046	218
19 Carbon disulfide		76	10.840	10.840	(0.708)	3425723	205.120	205
22 Methylene chloride		86	11.449	11.449	(0.747)	185091	44.1151	44.1
24 tert-Butyl methyl ether		73	12.017	12.017	(0.785)	772706	42.4822	42.5
25 trans-1,2-Dichloroethylene		61	12.028	12.027	(0.785)	412279	40.7243	40.7
26 Vinyl acetate		43	12.860	12.860	(0.840)	2944491	173.308	173
28 1,1-Dichloroethane		63	12.799	12.799	(0.836)	568149	42.5733	42.6
31 2-Butanone		43	13.723	13.723	(0.896)	1437627	178.530	178
33 cis-1,2-Dichloroethylene		61	13.733	13.733	(0.897)	468323	41.0513	41.0
34 2,2-Dichloropropane		77	13.743	13.743	(0.897)	230962	45.5626	45.6
37 Bromochloromethane		49	14.088	14.088	(0.920)	351906	42.1241	42.1
38 Chloroform		83	14.190	14.190	(0.926)	468840	40.8906	40.9
41 1,1,1-Trichloroethane		97	14.484	14.484	(0.946)	352116	41.2353	41.2
43 Cyclohexane		56	14.586	14.586	(0.952)	479912	39.7678	39.8
44 1,1-Dichloropropene		75	14.697	14.697	(0.960)	330229	40.5762	40.6
45 Carbon tetrachloride		117	14.728	14.728	(0.962)	281357	40.5968	40.6
\$ 46 1,2-Dichloroethane-d4		65	14.880	14.880	(0.972)	459973	48.8757	48.9
47 1,2-Dichloroethane		62	14.982	14.982	(0.978)	462455	42.0371	42.0
48 Benzene		78	14.982	14.982	(0.978)	943831	39.3708	39.4
50 Cyclohexene		67	15.114	15.124	(0.987)	458858	39.0028	39.0
* 51 Fluorobenzene		96	15.317	15.317	(1.000)	1027488	50.0000	
52 n-Butyl alcohol		56	15.560	15.560	(1.016)	1463522	5076.61	5080
53 Trichloroethylene		95	15.763	15.763	(1.029)	255840	42.9670	43.0
55 Methylcyclohexane		83	16.027	16.027	(1.046)	389705	39.9288	39.9
56 1,2-Dichloropropane		63	16.037	16.037	(1.047)	316620	41.5313	41.5
58 Dibromomethane		93	16.180	16.180	(1.056)	188750	43.7353	43.7
59 Bromodichloromethane		83	16.332	16.332	(1.066)	385007	40.7871	40.8
61 2-Chloroethylvinyl ether		63	16.606	16.606	(1.084)	617505	223.844	224
62 cis-1,3-Dichloropropylene		75	16.819	16.819	(1.098)	465915	40.3672	40.4
63 4-Methyl-2-pentanone		58	16.941	16.941	(0.908)	783636	228.388	228
\$ 64 Toluene-d8		98	17.134	17.134	(0.918)	1094660	51.1776	51.2
65 Toluene		92	17.215	17.215	(0.922)	572622	44.2818	44.3
67 trans-1,3-Dichloropropylene		75	17.388	17.388	(0.931)	447694	47.9284	47.9
68 1,1,2-Trichloroethane		83	17.611	17.611	(0.943)	222742	45.3408	45.3
69 2-Hexanone		43	17.794	17.794	(0.953)	1681160	167.706	168 (A)
70 1,3-Dichloropropane		76	17.794	17.794	(0.953)	443145	44.0140	44.0
71 Tetrachloroethylene		164	17.814	17.814	(0.954)	154401	41.3793	41.4
72 Dibromochloromethane		129	18.058	18.058	(0.967)	271356	45.0124	45.0
73 1,2-Dibromoethane		107	18.220	18.220	(0.976)	261982	45.0728	45.1
* 75 Chlorobenzene-d5		117	18.667	18.667	(1.000)	725475	50.0000	
76 Chlorobenzene		112	18.697	18.697	(1.002)	602222	44.6583	44.6
77 1,1,1,2-Tetrachloroethane		131	18.758	18.758	(1.005)	228036	45.6493	45.6
78 Ethylbenzene		91	18.768	18.768	(1.005)	1031183	40.6992	40.7
79 m,p-Xylenes		106	18.870	18.870	(1.011)	789700	85.8278	85.8
80 o-Xylene		106	19.286	19.286	(1.033)	425515	43.5436	43.5

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
						(ug/l)	(ug/Kg)	
81 Styrene	104	19.286	19.286	(1.033)	699732	43.2043	43.2	
82 Bromoform	173	19.540	19.540	(0.931)	183150	47.8254	47.8	
83 Isopropylbenzene	105	19.631	19.631	(0.935)	981355	44.4563	44.4	
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	492155	52.6551	52.6	
87 1,1,2,2-Tetrachloroethane	83	19.885	19.885	(0.947)	356147	46.5357	46.5	
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	88728	48.0051	48.0	
90 Bromobenzene	156	20.017	20.017	(0.954)	249949	44.4362	44.4	
91 n-Propylbenzene	91	20.027	20.027	(0.954)	1217267	42.7697	42.8	
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	854920	45.8250	45.8	
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	872481	42.9666	43.0	
94 4-Chlorotoluene	91	20.271	20.271	(0.966)	822256	44.6060	44.6	
95 tert-Butylbenzene	119	20.525	20.524	(0.978)	775207	45.0601	45.1	
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	882066	45.1866	45.2	
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	1084744	44.6694	44.7	
99 4-Isopropyltoluene	119	20.860	20.860	(0.994)	820925	44.8133	44.8	
100 1,3-Dichlorobenzene	146	20.931	20.931	(0.997)	464866	43.1079	43.1	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.991	(1.000)	358906	50.0000		
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	454890	44.1816	44.2	
104 n-Butylbenzene	91	21.296	21.296	(1.014)	925839	45.5232	45.5	
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	477975	44.4457	44.4	
107 1,2-Dibromo-3-chloropropane	157	22.291	22.291	(1.062)	69201	51.4338	51.4	
108 1,2,4-Trichlorobenzene	180	23.357	23.357	(1.113)	298179	43.2260	43.2	
109 Hexachlorobutadiene	225	23.530	23.529	(1.121)	154888	42.0076	42.0	
110 Naphthalene	128	23.743	23.743	(1.131)	829171	47.4780	47.5	
111 1,2,3-Trichlorobenzene	180	24.098	24.098	(1.148)	290182	46.1412	46.1	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

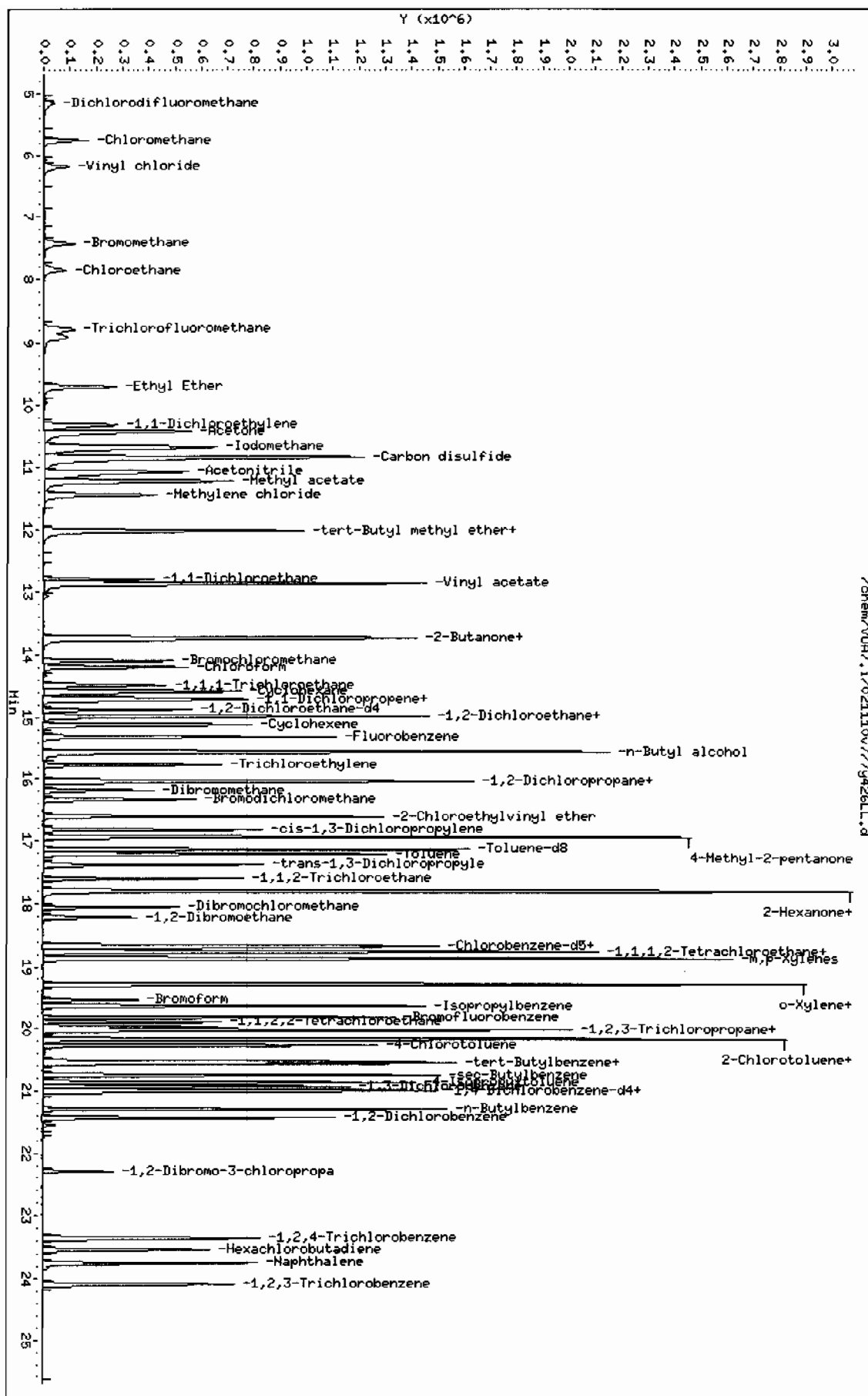
Data File: /chem/V0A7.1/02110v77/79426LL.d
 Date : 11-FEB-2010 23:21
 Client ID: LCS
 Sample Info: 11202040704195215011\V0A7.1

Column phase: DB-624

Instrument: V0A7.1

Operator: AX01
 Column diameter: 0.25

/chem/V0A7.1/02110v77/79426LL.d



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567		Matrix: SOIL
Lab Sample ID: 1202049552		
Client Sample: QC for batch 952148	Client: LANL010	Project: QC
Client ID: LCS for batch 952148	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952150	Inst: VOA7.I	Dilution: 1
Run Date: 02/12/2010 15:26	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/12/2010 10:00	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7y507LL.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane		48.2	ug/kg	0.340	1.00
74-87-3	Chloromethane		46.9	ug/kg	0.300	1.00
75-01-4	Vinyl chloride		55.4	ug/kg	0.300	1.00
74-83-9	Bromomethane		51.8	ug/kg	0.300	1.00
75-00-3	Chloroethane		47.4	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane		48.4	ug/kg	0.300	1.00
67-64-1	Acetone		231	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene		46.5	ug/kg	0.300	1.00
74-88-4	Iodomethane		212	ug/kg	1.60	5.00
75-09-2	Methylene chloride		44.4	ug/kg	2.00	5.00
75-15-0	Carbon disulfide		237	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene		46.0	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane		46.0	ug/kg	0.300	1.00
78-93-3	2-Butanone		227	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene		45.1	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane		59.8	ug/kg	0.300	1.00
67-66-3	Chloroform		43.3	ug/kg	0.300	1.00
74-97-5	Bromochloromethane		44.0	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane		48.2	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene		47.4	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride		47.4	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane		44.1	ug/kg	0.300	1.00
71-43-2	Benzene		43.7	ug/kg	0.300	1.00
79-01-6	Trichloroethylene		47.2	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane		44.3	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane		42.4	ug/kg	0.300	1.00
74-95-3	Dibromomethane		44.3	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone		253	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene		42.0	ug/kg	0.300	1.00
108-88-3	Toluene		49.7	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene		49.8	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane		47.3	ug/kg	0.300	1.00
591-78-6	2-Hexanone	E	209	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane		45.9	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene		49.3	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane		46.1	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane		46.4	ug/kg	0.300	1.00
108-90-7	Chlorobenzene		48.3	ug/kg	0.300	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
 Lab Sample ID: 1202049552
 Client Sample: QC for batch 952148
 Client ID: LCS for batch 952148
 Batch ID: 952150
 Run Date: 02/12/2010 15:26
 Prep Date: 02/12/2010 10:00
 Data File: 7y507LL.d

Client: LANL010
 Method: SW846 8260B
 Inst: VOA7J
 Analyst: AXO1
 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
 Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene		46.5	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes		100	ug/kg	0.300	2.00
95-47-6	o-Xylene		49.0	ug/kg	0.300	1.00
100-42-5	Styrene		48.0	ug/kg	0.300	1.00
75-25-2	Bromoform		48.9	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane		49.4	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane		48.7	ug/kg	0.300	1.00
108-86-1	Bromobenzene		46.7	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene		49.2	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene		48.8	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene		51.4	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene		52.3	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene		48.7	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene		51.7	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene		49.4	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene		52.5	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene		52.3	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene		47.3	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene		49.1	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene		53.0	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane		52.3	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		48.3	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene		46.8	ug/kg	0.300	1.00

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021210v7/7y507LL.d
 Lab Smp Id: 1202049552 Client Smp ID: LCS
 Inj Date : 12-FEB-2010 15:26
 Operator : AX01 Inst ID: VOA7.i
 Smp Info : |1202049552|952150|1|VOAF|1|
 Misc Info : GEL 5g N/A UVM100126-01D/IVM100210-01
 Comment :
 Method : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
 Meth Date : 22-Feb-2010 06:51 ale01592 Quant Type: ISTD
 Cal Date : 03-FEB-2010 00:25 Cal File: 7x216.d
 Als bottle: 7 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

		QUANT SIG			CONCENTRATIONS		
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
M 1 1,3-Dichloropropylene	75				887220	86.6312	86.6
M 2 Xylenes (total)	106				1305785	149.318	149
M 3 1,2-Dichloroethylene (total)	96				919369	91.1302	91.1
4 Dichlorodifluoromethane	85	5.147	5.148	(0.336)	198150	48.1737	48.2
5 Chloromethane	50	5.757	5.757	(0.376)	381606	46.8962	46.9
6 Vinyl chloride	62	6.187	6.188	(0.404)	327842	55.3723	55.4
7 Bromomethane	94	7.418	7.419	(0.484)	216221	51.8055	51.8
8 Chloroethane	64	7.845	7.835	(0.512)	211843	47.4230	47.4
9 Trichlorofluoromethane	101	8.799	8.789	(0.574)	366097	48.3919	48.4
10 Ethyl Ether	59	9.703	9.693	(0.633)	275179	42.2035	42.2
13 Acetone	43	10.413	10.413	(0.680)	1635258	231.160	231
14 1,1-Dichloroethylene	96	10.312	10.302	(0.673)	218460	46.5096	46.5

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
16 Iodomethane	142	10.667	10.667	(0.696)	1766380	212.030	212
17 Acetonitrile	41	11.073	11.073	(0.723)	1282474	1101.97	1100
18 Methyl acetate	43	11.225	11.215	(0.733)	1387520	220.380	220
19 Carbon disulfide	76	10.840	10.840	(0.708)	3708879	236.857	237
22 Methylene chloride	86	11.439	11.439	(0.747)	174566	44.3857	44.4
24 tert-Butyl methyl ether	73	12.017	12.017	(0.785)	736778	43.2033	43.2
25 trans-1,2-Dichloroethylene	61	12.027	12.027	(0.785)	436441	45.9807	46.0
26 Vinyl acetate	43	12.860	12.860	(0.840)	3609556	226.595	226
28 1,1-Dichloroethane	63	12.799	12.799	(0.836)	575862	46.0237	46.0
31 2-Butanone	43	13.723	13.723	(0.896)	1712008	226.756	227
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	482928	45.1494	45.1
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	284112	59.7785	59.8
37 Bromochloromethane	49	14.088	14.088	(0.920)	344542	43.9880	44.0
38 Chloroform	83	14.190	14.190	(0.926)	465314	43.2845	43.3
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	386048	48.2184	48.2
43 Cyclohexane	56	14.586	14.586	(0.952)	551325	48.7266	48.7
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	361618	47.3908	47.4
45 Carbon tetrachloride	117	14.728	14.728	(0.962)	307989	47.3977	47.4
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	436216	49.4368	49.4
47 1,2-Dichloroethane	62	14.982	14.982	(0.978)	454767	44.0900	44.1
48 Benzene	78	14.982	14.982	(0.978)	983256	43.7457	43.7
50 Cyclohexene	67	15.124	15.114	(0.987)	516987	46.8690	46.9
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	963360	50.0000	
52 n-Butyl alcohol	56	15.560	15.560	(1.016)	1454913	5382.69	5380
53 Trichloroethylene	95	15.763	15.763	(1.029)	263694	47.2341	47.2
55 Methylcyclohexane	83	16.027	16.027	(1.046)	445127	48.6432	48.6
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	316863	44.3299	44.3
58 Dibromomethane	93	16.179	16.180	(1.056)	179188	44.2835	44.3
59 Bromodichloromethane	83	16.332	16.332	(1.066)	375449	42.4222	42.4
61 2-Chloroethylvinyl ether	63	16.606	16.606	(1.084)	602088	232.783	233
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	454134	41.9657	42.0
63 4-Methyl-2-pentanone	58	16.941	16.941	(0.908)	807079	252.526	252
\$ 64 Toluene-d8	98	17.144	17.134	(0.918)	1046641	52.5327	52.5
65 Toluene	92	17.215	17.215	(0.922)	598338	49.6746	49.7
67 trans-1,3-Dichloropropylene	75	17.387	17.388	(0.931)	433086	49.7757	49.8
68 1,1,2-Trichloroethane	83	17.611	17.611	(0.943)	216600	47.3344	47.3
69 2-Hexanone	43	17.794	17.794	(0.953)	1953509	209.212	209 (A)
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	430577	45.9121	45.9
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	171395	49.3131	49.3
72 Dibromochloromethane	129	18.058	18.058	(0.967)	258984	46.1208	46.1
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	251436	46.4410	46.4
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	675758	50.0000	
76 Chlorobenzene	112	18.697	18.697	(1.002)	606547	48.2883	48.3
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	224704	48.2917	48.3
78 Ethylbenzene	91	18.768	18.758	(1.005)	1097169	46.4895	46.5
79 m,p-Xylenes	106	18.870	18.870	(1.011)	859912	100.335	100
80 o-Xylene	106	19.286	19.286	(1.033)	445873	48.9837	49.0

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l) FINAL (ug/Kg)
81 Styrene		104	19.286	19.286	(1.033)	724103	47.9984 48.0
82 Bromoform		173	19.540	19.540	(0.931)	175108	48.8616 48.9
83 Isopropylbenzene		105	19.631	19.631	(0.935)	1061878	51.4034 51.4
\$ 86 Bromofluorobenzene		95	19.814	19.814	(0.944)	452131	51.6907 51.7
87 1,1,2,2-Tetrachloroethane		83	19.885	19.885	(0.947)	354125	49.4451 49.4
89 1,2,3-Trichloropropane		110	19.966	19.966	(0.951)	84315	48.7462 48.7
90 Bromobenzene		156	20.017	20.017	(0.954)	245814	46.6983 46.7
91 n-Propylbenzene		91	20.027	20.027	(0.954)	1309947	49.1828 49.2
92 1,3,5-Trimethylbenzene		105	20.169	20.169	(0.961)	912441	52.2626 52.3
93 2-Chlorotoluene		91	20.169	20.169	(0.961)	928082	48.8395 48.8
94 4-Chlorotoluene		91	20.271	20.271	(0.966)	840558	48.7263 48.7
95 tert-Butylbenzene		119	20.535	20.525	(0.978)	832818	51.7290 51.7
96 1,2,4-Trimethylbenzene		105	20.565	20.565	(0.980)	903124	49.4385 49.4
98 sec-Butylbenzene		105	20.748	20.748	(0.988)	1193098	52.5011 52.5
99 4-Isopropyltoluene		119	20.859	20.860	(0.994)	896743	52.3095 52.3
100 1,3-Dichlorobenzene		146	20.930	20.931	(0.997)	477340	47.3006 47.3
* 101 1,4-Dichlorobenzene-d4		152	20.991	20.992	(1.000)	335870	50.0000
102 1,4-Dichlorobenzene		146	21.012	21.012	(1.001)	473034	49.0950 49.1
104 n-Butylbenzene		91	21.296	21.296	(1.014)	1008986	53.0141 53.0
105 1,2-Dichlorobenzene		146	21.438	21.438	(1.021)	471208	46.8217 46.8
107 1,2-Dibromo-3-chloropropane		157	22.301	22.291	(1.062)	65822	52.2777 52.3
108 1,2,4-Trichlorobenzene		180	23.357	23.357	(1.113)	311399	48.2386 48.2
109 Hexachlorobutadiene		225	23.529	23.530	(1.121)	167080	48.4221 48.4
110 Naphthalene		128	23.743	23.743	(1.131)	796447	48.7321 48.7
111 1,2,3-Trichlorobenzene		180	24.098	24.098	(1.148)	291141	49.4688 49.5

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

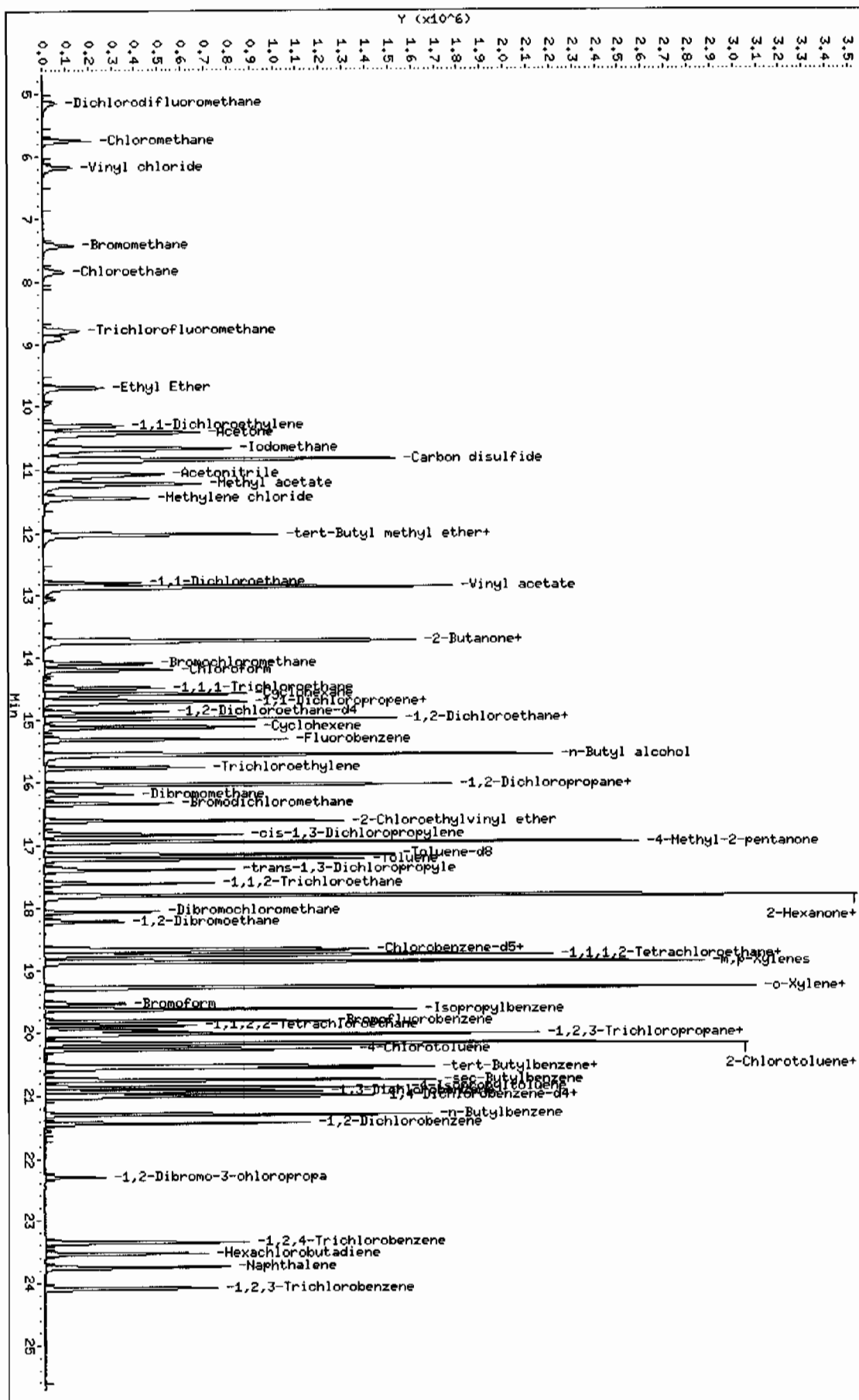
Data File: /chem/V007.1/021210v77jg507LL.d
Date: 12-FEB-2010 15:26
Client ID: LCS
Sample Info: 11202049552195215011V00711

Column phase: DB-624

/chem/V007.1/021210v77jg507LL.d

Instrument: V007.1
Operator: AX01
Column diameter: 0.25

Page 1



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567		Matrix: SOIL
Lab Sample ID: 1202040705		
Client Sample: QC for batch 952148	Client: LANL010	Project: QC
Client ID: LCS for batch 952148	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952150	Inst: VOA7.I	Dilution: 1
Run Date: 02/12/2010 00:33	Analyst: AX01	Purge Vol: 5 mL
Prep Date: 02/11/2010 15:00	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7y428LL.d	Column: DB-624	Level: LOW

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: 10-1567

Lab Sample ID: 1202040705

Client Sample: QC for batch 952148

Client ID: LCS for batch 952148

Batch ID: 952150

Run Date: 02/12/2010 00:33

Prep Date: 02/11/2010 15:00

Data File: 7y428LL.d

Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 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

Level: LOW

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		229	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

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021110v7/7y428LL.d

Lab Smp Id: 1202040705

Client Smp ID: SLCS

Inj Date : 12-FEB-2010 00:33

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202040705|952150|1|VOAF|1|

Misc Info : GEL 5g N/A UVM100118-08B/UVM100125-08B

Comment :

Method : /chem/VOA7.i/021110v7/VOA7-8260B-020210pm.m

Meth Date : 22-Feb-2010 06:38 ale01592

Quant Type: ISTD

Cal Date : 03-FEB-2010 00:25

Cal File: 7x216.d

Als bottle: 28

QC Sample: LCS

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: all.sub

Target Version: 3.50

Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ug/l)	FINAL (ug/Kg)
147 Chlorotrifluoroethylene	116	5.029	5.029	(0.328)	210786	67.4147	67.4 (R)
148 2-Chloro-1,1,1-trifluoroethane	118	6.604	6.604	(0.431)	625477	110.282	110
11 Acrolein	56	10.017	10.017	(0.654)	330364	203.311	203
12 Trichlorotrifluoroethane	85	10.373	10.373	(0.677)	487413	228.513	228
15 Isopropyl Alcohol	45	10.779	10.779	(0.704)	1918667	2800.01	2800
20 Allyl chloride	41	11.185	11.185	(0.730)	2219074	192.611	193
21 tert-Butyl Alcohol	59	11.662	11.662	(0.761)	2723546	2665.71	2660
23 Acrylonitrile	53	11.926	11.926	(0.779)	683719	220.011	220
27 Isopropyl ether	45	12.901	12.900	(0.842)	1207936	39.2426	39.2
29 2-Chloro-1,3-butadiene	53	12.961	12.961	(0.846)	440410	43.2185	43.2
30 Ethyl tert-butyl ether	59	13.489	13.489	(0.881)	903841	46.3552	46.4
32 Ethyl acetate	43	13.804	13.804	(0.901)	1733886	192.252	192

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/l)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====
35 Propionitrile		54	13.804	13.804	(0.901)	270729	222.334	222
36 Methacrylonitrile		41	14.038	14.037	(0.916)	1115641	197.753	198
39 Tetrahydrofuran		42	14.159	14.159	(0.675)	632540	253.878	254
42 Isobutyl alcohol		41	14.748	14.748	(0.963)	839274	2172.15	2170
\$ 46 1,2-Dichloroethane-d4		65	14.880	14.880	(0.972)	454426	46.3618	46.4
49 Methyl tert-amyl ether		73	15.073	15.073	(0.984)	704504	48.7312	48.7
* 51 Fluorobenzene		96	15.317	15.317	(1.000)	1070139	50.0000	
54 Methyl methacrylate		69	16.078	16.078	(1.050)	1030628	207.264	207
57 1,4-Dioxane		88	16.159	16.159	(1.055)	179490	2608.42	2610
60 2-Nitropropane		43	16.555	16.555	(1.081)	754424	229.178	229
\$ 64 Toluene-d8		98	17.134	17.134	(0.918)	1149386	54.8940	54.9
66 Ethyl methacrylate		69	17.408	17.408	(0.933)	1833630	219.218	219
74 1-Chlorohexane		55	18.575	18.575	(1.213)	343570	43.1507	43.2
* 75 Chlorobenzene-d5		117	18.667	18.667	(1.000)	710173	50.0000	
84 cis-1,4-Dichloro-2-butene		53	19.662	19.662	(0.937)	726588	265.381	265
85 Cyclohexanone		55	19.773	19.773	(1.059)	605248	413.382	413
\$ 86 Bromofluorobenzene		95	19.814	19.814	(0.944)	471861	50.3881	50.4
88 trans-1,4-Dichloro-2-butene		53	19.926	19.926	(0.949)	653311	276.354	276
97 Pentachloroethane		167	20.606	20.596	(0.982)	419129	215.231	215
* 101 1,4-Dichlorobenzene-d4		152	20.992	20.991	(1.000)	359588	50.0000	
103 Benzyl chloride		91	21.124	21.123	(1.006)	2190664	233.578	234
106 bis(2-Chloroisopropyl)ether		45	21.509	21.509	(1.025)	1165987	250.136	250

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

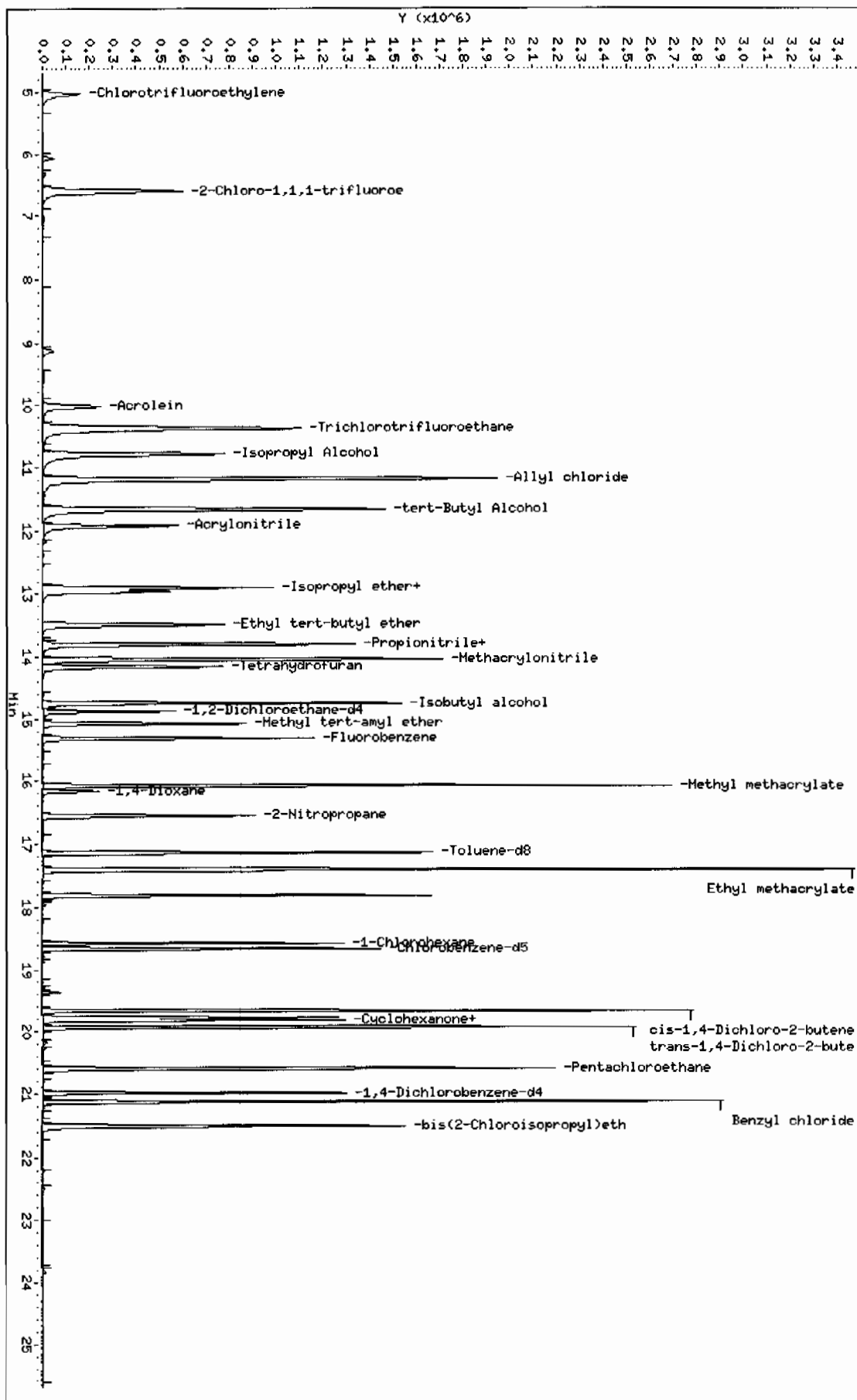
Data File: /chem/V007.i/02110v7/7g428LL.d
Date : 12-FEB-2010 00:33
Client ID: SLCS
Sample Info: 11202040705195215011.V00AF11

Column phase: DB-624

Instrument: V007.i

Operator: AX01
Column diameter: 0.25

/chem/V007.i/02110v7/7g428LL.d



**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1567

Matrix: SOIL

Lab Sample ID: 1202049553

Client Sample: QC for batch 952148

Client: LANL010

Project: QC

Client ID: LCS for batch 952148

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 952150

Inst: VOA7.1

Dilution: 1

Run Date: 02/12/2010 16:01

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 02/12/2010 10:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7y508LL.d

Column: DB-624

Level: LOW

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: 10-1567
 Lab Sample ID: 1202049553

Matrix: SOIL

Client Sample: QC for batch 952148
 Client ID: LCS for batch 952148
 Batch ID: 952150
 Run Date: 02/12/2010 16:01
 Prep Date: 02/12/2010 10:00
 Data File: 7y508LL.d

Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.1
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Project: QC
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

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		199	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

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021210v7/7y508LL.d
Lab Smp Id: 1202049553 Client Smp ID: SLCS
Inj Date : 12-FEB-2010 16:01
Operator : AX01 Inst ID: VOA7.i
Smp Info : |1202049553|952150|1|VOAF|1|
Misc Info : GEL 5g N/A UVM100118-08B/UVM100125-08B
Comment :
Method : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
Meth Date : 22-Feb-2010 06:51 ale01592 Quant Type: ISTD
Cal Date : 03-FEB-2010 00:25 Cal File: 7x216.d
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							(ug/l)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	
147 Chlorotrifluoroethylene	116	5.044	5.029	(0.329)	158101	54.5866	54.6 (R)	
148 2-Chloro-1,1,1-trifluoroethane	118	6.604	6.604	(0.431)	521596	99.2809	99.3 (R)	
11 Acrolein	56	10.017	10.017	(0.654)	311219	206.763	207	
12 Trichlorotrifluoroethane	85	10.373	10.373	(0.677)	392985	198.897	199	
15 Isopropyl Alcohol	45	10.779	10.779	(0.704)	1839666	2898.26	2900	
20 Allyl chloride	41	11.185	11.185	(0.730)	1961185	183.767	184	
21 tert-Butyl Alcohol	59	11.662	11.662	(0.761)	2658498	2809.01	2810	
23 Acrylonitrile	53	11.926	11.926	(0.779)	632785	219.817	220	
27 Isopropyl ether	45	12.900	12.901	(0.842)	1089971	38.2267	38.2	
29 2-Chloro-1,3-butadiene	53	12.961	12.961	(0.846)	362584	38.4113	38.4	
30 Ethyl tert-butyl ether	59	13.489	13.489	(0.881)	826527	45.7617	45.8	
32 Ethyl acetate	43	13.804	13.804	(0.901)	1655644	198.178	198	

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l) FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
35 Propionitrile	54	13.804	13.804	(0.901)	257350	228.157	228
36 Methacrylonitrile	41	14.037	14.038	(0.916)	1058452	202.539	202
39 Tetrahydrofuran	42	14.159	14.159	(0.675)	595498	258.720	259
42 Isobutyl alcohol	41	14.748	14.748	(0.963)	813589	2273.16	2270
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	446807	49.2103	49.2
49 Methyl tert-amyl ether	73	15.073	15.073	(0.984)	665987	49.7311	49.7
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	991292	50.0000	
54 Methyl methacrylate	69	16.078	16.078	(1.050)	981169	213.012	213
57 1,4-Dioxane	88	16.159	16.159	(1.055)	157098	2464.60	2460
60 2-Nitropropane	43	16.555	16.555	(1.081)	720736	236.359	236
\$ 64 Toluene-d8	98	17.144	17.134	(0.918)	1090074	55.4627	55.5
66 Ethyl methacrylate	69	17.408	17.408	(0.933)	1727997	220.087	220
74 1-Chlorohexane	55	18.575	18.575	(1.213)	303103	41.0962	41.1
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	666620	50.0000	
84 cis-1,4-Dichloro-2-butene	53	19.662	19.662	(0.937)	703800	278.255	278
85 Cyclohexanone	55	19.773	19.773	(1.059)	547848	398.625	399
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	438355	50.6701	50.7
88 trans-1,4-Dichloro-2-butene	53	19.926	19.926	(0.949)	642291	294.097	294
97 Pentachloroethane	167	20.596	20.596	(0.981)	513908	285.663	286 (A)
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	332195	50.0000	
103 Benzyl chloride	91	21.123	21.124	(1.006)	2268006	261.765	262
106 bis(2-Chloroisopropyl)ether	45	21.509	21.509	(1.025)	1103071	256.152	256

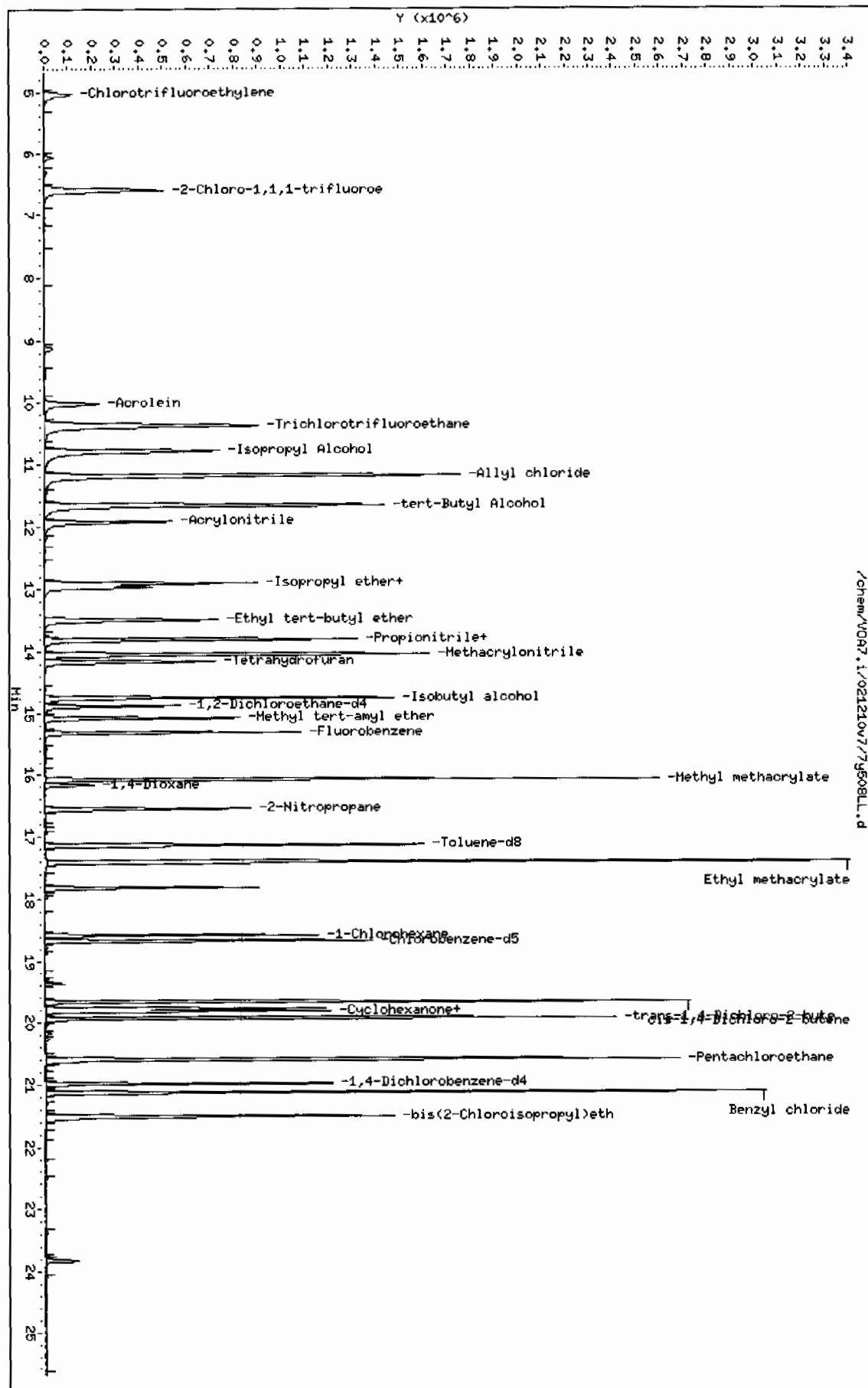
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- R - Spike/Surrogate failed recovery limits.

Data File: /chem/V007.i/021210v7/7g508LL.d
Date: 12-FEB-2010 16:01
Client ID: SLCS
Sample Info: 11202049553195215011/V007111

Column phase: DB-624

Instrument: V007.i
Operator: RX01
Column diameter: 0.25



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 1202040702	Date Received: 02/05/2010 09:00	%Moisture: 20.3
Client Sample: QC for batch 952148	Client: LANL010	Project: QC
Client ID: RE15-10-8304PS	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952150	Inst: VOA7.1	Dilution: 1
Run Date: 02/12/2010 21:16	Analyst: AX01	Purge Vol: 5 mL
Prep Date: 02/12/2010 15:18	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7y517.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane		46.0	ug/kg	0.427	1.26
74-87-3	Chloromethane		59.5	ug/kg	0.377	1.26
75-01-4	Vinyl chloride		71.7	ug/kg	0.377	1.26
74-83-9	Bromomethane		59.5	ug/kg	0.377	1.26
75-00-3	Chloroethane		55.3	ug/kg	0.377	1.26
75-69-4	Trichlorofluoromethane		49.0	ug/kg	0.377	1.26
67-64-1	Acetone		99.1	ug/kg	2.08	6.28
75-35-4	1,1-Dichloroethylene		50.2	ug/kg	0.377	1.26
74-88-4	Iodomethane		222	ug/kg	2.01	6.28
75-09-2	Methylene chloride		56.8	ug/kg	2.51	6.28
75-15-0	Carbon disulfide		267	ug/kg	1.57	6.28
156-60-5	trans-1,2-Dichloroethylene		51.5	ug/kg	0.377	1.26
75-34-3	1,1-Dichloroethane		53.4	ug/kg	0.377	1.26
78-93-3	2-Butanone		149	ug/kg	1.88	6.28
156-59-2	cis-1,2-Dichloroethylene		53.2	ug/kg	0.377	1.26
594-20-7	2,2-Dichloropropane		56.0	ug/kg	0.377	1.26
67-66-3	Chloroform		49.5	ug/kg	0.377	1.26
74-97-5	Bromochloromethane		53.7	ug/kg	0.414	1.26
71-55-6	1,1,1-Trichloroethane		49.2	ug/kg	0.377	1.26
563-58-6	1,1-Dichloropropene		49.9	ug/kg	0.377	1.26
56-23-5	Carbon tetrachloride		48.4	ug/kg	0.377	1.26
107-06-2	1,2-Dichloroethane		52.5	ug/kg	0.377	1.26
71-43-2	Benzene		50.8	ug/kg	0.377	1.26
79-01-6	Trichloroethylene		49.6	ug/kg	0.414	1.26
78-87-5	1,2-Dichloropropane		54.7	ug/kg	0.377	1.26
75-27-4	Bromodichloromethane		48.8	ug/kg	0.377	1.26
74-95-3	Dibromomethane		51.4	ug/kg	0.377	1.26
108-10-1	4-Methyl-2-pentanone		274	ug/kg	1.57	6.28
10061-01-5	cis-1,3-Dichloropropylene		42.3	ug/kg	0.377	1.26
108-88-3	Toluene		56.5	ug/kg	0.377	1.26
10061-02-6	trans-1,3-Dichloropropylene		48.7	ug/kg	0.377	1.26
79-00-5	1,1,2-Trichloroethane		57.0	ug/kg	0.377	1.26
591-78-6	2-Hexanone	E	161	ug/kg	1.88	6.28
142-28-9	1,3-Dichloropropane		56.6	ug/kg	0.377	1.26
127-18-4	Tetrachloroethylene		51.6	ug/kg	0.377	1.26
124-48-1	Dibromochloromethane		49.9	ug/kg	0.377	1.26
106-93-4	1,2-Dibromoethane		49.9	ug/kg	0.377	1.26
108-90-7	Chlorobenzene		52.0	ug/kg	0.377	1.26

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 1202040702	Date Received: 02/05/2010 09:00	%Moisture: 20.3
Client Sample: QC for batch 952148	Client: LANL010	Project: QC
Client ID: RE15-10-8304PS	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952150	Inst: VOA7.I	Dilution: 1
Run Date: 02/12/2010 21:16	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/12/2010 15:18	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7y517.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene		51.1	ug/kg	0.377	1.26
179601-23-1	m,p-Xylenes		105	ug/kg	0.377	2.51
95-47-6	o-Xylene		54.2	ug/kg	0.377	1.26
100-42-5	Styrene		47.0	ug/kg	0.377	1.26
75-25-2	Bromoform		58.9	ug/kg	0.377	1.26
79-34-5	1,1,2,2-Tetrachloroethane		65.8	ug/kg	0.377	1.26
96-18-4	1,2,3-Trichloropropane		61.1	ug/kg	0.377	1.26
108-86-1	Bromobenzene		55.4	ug/kg	0.377	1.26
103-65-1	n-Propylbenzene		60.7	ug/kg	0.377	1.26
95-49-8	2-Chlorotoluene		60.8	ug/kg	0.377	1.26
98-82-8	Isopropylbenzene		67.6	ug/kg	0.377	1.26
108-67-8	1,3,5-Trimethylbenzene		66.4	ug/kg	0.377	1.26
106-43-4	4-Chlorotoluene		51.8	ug/kg	0.377	1.26
98-06-6	tert-Butylbenzene		66.0	ug/kg	0.377	1.26
95-63-6	1,2,4-Trimethylbenzene		59.1	ug/kg	0.377	1.26
135-98-8	sec-Butylbenzene		63.7	ug/kg	0.377	1.26
99-87-6	4-Isopropyltoluene		37.7	ug/kg	0.377	1.26
541-73-1	1,3-Dichlorobenzene		48.5	ug/kg	0.377	1.26
106-46-7	1,4-Dichlorobenzene		49.3	ug/kg	0.377	1.26
104-51-8	n-Butylbenzene		54.3	ug/kg	0.377	1.26
96-12-8	1,2-Dibromo-3-chloropropane		57.1	ug/kg	0.377	1.26
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.28	ug/kg	2.01	6.28
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane		56.3	ug/kg	0.377	1.26
95-50-1	1,2-Dichlorobenzene		48.1	ug/kg	0.377	1.26

Data File: /chem/VOA7.i/021210v7/7y517.d
Report Date: 22-Feb-2010 07:10

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GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021210v7/7y517.d

Lab Smp Id: 1202040702

Client Smp ID: RE15-10-8304MS

Inj Date : 12-FEB-2010 21:16

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202040702|952150|1|VOAF|1|

Misc Info : LANL 5g N/A MS 246330002

Comment :

Method : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m

Meth Date : 22-Feb-2010 06:51 ale01592 Quant Type: 1STD

Cal Date : 03-FEB-2010 00:25

Cal File: 7x216.d

Als bottle: 17

QC Sample: MS

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1567.sub

Target Version: 3.50

Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	20.32590	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN	FINAL
						(ug/l)	(ug/Kg)
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	725290	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	493009	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992	(1.000)	199466	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	319732	48.1296	60.4
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	825164	56.7687	71.2
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	302258	58.1873	73.0
4 Dichlorodifluoromethane	85	5.147	5.148	(0.336)	113607	36.6858	46.0
5 Chloromethane	50	5.757	5.757	(0.376)	290503	47.4188	59.5
6 Vinyl chloride	62	6.188	6.188	(0.404)	254732	57.1463	71.7
7 Bromomethane	94	7.429	7.419	(0.485)	148974	47.4095	59.5
8 Chloroethane	64	7.845	7.835	(0.512)	148047	44.0201	55.2
9 Trichlorofluoromethane	101	8.789	8.789	(0.574)	222267	39.0237	49.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Acetone	43	10.423	10.413	(0.681)	420436	78.9412	99.1
14 1,1-Dichloroethylene	96	10.312	10.302	(0.673)	141575	40.0345	50.2
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	224834	39.2924	49.3
16 Iodomethane	142	10.667	10.667	(0.696)	1107011	176.499	222
22 Methylene chloride	86	11.449	11.439	(0.747)	133843	45.2316	56.8
19 Carbon disulfide	76	10.840	10.840	(0.708)	2509071	212.830	267
25 trans-1,2-Dichloroethylene	61	12.027	12.027	(0.785)	292950	40.9940	51.4
28 1,1-Dichloroethane	63	12.799	12.799	(0.836)	401108	42.5796	53.4
31 2-Butanone	43	13.723	13.723	(0.896)	676526	119.018	149
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	341312	42.3837	53.2
100 1,3-Dichlorobenzene	146	20.931	20.931	(0.997)	231644	38.6511	48.5
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	159698	44.6305	56.0
38 Chloroform	83	14.190	14.190	(0.926)	319107	39.4276	49.5
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	228889	38.2967	48.1
37 Bromochloromethane	49	14.088	14.088	(0.920)	252505	42.8192	53.7
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	236348	39.2103	49.2
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	228255	39.7321	49.9
45 Carbon tetrachloride	117	14.728	14.728	(0.962)	188638	38.5592	48.4
47 1,2-Dichloroethane	62	14.982	14.982	(0.978)	324745	41.8187	52.5
48 Benzene	78	14.982	14.982	(0.978)	685102	40.4856	50.8
53 Trichloroethylene	95	15.763	15.763	(1.029)	166133	39.5264	49.6
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	234511	43.5778	54.7
59 Bromodichloromethane	83	16.332	16.332	(1.066)	259299	38.9152	48.8
58 Dibromomethane	93	16.180	16.180	(1.056)	124720	40.9399	51.4
63 4-Methyl-2-pentanone	58	16.941	16.941	(0.908)	509267	218.409	274
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	274542	33.6973	42.3
65 Toluene	92	17.215	17.215	(0.922)	395668	45.0252	56.5
67 trans-1,3-Dichloropropylene	75	17.388	17.388	(0.931)	246264	38.7954	48.7
68 1,1,2-Trichloroethane	83	17.611	17.611	(0.943)	151684	45.4354	57.0
69 2-Hexanone	43	17.804	17.794	(0.954)	875830	128.567	161(A)
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	308690	45.1164	56.6
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	104218	41.1001	51.6
72 Dibromochloromethane	129	18.058	18.058	(0.967)	162890	39.7607	49.9
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	157114	39.7764	49.9
76 Chlorobenzene	112	18.697	18.697	(1.002)	379953	41.4613	52.0
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	152267	44.8543	56.3
78 Ethylbenzene	91	18.768	18.758	(1.005)	700477	40.6829	51.1
79 m,p-Xylenes	106	18.870	18.870	(1.011)	523807	83.7731	105
80 o-Xylene	106	19.286	19.286	(1.033)	286701	43.1724	54.2
81 Styrene	104	19.286	19.286	(1.033)	412274	37.4584	47.0
82 Bromoform	173	19.540	19.540	(0.931)	99886	46.9319	58.9
87 1,1,2,2-Tetrachloroethane	83	19.885	19.885	(0.947)	222843	52.3923	65.8
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	50010	48.6850	61.1
90 Bromobenzene	156	20.017	20.017	(0.954)	137978	44.1374	55.4
91 n-Propylbenzene	91	20.027	20.027	(0.954)	765156	48.3740	60.7
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	546754	48.4483	60.8
83 Isopropylbenzene	105	19.631	19.631	(0.935)	660799	53.8628	67.6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	548625	52.9132	66.4
94 4-Chlorotoluene	91	20.271	20.271	(0.966)	423142	41.3033	51.8
95 tert-Butylbenzene	119	20.535	20.525	(0.978)	502907	52.5986	66.0
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	511009	47.1030	59.1
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	685052	50.7596	63.7
99 4-Isopropyltoluene	119	20.860	20.860	(0.994)	305485	30.0058	37.7
104 n-Butylbenzene	91	21.296	21.296	(1.014)	488587	43.2266	54.2
107 1,2-Dibromo-3-chloropropane	157	22.301	22.291	(1.062)	34041	45.5250	57.1

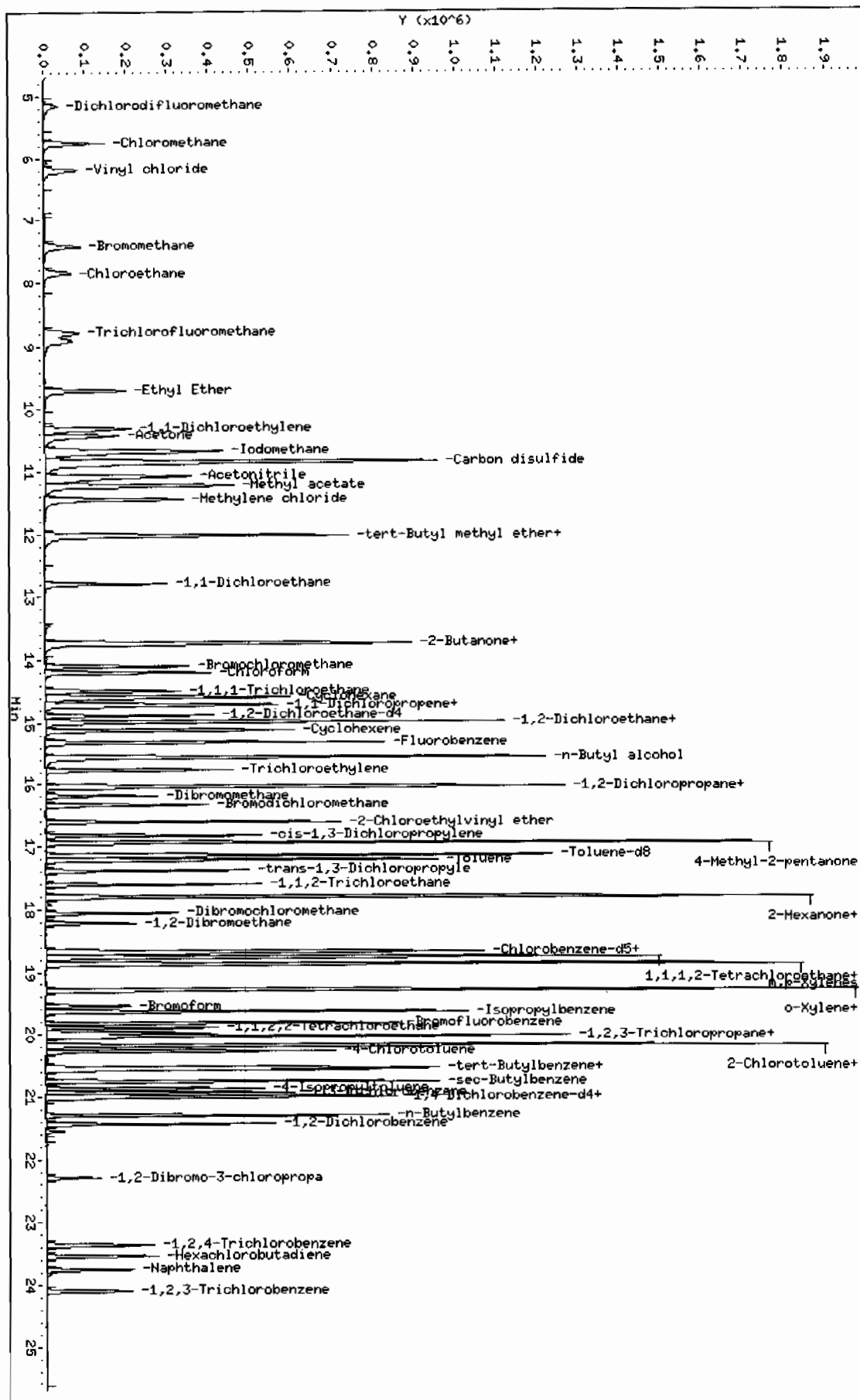
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/NOA7.i/021210v7/79517.d
 Date: 12-FEB-2010 21:16
 Client ID: REIS-10-8304HS
 Sample Info: 11202040702195215011\NOA7.11
 Column phase: DB-624

Instrument: NOA7.i
 Operator: AX01
 Column diameter: 0.25

/chem/NOA7.i/021210v7/79517.d



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 1202040703	Date Received: 02/05/2010 09:00	%Moisture: 20.3
Client Sample: QC for batch 952148	Client: LANL010	Project: QC
Client ID: RE15-10-8304PSD	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952150	Inst: VOA7.I	Dilution: 1
Run Date: 02/12/2010 21:51	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/12/2010 15:20	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7y518.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane		45.7	ug/kg	0.427	1.26
74-87-3	Chloromethane		58.1	ug/kg	0.377	1.26
75-01-4	Vinyl chloride		68.8	ug/kg	0.377	1.26
74-83-9	Bromomethane		55.0	ug/kg	0.377	1.26
75-00-3	Chloroethane		52.9	ug/kg	0.377	1.26
75-69-4	Trichlorofluoromethane		48.5	ug/kg	0.377	1.26
67-64-1	Acetone		84.0	ug/kg	2.08	6.28
75-35-4	1,1-Dichloroethylene		48.8	ug/kg	0.377	1.26
74-88-4	Iodomethane		201	ug/kg	2.01	6.28
75-09-2	Methylene chloride		55.1	ug/kg	2.51	6.28
75-15-0	Carbon disulfide		248	ug/kg	1.57	6.28
156-60-5	trans-1,2-Dichloroethylene		47.9	ug/kg	0.377	1.26
75-34-3	1,1-Dichloroethane		52.3	ug/kg	0.377	1.26
78-93-3	2-Butanone		127	ug/kg	1.88	6.28
156-59-2	cis-1,2-Dichloroethylene		49.9	ug/kg	0.377	1.26
594-20-7	2,2-Dichloropropane		54.8	ug/kg	0.377	1.26
67-66-3	Chloroform		48.3	ug/kg	0.377	1.26
74-97-5	Bromochloromethane		50.6	ug/kg	0.414	1.26
71-55-6	1,1,1-Trichloroethane		48.5	ug/kg	0.377	1.26
563-58-6	1,1-Dichloropropene		47.1	ug/kg	0.377	1.26
56-23-5	Carbon tetrachloride		46.2	ug/kg	0.377	1.26
107-06-2	1,2-Dichloroethane		49.3	ug/kg	0.377	1.26
71-43-2	Benzene		48.2	ug/kg	0.377	1.26
79-01-6	Trichloroethylene		46.2	ug/kg	0.414	1.26
78-87-5	1,2-Dichloropropane		52.6	ug/kg	0.377	1.26
75-27-4	Bromodichloromethane		46.6	ug/kg	0.377	1.26
74-95-3	Dibromomethane		47.1	ug/kg	0.377	1.26
108-10-1	4-Methyl-2-pentanone		254	ug/kg	1.57	6.28
10061-01-5	cis-1,3-Dichloropropylene		36.7	ug/kg	0.377	1.26
108-88-3	Toluene		54.1	ug/kg	0.377	1.26
10061-02-6	trans-1,3-Dichloropropylene		42.7	ug/kg	0.377	1.26
79-00-5	1,1,2-Trichloroethane		54.3	ug/kg	0.377	1.26
591-78-6	2-Hexanone	E	134	ug/kg	1.88	6.28
142-28-9	1,3-Dichloropropane		54.4	ug/kg	0.377	1.26
127-18-4	Tetrachloroethylene		49.9	ug/kg	0.377	1.26
124-48-1	Dibromochloromethane		48.2	ug/kg	0.377	1.26
106-93-4	1,2-Dibromoethane		44.9	ug/kg	0.377	1.26
108-90-7	Chlorobenzene		47.5	ug/kg	0.377	1.26

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 1202040703	Date Received: 02/05/2010 09:00	%Moisture: 20.3
Client Sample: QC for batch 952148	Client: LANL010	Project: QC
Client ID: RE15-10-8304PSD	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 952150	Inst: VOA7.1	Dilution: 1
Run Date: 02/12/2010 21:51	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 02/12/2010 15:20	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7y518.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene		49.0	ug/kg	0.377	1.26
179601-23-1	m,p-Xylenes		96.4	ug/kg	0.377	2.51
95-47-6	o-Xylene		51.7	ug/kg	0.377	1.26
100-42-5	Styrene		41.1	ug/kg	0.377	1.26
75-25-2	Bromoform		55.3	ug/kg	0.377	1.26
79-34-5	1,1,2,2-Tetrachloroethane		64.5	ug/kg	0.377	1.26
96-18-4	1,2,3-Trichloropropane		58.5	ug/kg	0.377	1.26
108-86-1	Bromobenzene		50.4	ug/kg	0.377	1.26
103-65-1	n-Propylbenzene		59.8	ug/kg	0.377	1.26
95-49-8	2-Chlorotoluene		59.1	ug/kg	0.377	1.26
98-82-8	Isopropylbenzene		67.3	ug/kg	0.377	1.26
108-67-8	1,3,5-Trimethylbenzene		64.6	ug/kg	0.377	1.26
106-43-4	4-Chlorotoluene		48.4	ug/kg	0.377	1.26
98-06-6	tert-Butylbenzene		63.9	ug/kg	0.377	1.26
95-63-6	1,2,4-Trimethylbenzene		55.5	ug/kg	0.377	1.26
135-98-8	sec-Butylbenzene		61.1	ug/kg	0.377	1.26
99-87-6	4-Isopropyltoluene		30.8	ug/kg	0.377	1.26
541-73-1	1,3-Dichlorobenzene		42.1	ug/kg	0.377	1.26
106-46-7	1,4-Dichlorobenzene		42.6	ug/kg	0.377	1.26
104-51-8	n-Butylbenzene		49.4	ug/kg	0.377	1.26
96-12-8	1,2-Dibromo-3-chloropropane		47.2	ug/kg	0.377	1.26
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.28	ug/kg	2.01	6.28
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane		53.9	ug/kg	0.377	1.26
95-50-1	1,2-Dichlorobenzene		41.5	ug/kg	0.377	1.26

Data File: /chem/VOA7.i/021210v7/7y518.d
Report Date: 22-Feb-2010 07:10

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GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA7.i/021210v7/7y518.d
Lab Smp Id: 1202040703 Client Smp ID: RE15-10-8304MSD
Inj Date : 12-FEB-2010 21:51
Operator : AX01 Inst ID: VOA7.i
Smp Info : |1202040703|952150|1|VOAF|1|
Misc Info : LANL 5g N/A MSD 246330002
Comment :
Method : /chem/VOA7.i/021210v7/VOA7-8260B-020210.m
Meth Date : 22-Feb-2010 06:51 ale01592 Quant Type: ISTD
Cal Date : 03-FEB-2010 00:25 Cal File: 7x216.d
Als bottle: 18 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.sub
Target Version: 3.50
Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	20.32590	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 51 Fluorobenzene	96	15.316	15.317	(1.000)	771290	50.0000
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	506147	50.0000
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992	(1.000)	192541	50.0000
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	323885	45.8470
\$ 64 Toluene-d8	98	17.144	17.134	(0.918)	847728	56.8072
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	292678	58.3695
4 Dichlorodifluoromethane	85	5.147	5.148	(0.336)	119849	36.3933
5 Chloromethane	50	5.771	5.757	(0.377)	301338	46.2538
6 Vinyl chloride	62	6.202	6.188	(0.405)	259894	54.8270
7 Bromomethane	94	7.428	7.419	(0.485)	146406	43.8135
8 Chloroethane	64	7.855	7.835	(0.513)	150645	42.1212
9 Trichlorofluoromethane	101	8.799	8.789	(0.574)	234265	38.6771

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							(ug/l)	(ug/Kg)
=====	----	--	-----	-----	-----	-----	-----	
13 Acetone	43	10.423	10.413	(0.681)	379060	66.9277	84.0	
14 1,1-Dichloroethylene	96	10.322	10.302	(0.674)	146073	38.8429	48.8	
102 1,4-Dichlorobenzene	146	21.022	21.012	(1.001)	187340	33.9175	42.6	
16 Iodomethane	142	10.677	10.667	(0.697)	1069276	160.315	201	
22 Methylene chloride	86	11.449	11.439	(0.747)	138323	43.9121	55.1	
19 Carbon disulfide	76	10.840	10.840	(0.708)	2472801	197.244	248	
25 trans-1,2-Dichloroethylene	61	12.027	12.027	(0.785)	290162	38.1823	47.9	
28 1,1-Dichloroethane	63	12.799	12.799	(0.836)	417459	41.6723	52.3	
31 2-Butanone	43	13.723	13.723	(0.896)	613265	101.455	127	
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	340723	39.7871	49.9	
100 1,3-Dichlorobenzene	146	20.930	20.931	(0.997)	194131	33.5569	42.1	
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	166156	43.6659	54.8	
38 Chloroform	83	14.190	14.190	(0.926)	331033	38.4617	48.3	
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	190584	33.0346	41.5	
37 Bromochloromethane	49	14.088	14.088	(0.920)	252968	40.3393	50.6	
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	247821	38.6616	48.5	
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	229236	37.5230	47.1	
45 Carbon tetrachloride	117	14.728	14.728	(0.962)	191325	36.7760	46.2	
47 1,2-Dichloroethane	62	14.981	14.982	(0.978)	324056	39.2412	49.2	
48 Benzene	78	14.981	14.982	(0.978)	691341	38.4177	48.2	
53 Trichloroethylene	95	15.773	15.763	(1.030)	164429	36.7878	46.2	
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	239737	41.8920	52.6	
59 Bromodichloromethane	83	16.332	16.332	(1.066)	263331	37.1634	46.6	
58 Dibromomethane	93	16.179	16.180	(1.056)	121561	37.5231	47.1	
63 4-Methyl-2-pentanone	58	16.941	16.941	(0.908)	484676	202.468	254	
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	253019	29.2034	36.6	
65 Toluene	92	17.215	17.215	(0.922)	389134	43.1322	54.1	
67 trans-1,3-Dichloropropylene	75	17.387	17.388	(0.931)	221906	34.0507	42.7	
68 1,1,2-Trichloroethane	83	17.611	17.611	(0.943)	148391	43.2953	54.3	
69 2-Hexanone	43	17.804	17.794	(0.954)	747180	106.835	134 (A)	
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	304221	43.3092	54.4	
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	103568	39.7836	49.9	
72 Dibromochloromethane	129	18.057	18.058	(0.967)	161635	38.4303	48.2	
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	145104	35.7823	44.9	
76 Chlorobenzene	112	18.697	18.697	(1.002)	356045	37.8440	47.5	
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	149595	42.9233	53.9	
78 Ethylbenzene	91	18.768	18.758	(1.005)	690431	39.0586	49.0	
79 m,p-Xylenes	106	18.870	18.870	(1.011)	492812	76.7702	96.4	
80 o-Xylene	106	19.286	19.286	(1.033)	280652	41.1645	51.7	
81 Styrene	104	19.286	19.286	(1.033)	370071	32.7511	41.1	
82 Bromoform	173	19.540	19.540	(0.931)	90482	44.0425	55.3	
87 1,1,2,2-Tetrachloroethane	83	19.885	19.885	(0.947)	211133	51.4245	64.5	
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	46196	46.5896	58.5	
90 Bromobenzene	156	20.017	20.017	(0.954)	121126	40.1403	50.4	
91 n-Propylbenzene	91	20.027	20.027	(0.954)	727615	47.6551	59.8	
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	512758	47.0701	59.1	
83 Isopropylbenzene	105	19.631	19.631	(0.935)	635358	53.6517	67.3	

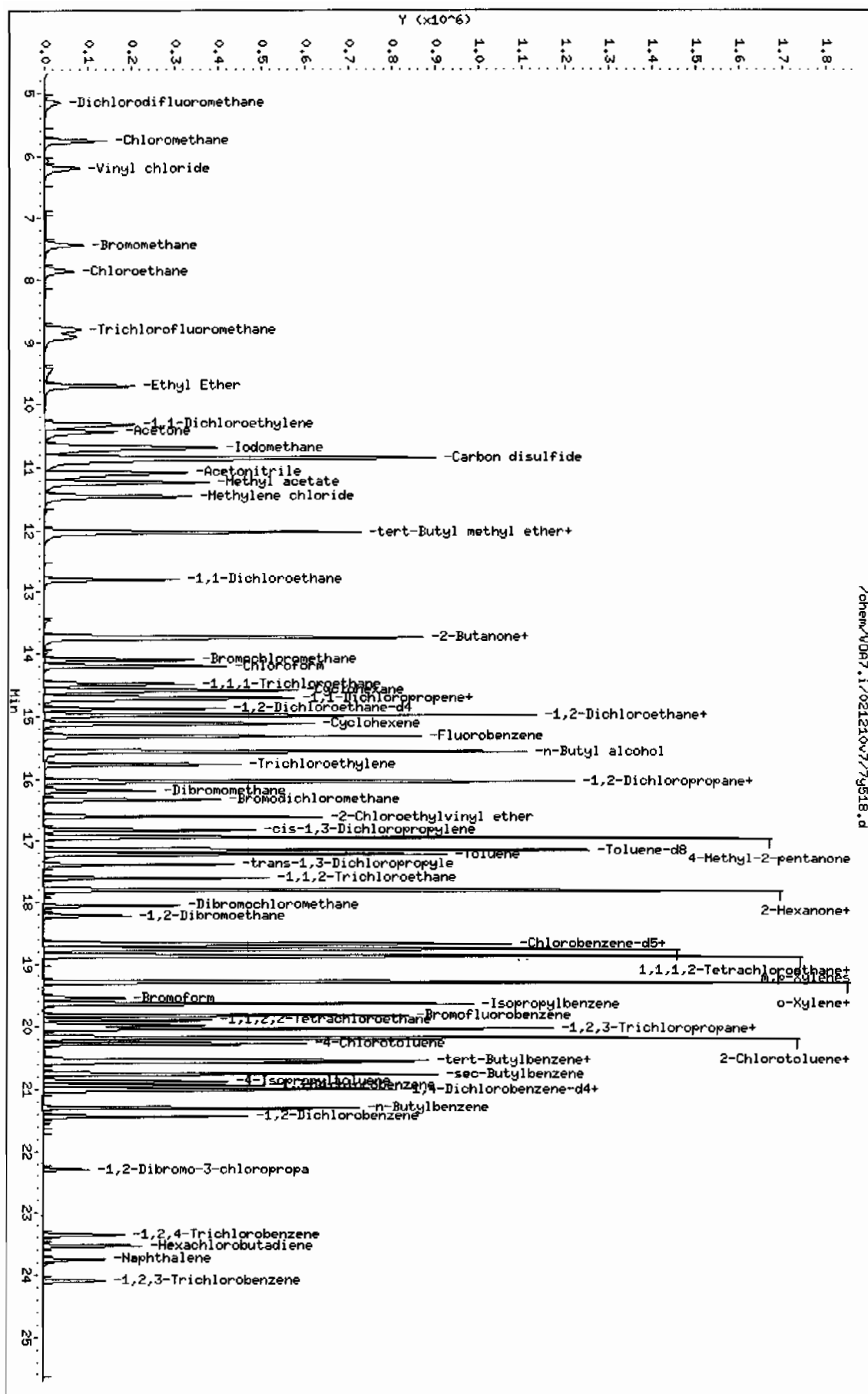
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	515097	51.4664	64.6
94 4-Chlorotoluene	91	20.271	20.271	(0.966)	381283	38.5559	48.4
95 tert-Butylbenzene	119	20.535	20.525	(0.978)	469877	50.9115	63.9
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	463390	44.2499	55.5
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	634254	48.6859	61.1
99 4-Isopropyltoluene	119	20.859	20.860	(0.994)	240804	24.5033	30.8
104 n-Butylbenzene	91	21.296	21.296	(1.014)	429143	39.3330	49.4
107 1,2-Dibromo-3-chloropropane	157	22.301	22.291	(1.062)	27140	37.6013	47.2

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: /chem/V007.1/021210v7/79518.d
 Date: 12-FEB-2010 21:51
 Client ID: RE45-10-8304HSD
 Sample Info: 11202040703196215011V00F111
 Column phase: DB-624

Instrument: V007.1
 Operator: AXDL
 Column diameter: 0.25



Miscellaneous Data

Date: 2/2/2010 Method 8260B/624 Operator: AXO1
REVIEWED BY: _____
DATE: _____
Daily Instrument Readings: _____
Multiplier Voltage: 1675

CALIBRATION & CC INFORMATION:

Initial Calibration Date: 2/2/2010

(See pg. 19 for ICAL Std. Sol. Ids)

NaHSO4 lot # N/A

CI test lot # N/A

Sequence Number: 020210V7

Daily Standard

Solution ID#

LONG ICV W7VM100202-17

IS UVM100114-01

SS UVM100114-02

SHORT ICV W7VM100202-18

BFB UVM100114-02

Volume Added for Purge (ul)

Blk/ Smp/ CCV LCS BFB

5+5

1

1

1

5+5

1

Purge Amount

5 Water Purge Vol:

N/A Soil Purge Wt.

N/A Mid level ext. MeOH Vol:

N/A u/

N/A 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 w or s	Analyst	CI test (Y/N)	Acceptable (O/X)	Comments
2 Feb 2010	15:44	7X201.D	UVM100114-02	GEL	BFB	5mL	1	N/A	10	w	AXO1	N/A	O	UVM100106-02B/UVM100202-02A
2 Feb 2010	16:19	7X202.D	W7VM100202-01	GEL	VSTD001	5mL	1	N/A	11	w	AXO1	N/A	O	UVM100106-03B/UVM100202-03A
2 Feb 2010	16:53	7X203.D	W7VM100202-02	GEL	VSTD002	5mL	1	N/A	12	w	AXO1	N/A	O	UVM100106-04B/UVM100202-04A
2 Feb 2010	17:27	7X204.D	W7VM100202-03	GEL	VSTD005	5mL	1	N/A	13	w	AXO1	N/A	O	UVM100106-05B/UVM100202-05A
2 Feb 2010	18:00	7X205.D	W7VM100202-04	GEL	VSTD010	5mL	1	N/A	14	w	AXO1	N/A	O	UVM100106-06B/UVM100202-06A
2 Feb 2010	18:34	7X206.D	W7VM100202-05	GEL	VSTD020	5mL	1	N/A	15	w	AXO1	N/A	O	UVM100106-07B/UVM100202-07A
2 Feb 2010	19:08	7X207.D	W7VM100202-06	GEL	VSTD050	5mL	1	N/A	16	w	AXO1	N/A	O	UVM100106-08B/UVM100202-08A
2 Feb 2010	19:43	7X208.D	W7VM100202-07	GEL	VSTD100	5mL	1	N/A	17	w	AXO1	N/A	O	UVM100106-01B/UVM100202-01A
2 Feb 2010	20:19	7X209.D	120200-0000	GEL	BLANK	5mL	1	N/A	18	w	AXO1	N/A	X	UVM100118-01/UVM100125-01B
2 Feb 2010	20:54	7X210.D	W7VM100202-08	GEL	VSTD0005	5mL	1	N/A	19	w	AXO1	N/A	O	UVM100118-02/UVM100125-02B
2 Feb 2010	21:29	7X211.D	W7VM100202-09	GEL	VSTD005S	5mL	1	N/A	20	w	AXO1	N/A	O	UVM100118-03/UVM100125-03B
2 Feb 2010	22:03	7X212.D	W7VM100202-10	GEL	VSTD010S	5mL	1	N/A	21	w	AXO1	N/A	O	UVM100118-04/UVM100125-04B
2 Feb 2010	22:39	7X213.D	W7VM100202-11	GEL	VSTD025S	5mL	1	N/A	22	w	AXO1	N/A	O	UVM100118-05/UVM100125-05B
2 Feb 2010	23:14	7X214.D	W7VM100202-12	GEL	VSTD050S	5mL	1	N/A	23	w	AXO1	N/A	O	UVM100118-06/UVM100125-06B
2 Feb 2010	23:49	7X215.D	W7VM100202-13	GEL	VSTD100S	5mL	1	N/A	24	w	AXO1	N/A	O	UVM100118-07/UVM100125-07B
2 Feb 2010	00:25	7X216.D	W7VM100202-14	GEL	VSTD250S	5mL	1	N/A	25	w	AXO1	N/A	O	UVM100126-02A/UVM100202-01
3 Feb 2010	01:00	7X217.D	W7VM100202-15	GEL	VSTD500S	5mL	1	N/A	26	w	AXO1	N/A	O	UVM100126-01A/UVM100202-01
3 Feb 2010	01:34	7X218.D	120200-0000	GEL	BLANK	5mL	1	N/A	27	w	AXO1	N/A	X	UVM100118-08A/UVM100125-08A
3 Feb 2010	02:08	7X219.D	W7VM100202-16	GEL	ICV	5mL	1	N/A	28	w	AXO1	N/A	X	variance
3 Feb 2010	02:43	7X220.D	W7VM100202-17	GEL	ICV	5mL	1	N/A	29	w	AXO1	N/A	O	UVM100118-08A/UVM100125-08A
3 Feb 2010	03:18	7X221.D	W7VM100202-18	GEL	SICV	5mL	1	N/A	30	w	AXO1	N/A	O	
3 Feb 2010	03:53	7X222.D	120200-0000	GEL	BLANK	5mL	1	N/A	31	w	AXO1	N/A	X	

ORGANIC RUN LOG - INSTRUMENT ID#VOA7

Date: 2/11/2010 Method 8260B/624 Operator: AXO1
REVIEWED BY: _____
DATE: _____
Daily Instrument Readings: _____
Multiplier Voltage: 1824

CALIBRATION & CC INFORMATION:

Initial Calibration Date: 2/2/2010
Daily Standard Volume Added for Purge (ul) MS/ Bk/ Smp/ GC/ LCS BFB
Solution ID#
CCV W7VM100211-06 5+5
IS UVM100203-01 1 1 1
SS UVM100114-02 1 1 1
LCS/MS W7VM100211-07/08 5+5
BFB UVM100114-02 1
SHORT W7VM100211-09/10 5+5
DHEC N/A
(See pg. 19 for ICAI Std. Sol. Ids)
NaHSO4 lot # N/A
CI test lot # 81710
Sequence Number: 021110V7pm

Purge Amount:
5 Water Purge Vol:
5g Soil Purge Wt.
N Mid level ext. MeOH Vol:
N/A ul
N/A 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 w or s	Analyst	CI test (Y/N)	Acceptable (O/X)	Comments
2/11/2010	22:10	7Y424.D	W7VM100211-06	GEL	BFB/CCV	5mL	1	N/A	24	w	AXO1	N/A	O	UVM100106-07C/UVM100202-07B
2/11/2010	22:46	7Y425.D	W7VM100211-07	GEL	LCS	5mL	1	N/A	25	w	AXO1	N/A	O	UVM100126-01C/UVM100210-01
2/11/2010	23:21	7Y426.D	W7VM100211-08	GEL	LCS	5g	1	N/A	26	s	AXO1	N/A	O	UVM100126-01C/UVM100210-01
2/11/2010	23:57	7Y427.D	W7VM100211-09	GEL	SHORT/SLOS	5mL	1	N/A	27	w	AXO1	N/A	O	UVM100118-08B/UVM100125-08B
2/12/2010	0:33	7Y428.D	W7VM100211-10	GEL	SLCS	5g	1	N/A	28	s	AXO1	N/A	O	UVM100118-08B/UVM100125-08B
2/12/2010	1:08	7Y429.D	120203-0000	GEL	BLANK	5mL	1	N/A	29	w	AXO1	N/A	O	
2/12/2010	1:42	7Y430.D	120203-0000	GEL	BLANK	5g	1	N/A	30	s	AXO1	N/A	O	
2/12/2010	2:17	7Y431.D	246330001	LANL	952150	5g	1	N/A	31	s	AXO1	N/A	O	
2/12/2010	2:52	7Y432.D	246330002	LANL	952150	5g	1	N/A	32	s	AXO1	N/A	X	RR for IS, SS failure see 021210v7
2/12/2010	3:28	7Y433.D	246330003	LANL	952150	5g	1	N/A	33	s	AXO1	N/A	X	RR for IS, SS failure see 021210v7
2/12/2010	4:03	7Y434.D	246330004	LANL	952150	5g	1	N/A	34	s	AXO1	N/A	O	
2/12/2010	4:37	7Y435.D	246330005	LANL	952150	5g	1	N/A	35	s	AXO1	N/A	O	
2/12/2010	5:11	7Y436.D	246330006	LANL	952150	5g	1	N/A	36	s	AXO1	N/A	O	
2/12/2010	5:46	7Y437.D	246330007	LANL	952150	5g	1	N/A	37	s	AXO1	N/A	O	
2/12/2010	6:22	7Y438.D	246330008	LANL	952150	5g	1	N/A	38	s	AXO1	N/A	O	
2/12/2010	6:57	7Y439.D	246330009	LANL	952150	5g	1	N/A	39	s	AXO1	N/A	O	
2/12/2010	7:33	7Y440.D	246330010	LANL	952150	5g	1	N/A	40	s	AXO1	N/A	X	RR for IS failure see 021210v7
2/12/2010	8:08	7Y441.D	1202040702	LANL	952150	5g	1	N/A	41	s	AXO1	N/A	X	MS 246330002 Not Spiked
2/12/2010	8:43	7Y442.D	1202040703	LANL	952150	5g	1	N/A	42	s	AXO1	N/A	X	MSD 246330002 Not Spiked
2/12/2010	9:19	7Y443.D	1202040680	SNLS	952140	5mL	1	pH2	43	w	AXO1	N	O	MS 245946001
2/12/2010	9:54	7Y444.D	1202040681	SNLS	952140	5mL	1	pH2	44	w	AXO1	N	O	MSD 245946001
2/12/2010	10:29	7Y445.D	1202040698	ORNL	952147	0.5mL	10	N/A	45	w	AXO1	N/A	X	MS 246097001 Out of Tune
2/12/2010	11:05	7Y446.D	1202040699	ORNL	952147	0.5mL	10	N/A	46	w	AXO1	N/A	X	MSD 246097001 Out of Tune

ORGANIC RUN LOG - INSTRUMENT ID#VOA7

Date: 2/12/2010 Method 8260B/624 Operator: AXO1
REVIEWED BY: _____
DATE: _____
Daily Instrument Readings: Multiplier Voltage: 1824

HARDWARE CONFIGURATION & METHOD CONDITIONS SUMMARY No# 1

CALIBRATION & CC INFORMATION:

Initial Calibration Date: 2/2/2010
(See pg. 19 for ICAI Std. Sol. Ids)
NaHSO4 lot # N/A
Cl test lot # 81710
Sequence Number: 021210V7

Daily Standard Volume Added for Purge (ul) MS/
Bik/ LCS BFB
Solution ID# CCV W7VM100212-01 5+5
IS UVM100203-01 1 1 1
SS UVM100114-02 1 1 1
LCS/MS W7VM100212-07/08 5+5
BFB UVM100114-02 1
SHORT W7VM100212-04/05 5+5
DHEC N/A

Purge Amount
5 Water Purge Vol:
5g Soil Purge Wt.
N/A Mid level ext. MeOH Vol.
N/A ul
N/A Methanol Lot #
x Heated Purge

Analysis Date	Time	Data File	Lab Sample ID	Client	Batch #	Wt.(g) or Vol.(ml/u)	Dil. Factor	pH	AS Slot #	Matrix w or s	Analyst	Cl test Acceptable (Y/N)	Comments
2/12/2010 12:00		7Y501.D	120200-....	GEL	RINSE	5mL	1	N/A	1	w	AXO1	N/A	X
2/12/2010 12:35		7Y502.D	W7VM100212-01	GEL	BFB/CCV	5mL	1	N/A	2	w	AXO1	N/A	O
2/12/2010 13:10		7Y503.D	W7VM100212-02	GEL	LCS	5mL	1	N/A	3	w	AXO1	N/A	X
2/12/2010 13:44		7Y504.D	W7VM100212-03	GEL	LCS	5g	1	N/A	4	s	AXO1	N/A	X
2/12/2010 14:17		7Y505.D	W7VM100212-04	GEL	SHORT/S LCS	5mL	1	N/A	5	w	AXO1	N/A	O
2/12/2010 14:51		7Y506.D	W7VM100212-07	GEL	LCS	5mL	1	N/A	6	w	AXO1	N/A	O
2/12/2010 15:26		7Y507.D	W7VM100212-08	GEL	LCS	5g	1	N/A	7	s	AXO1	N/A	O
2/12/2010 16:01		7Y508.D	W7VM100212-05	GEL	SLOS	5g	1	N/A	8	s	AXO1	N/A	O
2/12/2010 16:36		7Y509.D	120203-....	GEL	BLANK	5mL	1	N/A	9	w	AXO1	N/A	O
2/12/2010 17:10		7Y510.D	120203-....	GEL	BLANK	5g	1	N/A	10	s	AXO1	N/A	O
2/12/2010 17:45		7Y511.D	246330002	LANL	952150	5g	1	N/A	11	s	AXO1	N/A	O
2/12/2010 18:20		7Y512.D	246330003	LANL	952150	5g	1	N/A	12	s	AXO1	N/A	X
2/12/2010 18:56		7Y513.D	246330010	LANL	952150	5g	1	N/A	13	s	AXO1	N/A	O
2/12/2010 19:31		7Y514.D	246665001	ORNL	952795	5mL	1	pH6	14	w	AXO1	N	O
2/12/2010 20:06		7Y515.D	246665006	ORNL	952795	5mL	1	pH6	15	w	AXO1	N	O
2/12/2010 20:41		7Y516.D	246665007	ORNL	952795	5mL	1	pH6	16	w	AXO1	N	O
2/12/2010 21:16		7Y517.D	1202040702	LANL	952150	5g	1	N/A	17	s	AXO1	N/A	O
2/12/2010 21:51		7Y518.D	1202040703	LANL	952150	5g	1	N/A	18	s	AXO1	N/A	O
2/12/2010 22:26		7Y519.D	1202040698	ORNL	952147	0.5mL	10	N/A	19	w	AXO1	N/A	O
2/12/2010 23:01		7Y520.D	1202040699	ORNL	952147	0.5mL	10	N/A	20	w	AXO1	N/A	O
2/12/2010 23:41		7Y521.D	1202042179	ORNL	952795	5mL	1	pH6	21	w	AXO1	N	X
2/13/2010 0:20		7Y522.D	1202042180	ORNL	952795	5mL	1	pH6	22	w	AXO1	N	X

DATA EXCEPTION REPORT

Mo. Day Yr. 22-FEB-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: VOA GC/MS	Test / Method: SW846 8260B	Matrix Type: Solid	Client Code: LANL
Batch ID: 952150	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 246330(10-1567)			
Application Issues: Failed Recovery for Surrogate or Tracer Other			
Specification and Requirements Exception Description: 1. The following sample did not meet acceptance criteria for surrogate recovery: 246330003 2. The following sample did not meet recovery acceptance criteria for internal standard response: 246330003		DER Disposition: 1-2 LANL sample 246330003 did not meet recovery acceptance criteria for internal standards and surrogates. Sample re-analysis confirmed possible matrix interference.	

Originator's Name:

Alex Olson

22-FEB-10

Data Validator/Group Leader:

Erin Haubert

25-FEB-10

GC/MS Semivolatile Analysis

**Semi-Volatile Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1567**

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: 950447
Prep Batch Number: 950443

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8270C:

Sample ID	Client ID
246330002	RE15-10-8304
246330003	RE15-10-8305
246330004	RE15-10-8306
246330005	RE15-10-8307
246330006	RE15-10-8309
246330007	RE15-10-8308
246330008	RE15-10-8301
246330009	RE15-10-8300
246330010	RE15-10-8324
1202036798	Method Blank (MB)
1202036799	246316001(RE16-10-10123) Matrix Spike (MS)
1202036800	246316001(RE16-10-10123) Matrix Spike Duplicate (MSD)
1202036801	Laboratory Control Sample (LCS)

The samples in this batch 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 inverted 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

The following sample failed surrogate recovery in this batch : 246330009 (RE15-10-8300). The sample was re-extracted out of holding, analyzed, and passed surrogate recovery. Both sets of data were reported.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

The non-SDG sample 246316001(RE16-10-10123) was selected for analysis as the spike and matrix spike duplicate.

Matrix Spike (MS) Recovery Statement

The MS recoveries were not within the acceptance limits. The failures confirmed in the MSD and were attributed to matrix interference.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries were not within the acceptance limits. The failures confirmed in the MS and were attributed to matrix interference.

MS/MSD Relative Percent Difference (RPD) Statement

The relative percent differences (RPD) were not within the acceptance limits. The failures confirmed in the MS and were attributed to matrix interference.

Internal Standard (ISTD) Acceptance

The internal standard responses were within the required acceptance criteria for all samples and QC.

Technical Information**Holding Time Specifications**

All samples in this batch 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

The following sample failed surrogate recovery in this batch : 246330009 (RE15-10-8300). The sample was re-extracted out of holding, analyzed, and passed surrogate recovery. Both sets of data were reported.

Miscellaneous Information**Data Exception (DER) Documentation**

The following DER was generated for this SDG: 793727. It is located in the Miscellaneous Section of the data report.

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 batch.

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 batch 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
MSD6.I	HP Mass Spectrometer	HP6890/HP5973	DB-5MS	25m x 0.20mm x 0.33 um (5% Phenylmethylpolysiloxane)

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:	954451
Prep Batch Number:	954449

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8270C:

Sample ID	Client ID
246330009	RE15-10-8300
1202046006	Method Blank (MB)
1202046007	Laboratory Control Sample (LCS)
1202046052	247033002(WST15-10-8940) Matrix Spike (MS)
1202046053	247033002(WST15-10-8940) Matrix Spike Duplicate (MSD)

The samples in this batch 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 batch. 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 batch met the acceptance criteria.

Surrogate Recoveries

The surrogate recoveries for the SDG associated samples were acceptable.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

The non-SDG sample 247033002 (WST15-10-8940) was selected for analysis as the matrix spike and matrix spike duplicate. Please see the associated raw data files located in the Miscellaneous Section of the data report.

Matrix Spike (MS) Recovery Statement

The MS recoveries were not within the acceptance limits. The failures confirmed in the MSD and were attributed to matrix interference.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries were not within the acceptance limits. The failures confirmed in the MS and were attributed to matrix interference.

MS/MSD Relative Percent Difference (RPD) Statement

The relative percent differences (RPD) were not within the acceptance limits. The failures were attributed to matrix interference.

Internal Standard (ISTD) Acceptance

The internal standard responses were within the required acceptance criteria for all samples and QC.

Technical Information**Holding Time Specifications**

The following sample was re-extracted out of holding in this batch due to surrogate failures in the original extraction batch: 246330009 (RE15-10-8300). Since the failures did not confirm, both sets of results were reported. 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

The following sample was re-extracted out of holding in this batch due to surrogate failures in the original extraction batch: 246330009 (RE15-10-8300). Since the failures did not confirm, both sets of results were reported.

Miscellaneous Information**Data Exception (DER) Documentation**

The following DER was generated for this SDG: 793250. It is located in the Miscellaneous Section of the data report.

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.

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 batch 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: Dan Berchman Date: 3-4-10

Roadmap for LANL 10-1567 SVOA

This roadmap was analyzed by nat00999 on 02-23-2010, 11:37.

This roadmap was reviewed by jcb on 02-23-2010, 16:39.

Sample

exclude	manual	datafile	smplid	injdte	injtme	sublist	clientid	dilution	batchid	comment
<input type="checkbox"/>	N	/chem/MSD6.i/s021610.b/s6b1620.d	246330002	16-FEB-2010	19:37	10-1567.sub	RE15-10-8304	1	950447	
<input type="checkbox"/>	N	/chem/MSD6.i/s021610.b/s6b1621.d	246330003	16-FEB-2010	20:06	10-1567.sub	RE15-10-8305	1	950447	
<input type="checkbox"/>	N	/chem/MSD6.i/s021610.b/s6b1622.d	246330004	16-FEB-2010	20:33	10-1567.sub	RE15-10-8306	1	950447	
<input type="checkbox"/>	N	/chem/MSD6.i/s021610.b/s6b1623.d	246330005	16-FEB-2010	21:01	10-1567.sub	RE15-10-8307	1	950447	
<input type="checkbox"/>	N	/chem/MSD6.i/s021610.b/s6b1624.d	246330006	16-FEB-2010	21:28	10-1567.sub	RE15-10-8309	1	950447	
<input type="checkbox"/>	N	/chem/MSD6.i/s021610.b/s6b1625.d	246330007	16-FEB-2010	21:57	10-1567.sub	RE15-10-8308	1	950447	
<input type="checkbox"/>	N	/chem/MSD6.i/s021610.b/s6b1626.d	246330008	16-FEB-2010	22:25	10-1567.sub	RE15-10-8301	1	950447	
<input type="checkbox"/>	N	/chem/MSD6.i/s021610.b/s6b1627.d	246330009	16-FEB-2010	22:53	10-1567.sub	RE15-10-8300	1	950447	USE - failed surf - RX OK - RX passed on MSD4
<input type="checkbox"/>	N	/chem/MSD6.i/s021610.b/s6b1628.d	246330010	16-FEB-2010	23:21	10-1567.sub	RE15-10-8324	1	950447	
<input type="checkbox"/>	N	/chem/MSD4.i/s021810a.b/s4b1842.d	246330009	19-FEB-2010	01:52	10-1567.sub	RE15-10-8300RE	1	954451	passes - rx of s6b1627

QC Sample

exclude	manual	datafile	smplid	sampletype	injdte	injtme	sublist	clientid	dilution	batchid	comment
<input type="checkbox"/>	N	/chem/MSD6.i/s021610.b/s6b1610-1.d	1202036798	mb	16-FEB-2010	14:55	10-1567.sub	SBLK01	1	950447	
<input type="checkbox"/>	N	/chem/MSD6.i/s021610.b/s6b1611-1.d	1202036801	lcs	16-FEB-2010	15:23	10-1567.sub	SBLK01LCS	1	950447	
<input type="checkbox"/>	N	/chem/MSD4.i/s021810a.b/s4b1823-1.d	1202046006	mb	18-FEB-2010	18:52	10-1567.sub	SBLK02	1	954451	
<input type="checkbox"/>	N	/chem/MSD4.i/s021810a.b/s4b1824-4.d	1202046007	lcs	18-FEB-2010	19:14	10-1567.sub	SBLK02LCS	1	954451	

Sample Data Summary

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

SDG Number: 10-1567
Lab Sample ID: 246330009

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAC1
Aliquot: 30.09 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 30.6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8300
Batch ID: 950447
Run Date: 02/16/2010 22:53
Prep Date: 02/09/2010 11:07
Data File: s6b1627.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	479	ug/kg	95.8	479
108-95-2	Phenol	U	479	ug/kg	95.8	479
95-57-8	2-Chlorophenol	U	479	ug/kg	95.8	479
106-46-7	1,4-Dichlorobenzene	U	479	ug/kg	95.8	479
621-64-7	N-Nitrosodipropylamine	U	479	ug/kg	95.8	479
59-50-7	4-Chloro-3-methylphenol	U	479	ug/kg	95.8	479
83-32-9	Acenaphthene	U	47.9	ug/kg	15.8	47.9
121-14-2	2,4-Dinitrotoluene	U	479	ug/kg	47.9	479
100-02-7	4-Nitrophenol	U	479	ug/kg	158	479
87-86-5	Pentachlorophenol	U	479	ug/kg	120	479
129-00-0	Pyrene	U	47.9	ug/kg	14.4	47.9
110-86-1	Pyridine	U	479	ug/kg	95.8	479
62-53-3	Aniline	U	479	ug/kg	144	479
111-44-4	bis(2-Chloroethyl) ether	U	479	ug/kg	95.8	479
541-73-1	1,3-Dichlorobenzene	U	479	ug/kg	95.8	479
100-51-6	Benzyl alcohol	U	479	ug/kg	144	479
95-50-1	1,2-Dichlorobenzene	U	479	ug/kg	95.8	479
108-60-1	bis(2-Chloroisopropyl)ether	U	479	ug/kg	95.8	479
95-48-7	o-Cresol	U	479	ug/kg	95.8	479
65794-96-9	m,p-Cresols	U	479	ug/kg	144	479
67-72-1	Hexachloroethane	U	479	ug/kg	95.8	479
98-95-3	Nitrobenzene	U	479	ug/kg	95.8	479
78-59-1	Isophorone	U	479	ug/kg	95.8	479
88-75-5	2-Nitrophenol	U	479	ug/kg	95.8	479
105-67-9	2,4-Dimethylphenol	U	479	ug/kg	168	479
111-91-1	bis(2-Chloroethoxy)methane	U	479	ug/kg	95.8	479
120-83-2	2,4-Dichlorophenol	U	479	ug/kg	95.8	479
65-85-0	Benzoic acid	U	958	ug/kg	240	958
91-20-3	Naphthalene	U	47.9	ug/kg	14.4	47.9
106-47-8	4-Chloroaniline	U	479	ug/kg	95.8	479
87-68-3	Hexachlorobutadiene	U	479	ug/kg	95.8	479
91-57-6	2-Methylnaphthalene	U	47.9	ug/kg	9.58	47.9
77-47-4	Hexachlorocyclopentadiene	U	479	ug/kg	95.8	479
88-06-2	2,4,6-Trichlorophenol	U	479	ug/kg	95.8	479
95-95-4	2,4,5-Trichlorophenol	U	479	ug/kg	95.8	479
91-58-7	2-Chloronaphthalene	U	47.9	ug/kg	15.8	47.9
88-74-4	2-Nitroaniline	U	479	ug/kg	95.8	479
99-09-2	<i>o</i> -Nitroaniline	U	479	ug/kg	95.8	479
	3-Nitroaniline					

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330009	Date Received: 02/05/2010 09:00	%Moisture: 30.6
Client ID: RE15-10-8300	Client: LANL010	Project: LANL01004
Batch ID: 950447	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/16/2010 22:53	Inst: MSD6.I	Dilution: 1
Prep Date: 02/09/2010 11:07	Analyst: NAG1	Inj. Vol: .5 uL
Data File: s6b1627.d	Aliquot: 30.09 g	Final Volume: 1 mL
	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	479	ug/kg	95.8	479
606-20-2	2,6-Dinitrotoluene	U	479	ug/kg	47.9	479
208-96-8	Acenaphthylene	U	47.9	ug/kg	14.4	47.9
51-28-5	2,4-Dinitrophenol	U	958	ug/kg	182	958
132-64-9	Dibenzofuran	U	479	ug/kg	95.8	479
84-66-2	Diethylphthalate	U	479	ug/kg	95.8	479
86-73-7	Fluorene	U	47.9	ug/kg	14.4	47.9
7005-72-3	4-Chlorophenylphenylether	U	479	ug/kg	95.8	479
534-52-1	2-Methyl-4,6-dinitrophenol	U	479	ug/kg	95.8	479
100-01-6	4-Nitroaniline	U	479	ug/kg	144	479
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	479	ug/kg	95.8	479
122-66-7	Azobenzene	U	479	ug/kg	95.8	479
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	479	ug/kg	95.8	479
118-74-1	Hexachlorobenzene	U	479	ug/kg	95.8	479
85-01-8	Phenanthrene	U	47.9	ug/kg	14.4	47.9
120-12-7	Anthracene	U	47.9	ug/kg	9.58	47.9
84-74-2	Di-n-butylphthalate	U	479	ug/kg	95.8	479
206-44-0	Fluoranthene	U	47.9	ug/kg	14.4	47.9
85-68-7	Butylbenzylphthalate	U	479	ug/kg	95.8	479
56-55-3	Benzo(a)anthracene	U	47.9	ug/kg	14.4	47.9
91-94-1	3,3'-Dichlorobenzidine	U	479	ug/kg	144	479
218-01-9	Chrysene	U	47.9	ug/kg	14.4	47.9
117-81-7	bis(2-Ethylhexyl)phthalate	U	479	ug/kg	95.8	479
117-84-0	Di-n-octylphthalate	U	479	ug/kg	95.8	479
205-99-2	Benzo(b)fluoranthene	U	47.9	ug/kg	14.4	47.9
207-08-9	Benzo(k)fluoranthene	U	47.9	ug/kg	14.4	47.9
50-32-8	Benzo(a)pyrene	U	47.9	ug/kg	14.4	47.9
193-39-5	Indeno(1,2,3-cd)pyrene	U	47.9	ug/kg	14.4	47.9
53-70-3	Dibenzo(a,h)anthracene	U	47.9	ug/kg	14.4	47.9
191-24-2	Benzo(ghi)perylene	U	47.9	ug/kg	14.4	47.9
120-82-1	1,2,4-Trichlorobenzene	U	479	ug/kg	95.8	479

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	302	ug/kg		JA
79-92-5	Camphene	4.17	297	ug/kg	97	NJ

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

Page 3 of 3

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330009	Date Received: 02/05/2010 09:00	%Moisture: 30.6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8300	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.I	Dilution: 1
Run Date: 02/16/2010 22:53	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Aliquot: 30.09 g	Final Volume: 1 mL
Data File: s6b1627.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
470-82-6	Eucalyptol	4.78	301	ug/kg	98	NJ
5655-61-8	Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimeth	6.5	223	ug/kg	97	NJ
	Unknown	10.64	226	ug/kg		J
	Unknown	10.73	315	ug/kg		J
	Unknown	10.78	248	ug/kg		J
5155-70-4	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	12.07	238	ug/kg	95	NJ
112-84-5	13-Docosenamide, (Z)-	13.5	741	ug/kg	96	NJ
593-49-7	Heptacosane	14.1	713	ug/kg	91	NJ
112-95-8	Eicosane	15.34	1140	ug/kg	96	NJ

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330009	Date Received: 02/05/2010 09:00	%Moisture: 30.6
Client ID: RE15-10-8300RE	Client: LANL010	Project: LANL01004
Batch ID: 954451	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/19/2010 01:52	Inst: MSD4.I	Dilution: 1
Prep Date: 02/18/2010 13:52	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4b1842.d	Aliquot: 30.08 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	Uh	479	ug/kg	95.9	479
108-95-2	Phenol	Uh	479	ug/kg	95.9	479
95-57-8	2-Chlorophenol	Uh	479	ug/kg	95.9	479
106-46-7	1,4-Dichlorobenzene	Uh	479	ug/kg	95.9	479
621-64-7	N-Nitrosodipropylamine	Uh	479	ug/kg	95.9	479
59-50-7	4-Chloro-3-methylphenol	Uh	479	ug/kg	95.9	479
83-32-9	Acenaphthene	Uh	47.9	ug/kg	15.8	47.9
121-14-2	2,4-Dinitrotoluene	Uh	479	ug/kg	47.9	479
100-02-7	4-Nitrophenol	Uh	479	ug/kg	158	479
87-86-5	Pentachlorophenol	Uh	479	ug/kg	120	479
129-00-0	Pyrene	Uh	47.9	ug/kg	14.4	47.9
110-86-1	Pyridine	Uh	479	ug/kg	95.9	479
62-53-3	Aniline	Uh	479	ug/kg	144	479
111-44-4	bis(2-Chloroethyl) ether	Uh	479	ug/kg	95.9	479
541-73-1	1,3-Dichlorobenzene	Uh	479	ug/kg	95.9	479
100-51-6	Benzyl alcohol	Uh	479	ug/kg	144	479
95-50-1	1,2-Dichlorobenzene	Uh	479	ug/kg	95.9	479
108-60-1	bis(2-Chloroisopropyl)ether	Uh	479	ug/kg	95.9	479
95-48-7	o-Cresol	Uh	479	ug/kg	95.9	479
65794-96-9	m,p-Cresols	Uh	479	ug/kg	144	479
67-72-1	Hexachloroethane	Uh	479	ug/kg	95.9	479
98-95-3	Nitrobenzene	Uh	479	ug/kg	95.9	479
78-59-1	Isophorone	Uh	479	ug/kg	95.9	479
88-75-5	2-Nitrophenol	Uh	479	ug/kg	95.9	479
105-67-9	2,4-Dimethylphenol	Uh	479	ug/kg	168	479
111-91-1	bis(2-Chloroethoxy)methane	Uh	479	ug/kg	95.9	479
120-83-2	2,4-Dichlorophenol	Uh	479	ug/kg	95.9	479
65-85-0	Benzoic acid	Uh	959	ug/kg	240	959
91-20-3	Naphthalene	Uh	47.9	ug/kg	14.4	47.9
106-47-8	4-Chloroaniline	Uh	479	ug/kg	95.9	479
87-68-3	Hexachlorobutadiene	Uh	479	ug/kg	95.9	479
91-57-6	2-Methylnaphthalene	Uh	47.9	ug/kg	9.59	47.9
77-47-4	Hexachlorocyclopentadiene	Uh	479	ug/kg	95.9	479
88-06-2	2,4,6-Trichlorophenol	Uh	479	ug/kg	95.9	479
95-95-4	2,4,5-Trichlorophenol	Uh	479	ug/kg	95.9	479
91-58-7	2-Chloronaphthalene	Uh	47.9	ug/kg	15.8	47.9
88-74-4	2-Nitroaniline	Uh	479	ug/kg	95.9	479
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	Uh	479	ug/kg	95.9	479

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330009	Date Received: 02/05/2010 09:00	%Moisture: 30.6
Client ID: RE15-10-8300RE	Client: LANL010	Project: LANL01004
Batch ID: 954451	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/19/2010 01:52	Inst: MSD4.1	Dilution: 1
Prep Date: 02/18/2010 13:52	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s4b1842.d	Aliquot: 30.08 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	Uh	479	ug/kg	95.9	479
606-20-2	2,6-Dinitrotoluene	Uh	479	ug/kg	47.9	479
208-96-8	Acenaphthylene	Uh	47.9	ug/kg	14.4	47.9
51-28-5	2,4-Dinitrophenol	Uh	959	ug/kg	182	959
132-64-9	Dibenzofuran	Uh	479	ug/kg	95.9	479
84-66-2	Diethylphthalate	Uh	479	ug/kg	95.9	479
86-73-7	Fluorene	Uh	47.9	ug/kg	14.4	47.9
7005-72-3	4-Chlorophenylphenylether	Uh	479	ug/kg	95.9	479
534-52-1	2-Methyl-4,6-dinitrophenol	Uh	479	ug/kg	95.9	479
100-01-6	4-Nitroaniline	Uh	479	ug/kg	144	479
122-39-4	<i>p</i> -Nitroaniline					
	Diphenylamine	Uh	479	ug/kg	95.9	479
122-66-7	Azobenzene	Uh	479	ug/kg	95.9	479
101-55-3	<i>1,2</i> -Diphenylhydrazine					
	4-Bromophenylphenylether	Uh	479	ug/kg	95.9	479
118-74-1	Hexachlorobenzene	Uh	479	ug/kg	95.9	479
85-01-8	Phenanthrene	Uh	47.9	ug/kg	14.4	47.9
120-12-7	Anthracene	Uh	47.9	ug/kg	9.59	47.9
84-74-2	Di-n-butylphthalate	Uh	479	ug/kg	95.9	479
206-44-0	Fluoranthene	Uh	47.9	ug/kg	14.4	47.9
85-68-7	Butylbenzylphthalate	Uh	479	ug/kg	95.9	479
56-55-3	Benzo(a)anthracene	Uh	47.9	ug/kg	14.4	47.9
91-94-1	3,3'-Dichlorobenzidine	Uh	479	ug/kg	144	479
218-01-9	Chrysene	Uh	47.9	ug/kg	14.4	47.9
117-81-7	bis(2-Ethylhexyl)phthalate	Uh	479	ug/kg	95.9	479
117-84-0	Di-n-octylphthalate	Uh	479	ug/kg	95.9	479
205-99-2	Benzo(b)fluoranthene	Uh	47.9	ug/kg	14.4	47.9
207-08-9	Benzo(k)fluoranthene	Uh	47.9	ug/kg	14.4	47.9
50-32-8	Benzo(a)pyrene	Uh	47.9	ug/kg	14.4	47.9
193-39-5	Indeno(1,2,3-cd)pyrene	Uh	47.9	ug/kg	14.4	47.9
53-70-3	Dibenzo(a,h)anthracene	Uh	47.9	ug/kg	14.4	47.9
191-24-2	Benzo(ghi)perylene	Uh	47.9	ug/kg	14.4	47.9
120-82-1	1,2,4-Trichlorobenzene	Uh	479	ug/kg	95.9	479

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
107-92-6	Butanoic acid	2.6	228	ug/kg	90	NJ
503-74-2	Butanoic acid, 3-methyl-	2.89	212	ug/kg	83	NJ

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

SDG Number: 10-1567
Lab Sample ID: 246330009

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD4.I
Analyst: JMB3
Aliquot: 30.08 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 30.6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8300RE
Batch ID: 954451
Run Date: 02/19/2010 01:52
Prep Date: 02/18/2010 13:52
Data File: s4b1842.d

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
	Unknown Aldol Condensate	2.96	715	ug/kg		J
57-10-3	n-Hexadecanoic acid	7.31	688	ug/kg	97	NJ
	Unknown	7.48	216	ug/kg		J
112-63-0	9,12-Octadecadienoic acid (Z,Z)-, methyl	7.63	196	ug/kg	95	NJ
1000130-81-0	11,13-Dimethyl-12-tetradecen-1-ol acetat	7.72	548	ug/kg	87	NJ
	Unknown	7.75	481	ug/kg		J
1740-19-8	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	8.55	719	ug/kg	97	NJ
301-02-0	9-Octadecenamide, (Z)-	9.35	195	ug/kg	94	NJ
112-95-8	Eicosane	9.7	470	ug/kg	98	NJ
629-94-7	Heneicosane	10.64	659	ug/kg	90	NJ
	Unknown	12.19	253	ug/kg		J
	Unknown	12.82	388	ug/kg		J
	Unknown	13.44	214	ug/kg		J
	Unknown	13.94	200	ug/kg		J

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330008	Date Received: 02/05/2010 09:00	%Moisture: 6
Client ID: RE15-10-8301	Client: LANL010	Project: LANL01004
Batch ID: 950447	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/16/2010 22:25	Inst: MSD6.I	Dilution: 1
Prep Date: 02/09/2010 11:07	Analyst: NAG1	Inj. Vol: .5 uL
Data File: s6b1626.d	Aliquot: 30.01 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
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
99-09-2	o-Nitroaniline	U	354	ug/kg	70.9	354
	3-Nitroaniline					

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

SDG Number: 10-1567
Lab Sample ID: 246330008

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.01 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: RE15-10-8301
Batch ID: 950447
Run Date: 02/16/2010 22:25
Prep Date: 02/09/2010 11:07
Data File: s6b1626.d

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 Aldol Condensate	3.27	283	ug/kg		JA
301-02-0	9-Octadecenamide, (Z)-	11.61	217	ug/kg	95	NJ

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330008	Date Received: 02/05/2010 09:00	%Moisture: 6
Client ID: RE15-10-8301	Client: LANL010	Project: LANL01004
Batch ID: 950447	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/16/2010 22:25	Inst: MSD6.I	Dilution: 1
Prep Date: 02/09/2010 11:07	Analyst: NAG1	Inj. Vol: .5 uL
Data File: s6b1626.d	Aliquot: 30.01 g	Final Volume: 1 mL
	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
	Unknown	13.5	845	ug/kg		J
	Unknown	16.68	316	ug/kg		J

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

SDG Number: 10-1567
Lab Sample ID: 246330002

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.1
Analyst: NAG1
Aliquot: 30 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 20.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8304
Batch ID: 950447
Run Date: 02/16/2010 19:37
Prep Date: 02/09/2010 11:07
Data File: s6b1620.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	418	ug/kg	83.7	418
108-95-2	Phenol	U	418	ug/kg	83.7	418
95-57-8	2-Chlorophenol	U	418	ug/kg	83.7	418
106-46-7	1,4-Dichlorobenzene	U	418	ug/kg	83.7	418
621-64-7	N-Nitrosodipropylamine	U	418	ug/kg	83.7	418
59-50-7	4-Chloro-3-methylphenol	U	418	ug/kg	83.7	418
83-32-9	Acenaphthene	U	41.8	ug/kg	13.8	41.8
121-14-2	2,4-Dinitrotoluene	U	418	ug/kg	41.8	418
100-02-7	4-Nitrophenol	U	418	ug/kg	138	418
87-86-5	Pentachlorophenol	U	418	ug/kg	105	418
129-00-0	Pyrene	U	41.8	ug/kg	12.6	41.8
110-86-1	Pyridine	U	418	ug/kg	83.7	418
62-53-3	Aniline	U	418	ug/kg	126	418
111-44-4	bis(2-Chloroethyl) ether	U	418	ug/kg	83.7	418
541-73-1	1,3-Dichlorobenzene	U	418	ug/kg	83.7	418
100-51-6	Benzyl alcohol	U	418	ug/kg	126	418
95-50-1	1,2-Dichlorobenzene	U	418	ug/kg	83.7	418
108-60-1	bis(2-Chloroisopropyl)ether	U	418	ug/kg	83.7	418
95-48-7	o-Cresol	U	418	ug/kg	83.7	418
65794-96-9	m,p-Cresols	U	418	ug/kg	126	418
67-72-1	Hexachloroethane	U	418	ug/kg	83.7	418
98-95-3	Nitrobenzene	U	418	ug/kg	83.7	418
78-59-1	Isophorone	U	418	ug/kg	83.7	418
88-75-5	2-Nitrophenol	U	418	ug/kg	83.7	418
105-67-9	2,4-Dimethylphenol	U	418	ug/kg	146	418
111-91-1	bis(2-Chloroethoxy)methane	U	418	ug/kg	83.7	418
120-83-2	2,4-Dichlorophenol	U	418	ug/kg	83.7	418
65-85-0	Benzoic acid	U	837	ug/kg	209	837
91-20-3	Naphthalene	U	41.8	ug/kg	12.6	41.8
106-47-8	4-Chloroaniline	U	418	ug/kg	83.7	418
87-68-3	Hexachlorobutadiene	U	418	ug/kg	83.7	418
91-57-6	2-Methylnaphthalene	U	41.8	ug/kg	8.37	41.8
77-47-4	Hexachlorocyclopentadiene	U	418	ug/kg	83.7	418
88-06-2	2,4,6-Trichlorophenol	U	418	ug/kg	83.7	418
95-95-4	2,4,5-Trichlorophenol	U	418	ug/kg	83.7	418
91-58-7	2-Chloronaphthalene	U	41.8	ug/kg	13.8	41.8
88-74-4	2-Nitroaniline	U	418	ug/kg	83.7	418
99-09-2	o-Nitroaniline	U	418	ug/kg	83.7	418
	3-Nitroaniline					

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

SDG Number: 10-1567
Lab Sample ID: 246330002

Client ID: RE15-10-8304
Batch ID: 950447
Run Date: 02/16/2010 19:37
Prep Date: 02/09/2010 11:07
Data File: s6b1620.d

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 20.3
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	418	ug/kg	83.7	418
606-20-2	2,6-Dinitrotoluene	U	418	ug/kg	41.8	418
208-96-8	Acenaphthylene	U	41.8	ug/kg	12.6	41.8
51-28-5	2,4-Dinitrophenol	U	837	ug/kg	159	837
132-64-9	Dibenzofuran	U	418	ug/kg	83.7	418
84-66-2	Diethylphthalate	U	418	ug/kg	83.7	418
86-73-7	Fluorene	U	41.8	ug/kg	12.6	41.8
7005-72-3	4-Chlorophenylphenylether	U	418	ug/kg	83.7	418
534-52-1	2-Methyl-4,6-dinitrophenol	U	418	ug/kg	83.7	418
100-01-6	4-Nitroaniline	U	418	ug/kg	126	418
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	418	ug/kg	83.7	418
122-66-7	Azobenzene	U	418	ug/kg	83.7	418
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	418	ug/kg	83.7	418
118-74-1	Hexachlorobenzene	U	418	ug/kg	83.7	418
85-01-8	Phenanthrene	U	41.8	ug/kg	12.6	41.8
120-12-7	Anthracene	U	41.8	ug/kg	8.37	41.8
84-74-2	Di-n-butylphthalate	U	418	ug/kg	83.7	418
206-44-0	Fluoranthene	U	41.8	ug/kg	12.6	41.8
85-68-7	Butylbenzylphthalate	U	418	ug/kg	83.7	418
56-55-3	Benzo(a)anthracene	U	41.8	ug/kg	12.6	41.8
91-94-1	3,3'-Dichlorobenzidine	U	418	ug/kg	126	418
218-01-9	Chrysene	U	41.8	ug/kg	12.6	41.8
117-81-7	bis(2-Ethylhexyl)phthalate	U	418	ug/kg	83.7	418
117-84-0	Di-n-octylphthalate	U	418	ug/kg	83.7	418
205-99-2	Benzo(b)fluoranthene	U	41.8	ug/kg	12.6	41.8
207-08-9	Benzo(k)fluoranthene	U	41.8	ug/kg	12.6	41.8
50-32-8	Benzo(a)pyrene	U	41.8	ug/kg	12.6	41.8
193-39-5	Indeno(1,2,3-cd)pyrene	U	41.8	ug/kg	12.6	41.8
53-70-3	Dibenzo(a,h)anthracene	U	41.8	ug/kg	12.6	41.8
191-24-2	Benzo(ghi)perylene	U	41.8	ug/kg	12.6	41.8
120-82-1	1,2,4-Trichlorobenzene	U	418	ug/kg	83.7	418

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	224	ug/kg		JA
593-39-5	6-Octadecenoic acid, (Z)-	10.71	168	ug/kg	93	NJ

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

SDG Number: 10-1567
Lab Sample ID: 246330002

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6J
Analyst: NAG1
Aliquot: 30 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 20.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8304
Batch ID: 950447
Run Date: 02/16/2010 19:37
Prep Date: 02/09/2010 11:07
Data File: s6b1620.d

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
301-02-0	9-Octadecenamide, (Z)-		11.61	240	ug/kg	96	NJ
112-84-5	13-Docosenamide, (Z)-		13.5	866	ug/kg	93	NJ

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330003	Date Received: 02/05/2010 09:00	%Moisture: 38.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8305	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.I	Dilution: 1
Run Date: 02/16/2010 20:06	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Aliquot: 30.01 g	Final Volume: 1 mL
Data File: s6b1621.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	541	ug/kg	108	541
108-95-2	Phenol	U	541	ug/kg	108	541
95-57-8	2-Chlorophenol	U	541	ug/kg	108	541
106-46-7	1,4-Dichlorobenzene	U	541	ug/kg	108	541
621-64-7	N-Nitrosodipropylamine	U	541	ug/kg	108	541
59-50-7	4-Chloro-3-methylphenol	U	541	ug/kg	108	541
83-32-9	Acenaphthene	U	54.1	ug/kg	17.8	54.1
121-14-2	2,4-Dinitrotoluene	U	541	ug/kg	54.1	541
100-02-7	4-Nitrophenol	U	541	ug/kg	178	541
87-86-5	Pentachlorophenol	U	541	ug/kg	135	541
129-00-0	Pyrene	U	54.1	ug/kg	16.2	54.1
110-86-1	Pyridine	U	541	ug/kg	108	541
62-53-3	Aniline	U	541	ug/kg	162	541
111-44-4	bis(2-Chloroethyl) ether	U	541	ug/kg	108	541
541-73-1	1,3-Dichlorobenzene	U	541	ug/kg	108	541
100-51-6	Benzyl alcohol	U	541	ug/kg	162	541
95-50-1	1,2-Dichlorobenzene	U	541	ug/kg	108	541
108-60-1	bis(2-Chloroisopropyl)ether	U	541	ug/kg	108	541
95-48-7	o-Cresol	U	541	ug/kg	108	541
65794-96-9	m,p-Cresols	U	541	ug/kg	162	541
67-72-1	Hexachloroethane	U	541	ug/kg	108	541
98-95-3	Nitrobenzene	U	541	ug/kg	108	541
78-59-1	Isophorone	U	541	ug/kg	108	541
88-75-5	2-Nitrophenol	U	541	ug/kg	108	541
105-67-9	2,4-Dimethylphenol	U	541	ug/kg	189	541
111-91-1	bis(2-Chloroethoxy)methane	U	541	ug/kg	108	541
120-83-2	2,4-Dichlorophenol	U	541	ug/kg	108	541
65-85-0	Benzoic acid	U	1080	ug/kg	270	1080
91-20-3	Naphthalene	U	54.1	ug/kg	16.2	54.1
106-47-8	4-Chloroaniline	U	541	ug/kg	108	541
87-68-3	Hexachlorobutadiene	U	541	ug/kg	108	541
91-57-6	2-Methylnaphthalene	U	54.1	ug/kg	10.8	54.1
77-47-4	Hexachlorocyclopentadiene	U	541	ug/kg	108	541
88-06-2	2,4,6-Trichlorophenol	U	541	ug/kg	108	541
95-95-4	2,4,5-Trichlorophenol	U	541	ug/kg	108	541
91-58-7	2-Chloronaphthalene	U	54.1	ug/kg	17.8	54.1
88-74-4	2-Nitroaniline	U	541	ug/kg	108	541
	o-Nitroaniline					
99-09-2	3-Nitroaniline	U	541	ug/kg	108	541

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330003	Date Received: 02/05/2010 09:00	%Moisture: 38.4
Client ID: RE15-10-8305	Client: LANL010	Project: LANL01004
Batch ID: 950447	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/16/2010 20:06	Inst: MSD6.I	Dilution: 1
Prep Date: 02/09/2010 11:07	Analyst: NAG1	Inj. Vol: .5 uL
Data File: s6b1621.d	Aliquot: 30.01 g	Final Volume: 1 mL
	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	541	ug/kg	108	541
606-20-2	2,6-Dinitrotoluene	U	541	ug/kg	54.1	541
208-96-8	Acenaphthylene	U	54.1	ug/kg	16.2	54.1
51-28-5	2,4-Dinitrophenol	U	1080	ug/kg	205	1080
132-64-9	Dibenzofuran	U	541	ug/kg	108	541
84-66-2	Diethylphthalate	U	541	ug/kg	108	541
86-73-7	Fluorene	U	54.1	ug/kg	16.2	54.1
7005-72-3	4-Chlorophenylphenylether	U	541	ug/kg	108	541
534-52-1	2-Methyl-4,6-dinitrophenol	U	541	ug/kg	108	541
100-01-6	4-Nitroaniline	U	541	ug/kg	162	541
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	541	ug/kg	108	541
122-66-7	Azobenzene	U	541	ug/kg	108	541
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	541	ug/kg	108	541
118-74-1	Hexachlorobenzene	U	541	ug/kg	108	541
85-01-8	Phenanthrene	U	54.1	ug/kg	16.2	54.1
120-12-7	Anthracene	U	54.1	ug/kg	10.8	54.1
84-74-2	Di-n-butylphthalate	U	541	ug/kg	108	541
206-44-0	Fluoranthene	U	54.1	ug/kg	16.2	54.1
85-68-7	Butylbenzylphthalate	U	541	ug/kg	108	541
56-55-3	Benzo(a)anthracene	U	54.1	ug/kg	16.2	54.1
91-94-1	3,3'-Dichlorobenzidine	U	541	ug/kg	162	541
218-01-9	Chrysene	U	54.1	ug/kg	16.2	54.1
117-81-7	bis(2-Ethylhexyl)phthalate	U	541	ug/kg	108	541
117-84-0	Di-n-octylphthalate	U	541	ug/kg	108	541
205-99-2	Benzo(b)fluoranthene	U	54.1	ug/kg	16.2	54.1
207-08-9	Benzo(k)fluoranthene	U	54.1	ug/kg	16.2	54.1
50-32-8	Benzo(a)pyrene	U	54.1	ug/kg	16.2	54.1
193-39-5	Indeno(1,2,3-cd)pyrene	U	54.1	ug/kg	16.2	54.1
53-70-3	Dibenzo(a,h)anthracene	U	54.1	ug/kg	16.2	54.1
191-24-2	Benzo(ghi)perylene	U	54.1	ug/kg	16.2	54.1
120-82-1	1,2,4-Trichlorobenzene	U	541	ug/kg	108	541

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	297	ug/kg		JA
	Unknown	11.2	278	ug/kg		J

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

SDG Number: 10-1567
Lab Sample ID: 246330003

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.01 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 38.4
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
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Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
514-95-4	1,5,5-Trimethyl-6-methylene-cyclohexene	11.41	270	ug/kg	87	NJ
506-30-9	Eicosanoic acid	11.59	402	ug/kg	95	NJ
1235-74-1	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	11.63	313	ug/kg	95	NJ
	Unknown	11.97	784	ug/kg		J
1740-19-8	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	12.09	1560	ug/kg	94	NJ
	Unknown	13.16	946	ug/kg		J
	Unknown	13.2	409	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	13.51	498	ug/kg	94	NJ
	Unknown	15.46	263	ug/kg		J

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330004	Date Received: 02/05/2010 09:00	%Moisture: 21.2
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8306	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.I	Dilution: 1
Run Date: 02/16/2010 20:33	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Aliquot: 30.03 g	Final Volume: 1 mL
Data File: s6b1622.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	423	ug/kg	84.6	423
108-95-2	Phenol	U	423	ug/kg	84.6	423
95-57-8	2-Chlorophenol	U	423	ug/kg	84.6	423
106-46-7	1,4-Dichlorobenzene	U	423	ug/kg	84.6	423
621-64-7	N-Nitrosodipropylamine	U	423	ug/kg	84.6	423
59-50-7	4-Chloro-3-methylphenol	U	423	ug/kg	84.6	423
83-32-9	Acenaphthene	U	42.3	ug/kg	14.0	42.3
121-14-2	2,4-Dinitrotoluene	U	423	ug/kg	42.3	423
100-02-7	4-Nitrophenol	U	423	ug/kg	140	423
87-86-5	Pentachlorophenol	U	423	ug/kg	106	423
129-00-0	Pyrene	U	42.3	ug/kg	12.7	42.3
110-86-1	Pyridine	U	423	ug/kg	84.6	423
62-53-3	Aniline	U	423	ug/kg	127	423
111-44-4	bis(2-Chloroethyl) ether	U	423	ug/kg	84.6	423
541-73-1	1,3-Dichlorobenzene	U	423	ug/kg	84.6	423
100-51-6	Benzyl alcohol	U	423	ug/kg	127	423
95-50-1	1,2-Dichlorobenzene	U	423	ug/kg	84.6	423
108-60-1	bis(2-Chloroisopropyl)ether	U	423	ug/kg	84.6	423
95-48-7	o-Cresol	U	423	ug/kg	84.6	423
65794-96-9	m,p-Cresols	U	423	ug/kg	127	423
67-72-1	Hexachloroethane	U	423	ug/kg	84.6	423
98-95-3	Nitrobenzene	U	423	ug/kg	84.6	423
78-59-1	Isophorone	U	423	ug/kg	84.6	423
88-75-5	2-Nitrophenol	U	423	ug/kg	84.6	423
105-67-9	2,4-Dimethylphenol	U	423	ug/kg	148	423
111-91-1	bis(2-Chloroethoxy)methane	U	423	ug/kg	84.6	423
120-83-2	2,4-Dichlorophenol	U	423	ug/kg	84.6	423
65-85-0	Benzoic acid	U	846	ug/kg	211	846
91-20-3	Naphthalene	U	42.3	ug/kg	12.7	42.3
106-47-8	4-Chloroaniline	U	423	ug/kg	84.6	423
87-68-3	Hexachlorobutadiene	U	423	ug/kg	84.6	423
91-57-6	2-Methylnaphthalene	U	42.3	ug/kg	8.46	42.3
77-47-4	Hexachlorocyclopentadiene	U	423	ug/kg	84.6	423
88-06-2	2,4,6-Trichlorophenol	U	423	ug/kg	84.6	423
95-95-4	2,4,5-Trichlorophenol	U	423	ug/kg	84.6	423
91-58-7	2-Chloronaphthalene	U	42.3	ug/kg	14.0	42.3
88-74-4	2-Nitroaniline	U	423	ug/kg	84.6	423
	o-Nitroaniline					
99-09-2	3-Nitroaniline	U	423	ug/kg	84.6	423

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330004	Date Received: 02/05/2010 09:00	%Moisture: 21.2
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8306	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6J	Dilution: 1
Run Date: 02/16/2010 20:33	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Aliquot: 30.03 g	Final Volume: 1 mL
Data File: s6b1622.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	423	ug/kg	84.6	423
606-20-2	2,6-Dinitrotoluene	U	423	ug/kg	42.3	423
208-96-8	Acenaphthylene	U	42.3	ug/kg	12.7	42.3
51-28-5	2,4-Dinitrophenol	U	846	ug/kg	161	846
132-64-9	Dibenzofuran	U	423	ug/kg	84.6	423
84-66-2	Diethylphthalate	U	423	ug/kg	84.6	423
86-73-7	Fluorene	U	42.3	ug/kg	12.7	42.3
7005-72-3	4-Chlorophenylphenylether	U	423	ug/kg	84.6	423
534-52-1	2-Methyl-4,6-dinitrophenol	U	423	ug/kg	84.6	423
100-01-6	4-Nitroaniline	U	423	ug/kg	127	423
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	423	ug/kg	84.6	423
122-66-7	Azobenzene	U	423	ug/kg	84.6	423
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	423	ug/kg	84.6	423
118-74-1	Hexachlorobenzene	U	423	ug/kg	84.6	423
85-01-8	Phenanthrene	U	42.3	ug/kg	12.7	42.3
120-12-7	Anthracene	U	42.3	ug/kg	8.46	42.3
84-74-2	Di-n-butylphthalate	U	423	ug/kg	84.6	423
206-44-0	Fluoranthene	U	42.3	ug/kg	12.7	42.3
85-68-7	Butylbenzylphthalate	U	423	ug/kg	84.6	423
56-55-3	Benzo(a)anthracene	U	42.3	ug/kg	12.7	42.3
91-94-1	3,3'-Dichlorobenzidine	U	423	ug/kg	127	423
218-01-9	Chrysene	U	42.3	ug/kg	12.7	42.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	423	ug/kg	84.6	423
117-84-0	Di-n-octylphthalate	U	423	ug/kg	84.6	423
205-99-2	Benzo(b)fluoranthene	U	42.3	ug/kg	12.7	42.3
207-08-9	Benzo(k)fluoranthene	U	42.3	ug/kg	12.7	42.3
50-32-8	Benzo(a)pyrene	U	42.3	ug/kg	12.7	42.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	42.3	ug/kg	12.7	42.3
53-70-3	Dibenzo(a,h)anthracene	U	42.3	ug/kg	12.7	42.3
191-24-2	Benzo(ghi)perylene	U	42.3	ug/kg	12.7	42.3
120-82-1	1,2,4-Trichlorobenzene	U	423	ug/kg	84.6	423

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	312	ug/kg		JA
	Unknown	8.99	585	ug/kg		J

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

SDG Number: 10-1567
Lab Sample ID: 246330004

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 21.2
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
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Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
57-10-3	n-Hexadecanoic acid	9.94	183	ug/kg	98	NJ
	Unknown	11.54	169	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	11.62	264	ug/kg	97	NJ
1235-74-1	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	11.64	241	ug/kg	95	NJ
	Unknown	11.69	241	ug/kg		J
1740-19-8	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	12.08	505	ug/kg	94	NJ
112-84-5	13-Docosenamide, (Z)-	13.51	1140	ug/kg	91	NJ
	Unknown	16.68	956	ug/kg		J
	Unknown	17.04	240	ug/kg		J
	Unknown	17.55	313	ug/kg		J
	Unknown	18.19	196	ug/kg		J

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330005	Date Received: 02/05/2010 09:00	%Moisture: 14.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8307	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.I	Dilution: 1
Run Date: 02/16/2010 21:01	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Aliquot: 30 g	Final Volume: 1 mL
Data File: s6b1623.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	390	ug/kg	77.9	390
108-95-2	Phenol	U	390	ug/kg	77.9	390
95-57-8	2-Chlorophenol	U	390	ug/kg	77.9	390
106-46-7	1,4-Dichlorobenzene	U	390	ug/kg	77.9	390
621-64-7	N-Nitrosodipropylamine	U	390	ug/kg	77.9	390
59-50-7	4-Chloro-3-methylphenol	U	390	ug/kg	77.9	390
83-32-9	Accenaphthene	U	39.0	ug/kg	12.9	39.0
121-14-2	2,4-Dinitrotoluene	U	390	ug/kg	39.0	390
100-02-7	4-Nitrophenol	U	390	ug/kg	129	390
87-86-5	Pentachlorophenol	U	390	ug/kg	97.4	390
129-00-0	Pyrene	U	39.0	ug/kg	11.7	39.0
110-86-1	Pyridine	U	390	ug/kg	77.9	390
62-53-3	Aniline	U	390	ug/kg	117	390
111-44-4	bis(2-Chloroethyl) ether	U	390	ug/kg	77.9	390
541-73-1	1,3-Dichlorobenzene	U	390	ug/kg	77.9	390
100-51-6	Benzyl alcohol	U	390	ug/kg	117	390
95-50-1	1,2-Dichlorobenzene	U	390	ug/kg	77.9	390
108-60-1	bis(2-Chloroisopropyl)ether	U	390	ug/kg	77.9	390
95-48-7	o-Cresol	U	390	ug/kg	77.9	390
65794-96-9	m,p-Cresols	U	390	ug/kg	117	390
67-72-1	Hexachloroethane	U	390	ug/kg	77.9	390
98-95-3	Nitrobenzene	U	390	ug/kg	77.9	390
78-59-1	Isophorone	U	390	ug/kg	77.9	390
88-75-5	2-Nitrophenol	U	390	ug/kg	77.9	390
105-67-9	2,4-Dimethylphenol	U	390	ug/kg	136	390
111-91-1	bis(2-Chloroethoxy)methane	U	390	ug/kg	77.9	390
120-83-2	2,4-Dichlorophenol	U	390	ug/kg	77.9	390
65-85-0	Benzoic acid	U	779	ug/kg	195	779
91-20-3	Naphthalene	U	39.0	ug/kg	11.7	39.0
106-47-8	4-Chloroaniline	U	390	ug/kg	77.9	390
87-68-3	Hexachlorobutadiene	U	390	ug/kg	77.9	390
91-57-6	2-Methylnaphthalene	U	39.0	ug/kg	7.79	39.0
77-47-4	Hexachlorocyclopentadiene	U	390	ug/kg	77.9	390
88-06-2	2,4,6-Trichlorophenol	U	390	ug/kg	77.9	390
95-95-4	2,4,5-Trichlorophenol	U	390	ug/kg	77.9	390
91-58-7	2-Chloronaphthalene	U	39.0	ug/kg	12.9	39.0
88-74-4	2-Nitroaniline	U	390	ug/kg	77.9	390
	o-Nitroaniline					
99-09-2	3-Nitroaniline	U	390	ug/kg	77.9	390

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330005	Date Received: 02/05/2010 09:00	%Moisture: 14.4
Client ID: RE15-10-8307	Client: LANL010	Project: LANL01004
Batch ID: 950447	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/16/2010 21:01	Inst: MSD6.I	Dilution: 1
Prep Date: 02/09/2010 11:07	Analyst: NAG1	Inj. Vol: .5 uL
Data File: s6b1623.d	Aliquot: 30 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m-Nitroaniline</i>					
131-11-3	Dimethylphthalate	U	390	ug/kg	77.9	390
606-20-2	2,6-Dinitrotoluene	U	390	ug/kg	39.0	390
208-96-8	Accnaphthylene	U	39.0	ug/kg	11.7	39.0
51-28-5	2,4-Dinitrophenol	U	779	ug/kg	148	779
132-64-9	Dibenzofuran	U	390	ug/kg	77.9	390
84-66-2	Diethylphthalate	U	390	ug/kg	77.9	390
86-73-7	Fluorene	U	39.0	ug/kg	11.7	39.0
7005-72-3	4-Chlorophenylphenylether	U	390	ug/kg	77.9	390
534-52-1	2-Methyl-4,6-dinitrophenol	U	390	ug/kg	77.9	390
100-01-6	4-Nitroaniline	U	390	ug/kg	117	390
	<i>p-Nitroaniline</i>					
122-39-4	Diphenylamine	U	390	ug/kg	77.9	390
122-66-7	Azobenzene	U	390	ug/kg	77.9	390
	<i>1,2-Diphenylhydrazine</i>					
101-55-3	4-Bromophenylphenylether	U	390	ug/kg	77.9	390
118-74-1	Hexachlorobenzene	U	390	ug/kg	77.9	390
85-01-8	Phenanthrene	U	39.0	ug/kg	11.7	39.0
120-12-7	Anthracene	U	39.0	ug/kg	7.79	39.0
84-74-2	Di-n-butylphthalate	U	390	ug/kg	77.9	390
206-44-0	Fluoranthene	U	39.0	ug/kg	11.7	39.0
85-68-7	Butylbenzylphthalate	U	390	ug/kg	77.9	390
56-55-3	Benzo(a)anthracene	U	39.0	ug/kg	11.7	39.0
91-94-1	3,3'-Dichlorobenzidine	U	390	ug/kg	117	390
218-01-9	Chrysene	U	39.0	ug/kg	11.7	39.0
117-81-7	bis(2-Ethylhexyl)phthalate	U	390	ug/kg	77.9	390
117-84-0	Di-n-octylphthalate	U	390	ug/kg	77.9	390
205-99-2	Benzo(b)fluoranthene	U	39.0	ug/kg	11.7	39.0
207-08-9	Benzo(k)fluoranthene	U	39.0	ug/kg	11.7	39.0
50-32-8	Benzo(a)pyrene	U	39.0	ug/kg	11.7	39.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	39.0	ug/kg	11.7	39.0
53-70-3	Dibenzo(a,h)anthracene	U	39.0	ug/kg	11.7	39.0
191-24-2	Benzo(ghi)perylene	U	39.0	ug/kg	11.7	39.0
120-82-1	1,2,4-Trichlorobenzene	U	390	ug/kg	77.9	390

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	272	ug/kg		JA
1135-24-6	2-Propenoic acid, 3-(4-hydroxy-3-methoxy	9.6	355	ug/kg	97	NJ

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

SDG Number: 10-1567
Lab Sample ID: 246330005

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 14.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8307
Batch ID: 950447
Run Date: 02/16/2010 21:01
Prep Date: 02/09/2010 11:07
Data File: s6b1623.d

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
57-10-3	n-Hexadecanoic acid	9.94	170	ug/kg	97	NJ
	Unknown	11.52	354	ug/kg		J
	Unknown	11.54	243	ug/kg		J
506-12-7	Heptadecanoic acid	11.58	199	ug/kg	96	NJ
301-02-0	9-Octadecenamide, (Z)-	11.62	332	ug/kg	93	NJ
	Unknown	11.69	283	ug/kg		J
	Unknown	11.92	205	ug/kg		J
5155-70-4	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	12.09	983	ug/kg	94	NJ
112-85-6	Docosanoic acid	12.42	436	ug/kg	97	NJ
557-59-5	Tetracosanoic acid	13.41	320	ug/kg	91	NJ
112-84-5	13-Docosenamide, (Z)-	13.52	913	ug/kg	97	NJ
	Unknown	15.46	211	ug/kg		J
	Unknown	15.68	1760	ug/kg		J
	Unknown	15.95	242	ug/kg		J
	Unknown	15.95	251	ug/kg		J
	Unknown	16.44	3280	ug/kg		J
	Unknown	16.68	944	ug/kg		J
83-46-5	.beta.-Sitosterol	17.55	242	ug/kg	84	NJ
	Unknown	18.19	262	ug/kg		J

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330007	Date Received: 02/05/2010 09:00	%Moisture: 27.6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8308	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.I	Dilution: 1
Run Date: 02/16/2010 21:57	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Aliquot: 30.02 g	Final Volume: 1 mL
Data File: s6b1625.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	460	ug/kg	92.0	460
108-95-2	Phenol	U	460	ug/kg	92.0	460
95-57-8	2-Chlorophenol	U	460	ug/kg	92.0	460
106-46-7	1,4-Dichlorobenzene	U	460	ug/kg	92.0	460
621-64-7	N-Nitrosodipropylamine	U	460	ug/kg	92.0	460
59-50-7	4-Chloro-3-methylphenol	U	460	ug/kg	92.0	460
83-32-9	Acenaphthene	U	46.0	ug/kg	15.2	46.0
121-14-2	2,4-Dinitrotoluene	U	460	ug/kg	46.0	460
100-02-7	4-Nitrophenol	U	460	ug/kg	152	460
87-86-5	Pentachlorophenol	U	460	ug/kg	115	460
129-00-0	Pyrene	U	46.0	ug/kg	13.8	46.0
110-86-1	Pyridine	U	460	ug/kg	92.0	460
62-53-3	Aniline	U	460	ug/kg	138	460
111-44-4	bis(2-Chloroethyl) ether	U	460	ug/kg	92.0	460
541-73-1	1,3-Dichlorobenzene	U	460	ug/kg	92.0	460
100-51-6	Benzyl alcohol	U	460	ug/kg	138	460
95-50-1	1,2-Dichlorobenzene	U	460	ug/kg	92.0	460
108-60-1	bis(2-Chloroisopropyl)ether	U	460	ug/kg	92.0	460
95-48-7	o-Cresol	U	460	ug/kg	92.0	460
65794-96-9	m,p-Cresols	U	460	ug/kg	138	460
67-72-1	Hexachloroethane	U	460	ug/kg	92.0	460
98-95-3	Nitrobenzene	U	460	ug/kg	92.0	460
78-59-1	Isophorone	U	460	ug/kg	92.0	460
88-75-5	2-Nitrophenol	U	460	ug/kg	92.0	460
105-67-9	2,4-Dimethylphenol	U	460	ug/kg	161	460
111-91-1	bis(2-Chloroethoxy)methane	U	460	ug/kg	92.0	460
120-83-2	2,4-Dichlorophenol	U	460	ug/kg	92.0	460
65-85-0	Benzoic acid	U	920	ug/kg	230	920
91-20-3	Naphthalene	U	46.0	ug/kg	13.8	46.0
106-47-8	4-Chloroaniline	U	460	ug/kg	92.0	460
87-68-3	Hexachlorobutadiene	U	460	ug/kg	92.0	460
91-57-6	2-Methylnaphthalene	U	46.0	ug/kg	9.20	46.0
77-47-4	Hexachlorocyclopentadiene	U	460	ug/kg	92.0	460
88-06-2	2,4,6-Trichlorophenol	U	460	ug/kg	92.0	460
95-95-4	2,4,5-Trichlorophenol	U	460	ug/kg	92.0	460
91-58-7	2-Chloronaphthalene	U	46.0	ug/kg	15.2	46.0
88-74-4	2-Nitroaniline	U	460	ug/kg	92.0	460
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	460	ug/kg	92.0	460

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

SDG Number: 10-1567
Lab Sample ID: 246330007

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.02 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 27.6
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
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	460	ug/kg	92.0	460
606-20-2	2,6-Dinitrotoluene	U	460	ug/kg	46.0	460
208-96-8	Acenaphthylene	U	46.0	ug/kg	13.8	46.0
51-28-5	2,4-Dinitrophenol	U	920	ug/kg	175	920
132-64-9	Dibenzofuran	U	460	ug/kg	92.0	460
84-66-2	Diethylphthalate	U	460	ug/kg	92.0	460
86-73-7	Fluorene	U	46.0	ug/kg	13.8	46.0
7005-72-3	4-Chlorophenylphenylether	U	460	ug/kg	92.0	460
534-52-1	2-Methyl-4,6-dinitrophenol	U	460	ug/kg	92.0	460
100-01-6	4-Nitroaniline	U	460	ug/kg	138	460
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	460	ug/kg	92.0	460
122-66-7	Azobenzene	U	460	ug/kg	92.0	460
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	460	ug/kg	92.0	460
118-74-1	Hexachlorobenzene	U	460	ug/kg	92.0	460
85-01-8	Phenanthrene	U	46.0	ug/kg	13.8	46.0
120-12-7	Anthracene	U	46.0	ug/kg	9.20	46.0
84-74-2	Di-n-butylphthalate	U	460	ug/kg	92.0	460
206-44-0	Fluoranthene	U	46.0	ug/kg	13.8	46.0
85-68-7	Butylbenzylphthalate	U	460	ug/kg	92.0	460
56-55-3	Benzo(a)anthracene	U	46.0	ug/kg	13.8	46.0
91-94-1	3,3'-Dichlorobenzidine	U	460	ug/kg	138	460
218-01-9	Chrysene	U	46.0	ug/kg	13.8	46.0
117-81-7	bis(2-Ethylhexyl)phthalate	U	460	ug/kg	92.0	460
117-84-0	Di-n-octylphthalate	U	460	ug/kg	92.0	460
205-99-2	Benzo(b)fluoranthene	U	46.0	ug/kg	13.8	46.0
207-08-9	Benzo(k)fluoranthene	U	46.0	ug/kg	13.8	46.0
50-32-8	Benzo(a)pyrene	U	46.0	ug/kg	13.8	46.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	46.0	ug/kg	13.8	46.0
53-70-3	Dibenzo(a,h)anthracene	U	46.0	ug/kg	13.8	46.0
191-24-2	Benzo(ghi)perylene	U	46.0	ug/kg	13.8	46.0
120-82-1	1,2,4-Trichlorobenzene	U	460	ug/kg	92.0	460

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	290	ug/kg		JA
301-02-0	9-Octadecenamide, (Z)-	11.61	347	ug/kg	95	NJ

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330007	Date Received: 02/05/2010 09:00	%Moisture: 27.6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8308	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.I	Dilution: 1
Run Date: 02/16/2010 21:57	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Aliquot: 30.02 g	Final Volume: 1 mL
Data File: s6b1625.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
112-84-5	13-Docosenamide, (Z)-		13.5	1200	ug/kg	93	NJ
112-95-8	Eicosane		14.1	290	ug/kg	91	NJ

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

SDG Number: 10-1567
Lab Sample ID: 246330006

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 10.6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8309
Batch ID: 950447
Run Date: 02/16/2010 21:28
Prep Date: 02/09/2010 11:07
Data File: s6b1624.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	373	ug/kg	74.5	373
108-95-2	Phenol	U	373	ug/kg	74.5	373
95-57-8	2-Chlorophenol	U	373	ug/kg	74.5	373
106-46-7	1,4-Dichlorobenzene	U	373	ug/kg	74.5	373
621-64-7	N-Nitrosodipropylamine	U	373	ug/kg	74.5	373
59-50-7	4-Chloro-3-methylphenol	U	373	ug/kg	74.5	373
83-32-9	Acenaphthene	U	37.3	ug/kg	12.3	37.3
121-14-2	2,4-Dinitrotoluene	U	373	ug/kg	37.3	373
100-02-7	4-Nitrophenol	U	373	ug/kg	123	373
87-86-5	Pentachlorophenol	U	373	ug/kg	93.2	373
129-00-0	Pyrene	U	37.3	ug/kg	11.2	37.3
110-86-1	Pyridine	U	373	ug/kg	74.5	373
62-53-3	Aniline	U	373	ug/kg	112	373
111-44-4	bis(2-Chloroethyl) ether	U	373	ug/kg	74.5	373
541-73-1	1,3-Dichlorobenzene	U	373	ug/kg	74.5	373
100-51-6	Benzyl alcohol	U	373	ug/kg	112	373
95-50-1	1,2-Dichlorobenzene	U	373	ug/kg	74.5	373
108-60-1	bis(2-Chloroisopropyl)ether	U	373	ug/kg	74.5	373
95-48-7	o-Cresol	U	373	ug/kg	74.5	373
65794-96-9	m,p-Cresols	U	373	ug/kg	112	373
67-72-1	Hexachloroethane	U	373	ug/kg	74.5	373
98-95-3	Nitrobenzene	U	373	ug/kg	74.5	373
78-59-1	Isophorone	U	373	ug/kg	74.5	373
88-75-5	2-Nitrophenol	U	373	ug/kg	74.5	373
105-67-9	2,4-Dimethylphenol	U	373	ug/kg	130	373
111-91-1	bis(2-Chloroethoxy)methane	U	373	ug/kg	74.5	373
120-83-2	2,4-Dichlorophenol	U	373	ug/kg	74.5	373
65-85-0	Benzoic acid	U	745	ug/kg	186	745
91-20-3	Naphthalene	U	37.3	ug/kg	11.2	37.3
106-47-8	4-Chloroaniline	U	373	ug/kg	74.5	373
87-68-3	Hexachlorobutadiene	U	373	ug/kg	74.5	373
91-57-6	2-Methylnaphthalene	U	37.3	ug/kg	7.45	37.3
77-47-4	Hexachlorocyclopentadiene	U	373	ug/kg	74.5	373
88-06-2	2,4,6-Trichlorophenol	U	373	ug/kg	74.5	373
95-95-4	2,4,5-Trichlorophenol	U	373	ug/kg	74.5	373
91-58-7	2-Chloronaphthalene	U	37.3	ug/kg	12.3	37.3
88-74-4	2-Nitroaniline	U	373	ug/kg	74.5	373
99-09-2	<i>o</i> -Nitroaniline	U	373	ug/kg	74.5	373
	3-Nitroaniline					

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

SDG Number: 10-1567
Lab Sample ID: 246330006

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 10.6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8309
Batch ID: 950447
Run Date: 02/16/2010 21:28
Prep Date: 02/09/2010 11:07
Data File: s6b1624.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	373	ug/kg	74.5	373
606-20-2	2,6-Dinitrotoluene	U	373	ug/kg	37.3	373
208-96-8	Acenaphthylene	U	37.3	ug/kg	11.2	37.3
51-28-5	2,4-Dinitrophenol	U	745	ug/kg	142	745
132-64-9	Dibenzofuran	U	373	ug/kg	74.5	373
84-66-2	Diethylphthalate	U	373	ug/kg	74.5	373
86-73-7	Fluorene	U	37.3	ug/kg	11.2	37.3
7005-72-3	4-Chlorophenylphenylether	U	373	ug/kg	74.5	373
534-52-1	2-Methyl-4,6-dinitrophenol	U	373	ug/kg	74.5	373
100-01-6	4-Nitroaniline	U	373	ug/kg	112	373
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	373	ug/kg	74.5	373
122-66-7	Azobenzene	U	373	ug/kg	74.5	373
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	373	ug/kg	74.5	373
118-74-1	Hexachlorobenzene	U	373	ug/kg	74.5	373
85-01-8	Phenanthrene	U	37.3	ug/kg	11.2	37.3
120-12-7	Anthracene	U	37.3	ug/kg	7.45	37.3
84-74-2	Di-n-butylphthalate	U	373	ug/kg	74.5	373
206-44-0	Fluoranthene	U	37.3	ug/kg	11.2	37.3
85-68-7	Butylbenzylphthalate	U	373	ug/kg	74.5	373
56-55-3	Benzo(a)anthracene	U	37.3	ug/kg	11.2	37.3
91-94-1	3,3'-Dichlorobenzidine	U	373	ug/kg	112	373
218-01-9	Chrysene	U	37.3	ug/kg	11.2	37.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	373	ug/kg	74.5	373
117-84-0	Di-n-octylphthalate	U	373	ug/kg	74.5	373
205-99-2	Benzo(b)fluoranthene	U	37.3	ug/kg	11.2	37.3
207-08-9	Benzo(k)fluoranthene	U	37.3	ug/kg	11.2	37.3
50-32-8	Benzo(a)pyrene	U	37.3	ug/kg	11.2	37.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	37.3	ug/kg	11.2	37.3
53-70-3	Dibenzo(a,h)anthracene	U	37.3	ug/kg	11.2	37.3
191-24-2	Benzo(ghi)perylene	U	37.3	ug/kg	11.2	37.3
120-82-1	1,2,4-Trichlorobenzene	U	373	ug/kg	74.5	373

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	312	ug/kg		JA
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	11.56	282	ug/kg	93	NJ

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330006	Date Received: 02/05/2010 09:00	%Moisture: 10.6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8309	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.I	Dilution: 1
Run Date: 02/16/2010 21:28	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Aliquot: 30.03 g	Final Volume: 1 mL
Data File: s6b1624.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
301-02-0	9-Octadecenamide, (Z)-	11.61	192	ug/kg	98	NJ
	Unknown	13.5	939	ug/kg		J
	Unknown	15.17	286	ug/kg		J
	Unknown	15.18	258	ug/kg		J
	Unknown	15.2	288	ug/kg		J
	Unknown	15.97	1490	ug/kg		J
	Unknown	16.67	168	ug/kg		J

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330010	Date Received: 02/05/2010 09:00	%Moisture: 20.9
Client ID: RE15-10-8324	Client: LANL010	Project: LANL01004
Batch ID: 950447	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/16/2010 23:21	Inst: MSD6.I	Dilution: 1
Prep Date: 02/09/2010 11:07	Analyst: NAG1	Inj. Vol: .5 uL
Data File: s6b1628.d	Aliquot: 30.01 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	421	ug/kg	84.2	421
108-95-2	Phenol	U	421	ug/kg	84.2	421
95-57-8	2-Chlorophenol	U	421	ug/kg	84.2	421
106-46-7	1,4-Dichlorobenzene	U	421	ug/kg	84.2	421
621-64-7	N-Nitrosodipropylamine	U	421	ug/kg	84.2	421
59-50-7	4-Chloro-3-methylphenol	U	421	ug/kg	84.2	421
83-32-9	Acenaphthene	U	42.1	ug/kg	13.9	42.1
121-14-2	2,4-Dinitrotoluene	U	421	ug/kg	42.1	421
100-02-7	4-Nitrophenol	U	421	ug/kg	139	421
87-86-5	Pentachlorophenol	U	421	ug/kg	105	421
129-00-0	Pyrene	U	42.1	ug/kg	12.6	42.1
110-86-1	Pyridine	U	421	ug/kg	84.2	421
62-53-3	Aniline	U	421	ug/kg	126	421
111-44-4	bis(2-Chloroethyl) ether	U	421	ug/kg	84.2	421
541-73-1	1,3-Dichlorobenzene	U	421	ug/kg	84.2	421
100-51-6	Benzyl alcohol	U	421	ug/kg	126	421
95-50-1	1,2-Dichlorobenzene	U	421	ug/kg	84.2	421
108-60-1	bis(2-Chloroisopropyl)ether	U	421	ug/kg	84.2	421
95-48-7	o-Cresol	U	421	ug/kg	84.2	421
65794-96-9	m,p-Cresols	U	421	ug/kg	126	421
67-72-1	Hexachloroethane	U	421	ug/kg	84.2	421
98-95-3	Nitrobenzene	U	421	ug/kg	84.2	421
78-59-1	Isophorone	U	421	ug/kg	84.2	421
88-75-5	2-Nitrophenol	U	421	ug/kg	84.2	421
105-67-9	2,4-Dimethylphenol	U	421	ug/kg	147	421
111-91-1	bis(2-Chloroethoxy)methane	U	421	ug/kg	84.2	421
120-83-2	2,4-Dichlorophenol	U	421	ug/kg	84.2	421
65-85-0	Benzoic acid	U	842	ug/kg	211	842
91-20-3	Naphthalene	U	42.1	ug/kg	12.6	42.1
106-47-8	4-Chloroaniline	U	421	ug/kg	84.2	421
87-68-3	Hexachlorobutadiene	U	421	ug/kg	84.2	421
91-57-6	2-Methylnaphthalene	U	42.1	ug/kg	8.42	42.1
77-47-4	Hexachlorocyclopentadiene	U	421	ug/kg	84.2	421
88-06-2	2,4,6-Trichlorophenol	U	421	ug/kg	84.2	421
95-95-4	2,4,5-Trichlorophenol	U	421	ug/kg	84.2	421
91-58-7	2-Chloronaphthalene	U	42.1	ug/kg	13.9	42.1
88-74-4	2-Nitroaniline	U	421	ug/kg	84.2	421
99-09-2	o-Nitroaniline	U	421	ug/kg	84.2	421
	3-Nitroaniline					

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

SDG Number: 10-1567
Lab Sample ID: 246330010

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.01 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 20.9
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	PQI/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	421	ug/kg	84.2	421
606-20-2	2,6-Dinitrotoluene	U	421	ug/kg	42.1	421
208-96-8	Acenaphthylene	U	42.1	ug/kg	12.6	42.1
51-28-5	2,4-Dinitrophenol	U	842	ug/kg	160	842
132-64-9	Dibenzofuran	U	421	ug/kg	84.2	421
84-66-2	Diethylphthalate	U	421	ug/kg	84.2	421
86-73-7	Fluorene	U	42.1	ug/kg	12.6	42.1
7005-72-3	4-Chlorophenylphenylether	U	421	ug/kg	84.2	421
534-52-1	2-Methyl-4,6-dinitrophenol	U	421	ug/kg	84.2	421
100-01-6	4-Nitroaniline	U	421	ug/kg	126	421
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	421	ug/kg	84.2	421
122-66-7	Azobenzene	U	421	ug/kg	84.2	421
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	421	ug/kg	84.2	421
118-74-1	Hexachlorobenzene	U	421	ug/kg	84.2	421
85-01-8	Phenanthrene	U	42.1	ug/kg	12.6	42.1
120-12-7	Anthracene	U	42.1	ug/kg	8.42	42.1
84-74-2	Di-n-butylphthalate	U	421	ug/kg	84.2	421
206-44-0	Fluoranthene	U	42.1	ug/kg	12.6	42.1
85-68-7	Butylbenzylphthalate	U	421	ug/kg	84.2	421
56-55-3	Benzo(a)anthracene	U	42.1	ug/kg	12.6	42.1
91-94-1	3,3'-Dichlorobenzidine	U	421	ug/kg	126	421
218-01-9	Chrysene	U	42.1	ug/kg	12.6	42.1
117-81-7	bis(2-Ethylhexyl)phthalate	U	421	ug/kg	84.2	421
117-84-0	Di-n-octylphthalate	U	421	ug/kg	84.2	421
205-99-2	Benzo(b)fluoranthene	U	42.1	ug/kg	12.6	42.1
207-08-9	Benzo(k)fluoranthene	U	42.1	ug/kg	12.6	42.1
50-32-8	Benzo(a)pyrene	U	42.1	ug/kg	12.6	42.1
193-39-5	Indeno(1,2,3-cd)pyrene	U	42.1	ug/kg	12.6	42.1
53-70-3	Dibenzo(a,h)anthracene	U	42.1	ug/kg	12.6	42.1
191-24-2	Benzo(ghi)perylene	U	42.1	ug/kg	12.6	42.1
120-82-1	1,2,4-Trichlorobenzene	U	421	ug/kg	84.2	421

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	204	ug/kg		JA
	Unknown	10.22	179	ug/kg		J

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

SDG Number: 10-1567
Lab Sample ID: 246330010

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.01 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 20.9
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
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Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	10.73	324	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	11.61	283	ug/kg	97	NJ
	Unknown	13.5	1090	ug/kg		J
	Unknown	16.42	195	ug/kg		J
	Unknown	16.68	988	ug/kg		J
	Unknown	17.04	231	ug/kg		J
	Unknown	17.55	346	ug/kg		J
	Unknown	18.19	177	ug/kg		J

QC Summary

Semi-Volatile
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-1567

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
1202036798	MB for batch 950443	57	59	54	55	62	83
1202036801	LCS for batch 950443	62	63	66	64	76	82
246330002	RE15-10-8304	43	47	44	43	48	69
246330003	RE15-10-8305	48	48	49	46	40	53
246330004	RE15-10-8306	55	60	59	58	63	85
246330005	RE15-10-8307	52	54	54	54	54	73
246330006	RE15-10-8309	61	64	66	63	70	92
246330007	RE15-10-8308	52	54	50	49	57	70
246330008	RE15-10-8301	60	63	63	62	71	96
246330009	RE15-10-8300	34	34	31	22 *	29 *	44
246330010	RE15-10-8324	53	57	57	57	58	76
1202046006	MB for batch 954449	53	55	45	55	62	74
1202046007	LCS for batch 954449	77	78	76	81	92	93
246330009	RE15-10-8300RE	63	64	59	63	81	77

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

Page 1 of 8

SDG Number: 10-1567

Sample Type: Matrix Spike

Client ID: RE16-10-10123MS

Matrix: S

Lab Sample ID: 1202036799

%Moisture: 8.6

Instrument: MSD6.I

Analysis Date: 02/17/2010 01:39

Dilution: 1

Analyst: NAG1

Prep Batch ID: 950443

Inj. Vol: .5 uL

Batch ID: 950447

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
62-75-9	MS N-Methyl-N-nitrosomethylam	1820	0.00 U	432	24 *	27-98
108-95-2	MS Phenol	1820	0.00 U	760	42	33-94
95-57-8	MS 2-Chlorophenol	1820	0.00 U	756	42	29-96
106-46-7	MS 1,4-Dichlorobenzene	1820	0.00 U	584	32	27-96
621-64-7	MS N-Nitrosodipropylamine	1820	0.00 U	779	43	29-102
59-50-7	MS 4-Chloro-3-methylphenol	1820	0.00 U	942	52	29-110
83-32-9	MS Acenaphthene	1820	0.00 U	778	43	17-109
121-14-2	MS 2,4-Dinitrotoluene	1820	0.00 U	771	42	33-107
100-02-7	MS 4-Nitrophenol	1820	0.00 U	639	35	15-110
87-86-5	MS Pentachlorophenol	1820	0.00 U	765	42	23-110
129-00-0	MS Pyrene	1820	154	1140	54	24-118
110-86-1	MS Pyridine	1820	0.00 U	523	29	25-102
62-53-3	MS Aniline	1820	0.00 U	513	28	18-109
111-44-4	MS bis(2-Chloroethyl) ether	1820	0.00 U	592	33	29-96
541-73-1	MS 1,3-Dichlorobenzene	1820	0.00 U	580	32	26-97
100-51-6	MS Benzyl alcohol	1820	0.00 U	0.00	0 *	19-112
95-50-1	MS 1,2-Dichlorobenzene	1820	0.00 U	659	36	30-97
108-60-1	MS bis(2-Chloroisopropyl)ether	1820	0.00 U	707	39	28-103
95-48-7	MS o-Cresol	1820	0.00 U	836	46	32-107
65794-96-9	MS m,p-Cresols	1820	0.00 U	887	49	33-115
67-72-1	MS Hexachloroethane	1820	0.00 U	578	32	25-100
98-95-3	MS Nitrobenzene	1820	0.00 U	695	38	27-106

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 2 of 8

SDG Number: 10-1567

Sample Type: Matrix Spike

Client ID: RE16-10-10123MS

Matrix: S

Lab Sample ID: 1202036799

%Moisture: 8.6

Instrument: MSD6.I

Analysis Date: 02/17/2010 01:39

Dilution: 1

Analyst: NAG1

Prep Batch ID: 950443

Inj. Vol: .5 uL

Batch ID: 950447

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
78-59-1	MS Isophorone	1820	0.00 U	836	46	29-104
88-75-5	MS 2-Nitrophenol	1820	0.00 U	742	41	26-102
105-67-9	MS 2,4-Dimethylphenol	1820	0.00 U	826	45	22-104
111-91-1	MS bis(2-Chloroethoxy)methane	1820	0.00 U	737	40	27-101
120-83-2	MS 2,4-Dichlorophenol	1820	0.00 U	877	48	26-103
65-85-0	MS Benzoic acid	3640	0.00 U	986	27	13-131
91-20-3	MS Naphthalene	1820	0.00 U	705	39	23-103
106-47-8	MS 4-Chloroaniline	1820	0.00 U	552	30	26-103
87-68-3	MS Hexachlorobutadiene	1820	0.00 U	822	45	28-101
91-57-6	MS 2-Methylnaphthalene	1820	0.00 U	889	49	27-106
77-47-4	MS Hexachlorocyclopentadiene	1820	0.00 U	0.00	0 *	24-117
88-06-2	MS 2,4,6-Trichlorophenol	1820	0.00 U	848	47	26-105
95-95-4	MS 2,4,5-Trichlorophenol	1820	0.00 U	875	48	30-110
91-58-7	MS 2-Chloronaphthalene	1820	0.00 U	838	46	28-102
88-74-4	MS 2-Nitroaniline <i>o</i> -Nitroaniline	1820	0.00 U	713	39	33-106
99-09-2	MS 3-Nitroaniline <i>m</i> -Nitroaniline	1820	0.00 U	540	30 *	33-116
131-11-3	MS Dimethylphthalate	1820	0.00 U	880	48	38-113
606-20-2	MS 2,6-Dinitrotoluene	1820	0.00 U	770	42	29-107
208-96-8	MS Acenaphthylene	1820	0.00 U	842	46	25-108
51-28-5	MS 2,4-Dinitrophenol	1820	0.00 U	654	36	14-102
132-64-9	MS Dibenzofuran	1820	0.00 U	837	46	35-112
84-66-2	MS Diethylphthalate	1820	0.00 U	900	49	36-122

Semi-Volatile
Quality Control Summary
Spike Recovery Report

SDG Number: 10-1567

Sample Type: Matrix Spike

Client ID: RE16-10-10123MS

Matrix: S

Lab Sample ID: 1202036799

%Moisture: 8.6

Instrument: MSD6.I

Analysis Date: 02/17/2010 01:39

Dilution: 1

Analyst: NAG1

Prep Batch ID: 950443

Inj. Vol: .5 uL

Batch ID: 950447

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
86-73-7	MS Fluorene	1820	0.00 U	874	48	33-105
7005-72-3	MS 4-Chlorophenylphenylether	1820	0.00 U	879	48	30-110
534-52-1	MS 2-Methyl-4,6-dinitrophenol	1820	0.00 U	575	32	26-97
100-01-6	MS 4-Nitroaniline <i>p</i> -Nitroaniline	1820	0.00 U	622	34	28-135
122-39-4	MS Diphenylamine	1820	0.00 U	860	47	33-109
122-66-7	MS Azobenzene <i>1,2</i> -Diphenylhydrazine	1820	0.00 U	862	47	31-113
101-55-3	MS 4-Bromophenylphenylether	1820	0.00 U	878	48	31-109
118-74-1	MS Hexachlorobenzene	1820	0.00 U	875	48	37-99
85-01-8	MS Phenanthrene	1820	108	926	45	29-109
120-12-7	MS Anthracene	1820	18.9 J	887	48	19-118
84-74-2	MS Di-n-butylphthalate	1820	0.00 U	978	54	39-123
206-44-0	MS Fluoranthene	1820	139	903	42	33-114
85-68-7	MS Butylbenzylphthalate	1820	0.00 U	1170	64	35-131
56-55-3	MS Benzo(a)anthracene	1820	62.6	881	45	30-111
91-94-1	MS 3,3'-Dichlorobenzidine	1820	0.00 U	261	14 *	30-124
218-01-9	MS Chrysene	1820	57.0	889	46	32-108
117-81-7	MS bis(2-Ethylhexyl)phthalate	1820	0.00 U	1160	64	37-129
117-84-0	MS Di-n-octylphthalate	1820	0.00 U	1820	100	31-143
205-99-2	MS Benzo(b)fluoranthene	1820	34.6 J	1090	58	29-118
207-08-9	MS Benzo(k)fluoranthene	1820	28.6 J	1120	60	32-118
50-32-8	MS Benzo(a)pyrene	1820	32.0 J	1010	54	33-115
193-39-5	MS Indeno(1,2,3-cd)pyrene	1820	130	718	32	29-114

Semi-Volatile

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1567

Sample Type: Matrix Spike

Client ID: RE16-10-10123MS

Matrix: S

Lab Sample ID: 1202036799

% Moisture: 8.6

Instrument: MSD6.I

Analysis Date: 02/17/2010 01:39

Dilution: 1

Analyst: NAG1

Prep Batch ID: 950443

Inj. Vol: .5 uL

Batch ID: 950447

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	1820	0.00 U	744	41	27-119
191-24-2	MS Benzo(ghi)perylene	1820	28.8 J	614	32	28-112
120-82-1	MS 1,2,4-Trichlorobenzene	1820	0.00 U	783	43	28-99

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-1567

Sample Type: Matrix Spike Duplicate

Client ID: RE16-10-10123MSD

Matrix: S

Lab Sample ID:1202036800

%Moisture: 8.6

Instrument: MSD6.J

Analysis Date: 02/17/2010 23:10

Dilution: 1

Analyst: NAG1

Pre Batch ID: 950443

Inj. Vol: .5 uL

Batch ID: 950447

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	1820	0.00 U	316	17 *	27-98	31 *	0-30
108-95-2	MSD Phenol	1820	0.00 U	622	34	33-94	20	0-30
95-57-8	MSD 2-Chlorophenol	1820	0.00 U	579	32	29-96	27	0-30
106-46-7	MSD 1,4-Dichlorobenzene	1820	0.00 U	404	22 *	27-96	37 *	0-30
621-64-7	MSD N-Nitrosodipropylamine	1820	0.00 U	617	34	29-102	23	0-30
59-50-7	MSD 4-Chloro-3-methylphenol	1820	0.00 U	914	50	29-110	3	0-30
83-32-9	MSD Acenaphthene	1820	0.00 U	803	44	17-109	3	0-30
121-14-2	MSD 2,4-Dinitrotoluene	1820	0.00 U	871	48	33-107	12	0-30
100-02-7	MSD 4-Nitrophenol	1820	0.00 U	525	29	15-110	20	0-30
87-86-5	MSD Pentachlorophenol	1820	0.00 U	871	48	23-110	13	0-30
129-00-0	MSD Pyrene	1820	154	1120	53	24-118	2	0-30
110-86-1	MSD Pyridine	1820	0.00 U	347	19 *	25-102	40 *	0-30
62-53-3	MSD Aniline	1820	0.00 U	465	26	18-109	10	0-30
111-44-4	MSD bis(2-Chloroethyl) ether	1820	0.00 U	402	22 *	29-96	38 *	0-30
541-73-1	MSD 1,3-Dichlorobenzene	1820	0.00 U	399	22 *	26-97	37 *	0-30
100-51-6	MSD Benzyl alcohol	1820	0.00 U	371	20	19-112	200 *	0-30
95-50-1	MSD 1,2-Dichlorobenzene	1820	0.00 U	465	26 *	30-97	35 *	0-30
108-60-1	MSD bis(2-Chloroisopropyl)ether	1820	0.00 U	514	28	28-103	32 *	0-30
95-48-7	MSD o-Cresol	1820	0.00 U	697	38	32-107	18	0-30
65794-96-9	MSD m,p-Cresols	1820	0.00 U	742	41	33-115	18	0-30
67-72-1	MSD Hexachloroethane	1820	0.00 U	479	26	25-100	19	0-30
98-95-3	MSD Nitrobenzene	1820	0.00 U	511	28	27-106	31 *	0-30

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-1567

Sample Type: Matrix Spike Duplicate

Client ID: RE16-10-10123MSD

Matrix: S

Lab Sample ID: 1202036800

%Moisture: 8.6

Instrument: MSD6.I

Analysis Date: 02/17/2010 23:10

Dilution: 1

Analyst: NAG1

Prep Batch II 950443

Inj. Vol: .5 uL

Batch ID: 950447

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
78-59-1	MSD Isophorone	1820	0.00 U	713	39	29-104	16	0-30
88-75-5	MSD 2-Nitrophenol	1820	0.00 U	598	33	26-102	22	0-30
105-67-9	MSD 2,4-Dimethylphenol	1820	0.00 U	749	41	22-104	10	0-30
111-91-1	MSD bis(2-Chloroethoxy)methane	1820	0.00 U	581	32	27-101	24	0-30
120-83-2	MSD 2,4-Dichlorophenol	1820	0.00 U	843	46	26-103	4	0-30
65-85-0	MSD Benzoic acid	3640	0.00 U	591	16	13-131	50 *	0-30
91-20-3	MSD Naphthalene	1820	0.00 U	577	32	23-103	20	0-30
106-47-8	MSD 4-Chloroaniline	1820	0.00 U	564	31	26-103	2	0-30
87-68-3	MSD Hexachlorobutadiene	1820	0.00 U	723	40	28-101	13	0-30
91-57-6	MSD 2-Methylnaphthalene	1820	0.00 U	767	42	27-106	15	0-30
77-47-4	MSD Hexachlorocyclopentadiene	1820	0.00 U	276	15 *	24-117	200 *	0-30
88-06-2	MSD 2,4,6-Trichlorophenol	1820	0.00 U	890	49	26-105	5	0-30
95-95-4	MSD 2,4,5-Trichlorophenol	1820	0.00 U	887	49	30-110	1	0-30
91-58-7	MSD 2-Chloronaphthalene	1820	0.00 U	813	45	28-102	3	0-30
88-74-4	MSD 2-Nitroaniline <i>o</i> -Nitroaniline	1820	0.00 U	784	43	33-106	9	0-30
99-09-2	MSD 3-Nitroaniline <i>m</i> -Nitroaniline	1820	0.00 U	659	36	33-116	20	0-30
131-11-3	MSD Dimethylphthalate	1820	0.00 U	895	49	38-113	2	0-30
606-20-2	MSD 2,6-Dinitrotoluene	1820	0.00 U	831	46	29-107	8	0-30
208-96-8	MSD Acenaphthylene	1820	0.00 U	844	46	25-108	0	0-30
51-28-5	MSD 2,4-Dinitrophenol	1820	0.00 U	777	43	14-102	17	0-30
132-64-9	MSD Dibenzofuran	1820	0.00 U	856	47	35-112	2	0-30
84-66-2	MSD Diethylphthalate	1820	0.00 U	942	52	36-122	5	0-30

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-1567

Sample Type: Matrix Spike Duplicate

Client ID: RE16-10-10123MSD

Matrix: S

Lab Sample ID: 1202036800

%Moisture: 8.6

Instrument: MSD6.I

Analysis Date: 02/17/2010 23:10

Dilution: 1

Analyst: NAG1

Pren Batch II 950443

Inj. Vol: .5 uL

Batch ID: 950447

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	1820	0.00 U	914	50	33-105	4	0-30
7005-72-3	MSD 4-Chlorophenylphenylether	1820	0.00 U	904	50	30-110	3	0-30
534-52-1	MSD 2-Methyl-4,6-dinitrophenol	1820	0.00 U	870	48	26-97	41 *	0-30
100-01-6	MSD 4-Nitroaniline <i>p-Nitroaniline</i>	1820	0.00 U	723	40	28-135	15	0-30
122-39-4	MSD Diphenylamine	1820	0.00 U	910	50	33-109	6	0-30
122-66-7	MSD Azobenzene <i>1,2-Diphenylhydrazine</i>	1820	0.00 U	910	50	31-113	5	0-30
101-55-3	MSD 4-Bromophenylphenylether	1820	0.00 U	937	51	31-109	6	0-30
118-74-1	MSD Hexachlorobenzene	1820	0.00 U	1000	55	37-99	14	0-30
85-01-8	MSD Phenanthrene	1820	108	1000	49	29-109	8	0-30
120-12-7	MSD Anthracene	1820	18.9 J	966	52	19-118	8	0-30
84-74-2	MSD Di-n-butylphthalate	1820	0.00 U	1040	57	39-123	6	0-30
206-44-0	MSD Fluoranthene	1820	139	1040	50	33-114	14	0-30
85-68-7	MSD Butylbenzylphthalate	1820	0.00 U	1150	63	35-131	2	0-30
56-55-3	MSD Benzo(a)anthracene	1820	62.6	965	50	30-111	9	0-30
91-94-1	MSD 3,3'-Dichlorobenzidine	1820	0.00 U	266	15 *	30-124	2	0-30
218-01-9	MSD Chrysene	1820	57.0	980	51	32-108	10	0-30
117-81-7	MSD bis(2-Ethylhexyl)phthalate	1820	0.00 U	1120	61	37-129	4	0-30
117-84-0	MSD Di-n-octylphthalate	1820	0.00 U	1630	89	31-143	11	0-30
205-99-2	MSD Benzo(b)fluoranthene	1820	34.6 J	1210	65	29-118	11	0-30
207-08-9	MSD Benzo(k)fluoranthene	1820	28.6 J	1170	63	32-118	5	0-30
50-32-8	MSD Benzo(a)pyrene	1820	32.0 J	1120	60	33-115	10	0-30
193-39-5	MSD Indeno(1,2,3-cd)pyrene	1820	130	806	37	29-114	12	0-30

Semi-Volatile

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1567

Sample Type: Matrix Spike Duplicate

Client ID: RE16-10-10123MSD

Matrix: S

Lab Sample ID: 1202036800

% Moisture: 8.6

Instrument: MSD6.I

Analysis Date: 02/17/2010 23:10

Dilution: 1

Analyst: NAG1

Pre Batch ID: 950443

Inj. Vol: .5 uL

Batch ID: 950447

CAS No	Parname	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	1820	0.00	U	784	43	27-119	5	0-30
191-24-2	MSD Benzo(ghi)perylene	1820	28.8	J	720	38	28-112	16	0-30
120-82-1	MSD 1,2,4-Trichlorobenzene	1820	0.00	U	646	35	28-99	19	0-30

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 4

SDG Number: 10-1567

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 950443

Matrix: SOIL

Lab Sample ID: 1202036801

Instrument: MSD6.I

Analysis Date: 02/16/2010 15:23

Dilution: 1

Analyst: NAG1

Pre Batch II 950443

Inj. Vol: .5 uL

Batch ID: 950447

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	853	51	22-114
108-95-2	LCS Phenol	1670	0.0	1120	67	39-104
95-57-8	LCS 2-Chlorophenol	1670	0.0	1130	68	40-107
106-46-7	LCS 1,4-Dichlorobenzene	1670	0.0	1070	64	33-108
621-64-7	LCS N-Nitrosodipropylamine	1670	0.0	1160	69	34-113
59-50-7	LCS 4-Chloro-3-methylphenol	1670	0.0	1340	80	42-114
83-32-9	LCS Acenaphthene	1670	0.0	1130	68	40-105
121-14-2	LCS 2,4-Dinitrotoluene	1670	0.0	1270	76	49-112
100-02-7	LCS 4-Nitrophenol	1670	0.0	951	57	24-113
87-86-5	LCS Pentachlorophenol	1670	0.0	1150	69	27-116
129-00-0	LCS Pyrene	1670	0.0	1210	73	42-113
110-86-1	LCS Pyridine	1670	0.0	957	57	8-125
62-53-3	LCS Aniline	1670	0.0	982	59	18-126
111-44-4	LCS bis(2-Chloroethyl) ether	1670	0.0	976	59	32-103
541-73-1	LCS 1,3-Dichlorobenzene	1670	0.0	1060	64	32-108
100-51-6	LCS Benzyl alcohol	1670	0.0	666	40	27-108
95-50-1	LCS 1,2-Dichlorobenzene	1670	0.0	1120	67	35-111
108-60-1	LCS bis(2-Chloroisopropyl)ether	1670	0.0	1070	64	28-117
95-48-7	LCS o-Cresol	1670	0.0	1130	68	39-111
65794-96-9	LCS m,p-Cresols	1670	0.0	1250	75	45-121
67-72-1	LCS Hexachloroethane	1670	0.0	1070	64	30-109
98-95-3	LCS Nitrobenzene	1670	0.0	1120	67	33-116

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 2 of 4

SDG Number: 10-1567

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 950443

Matrix: SOIL

Lab Sample ID: 1202036801

Instrument: MSD6.I

Analysis Date: 02/16/2010 15:23

Dilution: 1

Analyst: NAG1

Pre Batch II 950443

Inj. Vol: .5 uL

Batch ID: 950447

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	1200	72	35-113
88-75-5	LCS 2-Nitrophenol	1670	0.0	1250	75	31-117
105-67-9	LCS 2,4-Dimethylphenol	1670	0.0	1080	65	32-112
111-91-1	LCS bis(2-Chloroethoxy)methane	1670	0.0	1120	67	34-110
120-83-2	LCS 2,4-Dichlorophenol	1670	0.0	1290	77	34-116
65-85-0	LCS Benzoic acid	3330	0.0	3100	93	22-138
91-20-3	LCS Naphthalene	1670	0.0	1080	65	35-103
106-47-8	LCS 4-Chloroaniline	1670	0.0	944	57	20-118
87-68-3	LCS Hexachlorobutadiene	1670	0.0	1330	80	31-117
91-57-6	LCS 2-Methylnaphthalene	1670	0.0	1290	78	38-115
77-47-4	LCS Hexachlorocyclopentadiene	1670	0.0	743	45	22-140
88-06-2	LCS 2,4,6-Trichlorophenol	1670	0.0	1230	74	40-110
95-95-4	LCS 2,4,5-Trichlorophenol	1670	0.0	1270	76	43-113
91-58-7	LCS 2-Chloronaphthalene	1670	0.0	1240	74	37-111
88-74-4	LCS 2-Nitroaniline <i>o</i> -Nitroaniline	1670	0.0	1120	67	41-113
99-09-2	LCS 3-Nitroaniline <i>m</i> -Nitroaniline	1670	0.0	1000	60	34-125
131-11-3	LCS Dimethylphthalate	1670	0.0	1260	75	48-122
606-20-2	LCS 2,6-Dinitrotoluene	1670	0.0	1190	71	47-107
208-96-8	LCS Acenaphthylene	1670	0.0	1210	73	44-110
51-28-5	LCS 2,4-Dinitrophenol	1670	0.0	1280	77	18-127
132-64-9	LCS Dibenzofuran	1670	0.0	1210	72	49-115
84-66-2	LCS Diethylphthalate	1670	0.0	1310	78	51-126

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 3 of 4

SDG Number: 10-1567

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 950443

Matrix: SOIL

Lab Sample ID: 1202036801

Instrument: MSD6.I

Analysis Date: 02/16/2010 15:23

Dilution: 1

Analyst: NAG1

Prep Batch II 950443

Inj. Vol: .5 uL

Batch ID: 950447

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	1260	76	43-109
7005-72-3	LCS 4-Chlorophenylphenylether	1670	0.0	1260	76	45-115
534-52-1	LCS 2-Methyl-4,6-dinitrophenol	1670	0.0	1260	75	32-117
100-01-6	LCS 4-Nitroaniline <i>p</i> -Nitroaniline	1670	0.0	1030	62	33-148
122-39-4	LCS Diphenylamine	1670	0.0	1200	72	46-114
122-66-7	LCS Azobenzene <i>1,2</i> -Diphenylhydrazine	1670	0.0	1210	73	38-123
101-55-3	LCS 4-Bromophenylphenylether	1670	0.0	1240	74	40-119
118-74-1	LCS Hexachlorobenzene	1670	0.0	1320	79	43-111
85-01-8	LCS Phenanthrene	1670	0.0	1250	75	46-107
120-12-7	LCS Anthracene	1670	0.0	1260	76	46-110
84-74-2	LCS Di-n-butylphthalate	1670	0.0	1360	82	52-132
206-44-0	LCS Fluoranthene	1670	0.0	1350	81	51-115
85-68-7	LCS Butylbenzylphthalate	1670	0.0	1350	81	47-137
56-55-3	LCS Benzo(a)anthracene	1670	0.0	1270	76	50-108
91-94-1	LCS 3,3'-Dichlorobenzidine	1670	0.0	943	57	36-103
218-01-9	LCS Chrysene	1670	0.0	1280	77	48-111
117-81-7	LCS bis(2-Ethylhexyl)phthalate	1670	0.0	1410	85	48-139
117-84-0	LCS Di-n-octylphthalate	1670	0.0	1460	88	42-141
205-99-2	LCS Benzo(b)fluoranthene	1670	0.0	1380	83	49-114
207-08-9	LCS Benzo(k)fluoranthene	1670	0.0	1390	83	50-116
50-32-8	LCS Benzo(a)pyrene	1670	0.0	1430	86	54-114
193-39-5	LCS Indeno(1,2,3-cd)pyrene	1670	0.0	1280	77	53-120

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-1567

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 950443

Matrix: SOIL

Lab Sample ID: 1202036801

Instrument: MSD6.I

Analysis Date: 02/16/2010 15:23

Dilution: 1

Analyst: NAG1

Pre Batch ID: 950443

Inj. Vol: .5 uL

Batch ID: 950447

CAS No	Paramname	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	1270	76	53-121
191-24-2	LCS Benzo(ghi)perylene	1670	0.0	1300	78	50-121
120-82-1	LCS 1,2,4-Trichlorobenzene	1670	0.0	1260	76	32-114

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 4

SDG Number: 10-1567

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 954449

Matrix: SOIL

Lab Sample ID:1202046007

Instrument: MSD4.I

Analysis Date: 02/18/2010 19:14

Dilution: 1

Analyst: JMB3

Pre Batch ID 954449

Inj. Vol: .5 uL

Batch ID: 954451

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	1050	63	22-114
108-95-2	LCS Phenol	1670	0.0	1340	80	39-104
95-57-8	LCS 2-Chlorophenol	1670	0.0	1370	82	40-107
106-46-7	LCS 1,4-Dichlorobenzene	1670	0.0	1140	68	33-108
621-64-7	LCS N-Nitrosodipropylamine	1670	0.0	1410	85	34-113
59-50-7	LCS 4-Chloro-3-methylphenol	1670	0.0	1360	82	42-114
83-32-9	LCS Acenaphthene	1670	0.0	1180	71	40-105
121-14-2	LCS 2,4-Dinitrotoluene	1670	0.0	1450	87	49-112
100-02-7	LCS 4-Nitrophenol	1670	0.0	1310	79	24-113
87-86-5	LCS Pentachlorophenol	1670	0.0	1430	86	27-116
129-00-0	LCS Pyrene	1670	0.0	1350	81	42-113
110-86-1	LCS Pyridine	1670	0.0	935	56	8-125
62-53-3	LCS Aniline	1670	0.0	1460	87	18-126
111-44-4	LCS bis(2-Chloroethyl) ether	1670	0.0	1240	75	32-103
541-73-1	LCS 1,3-Dichlorobenzene	1670	0.0	1100	66	32-108
100-51-6	LCS Benzyl alcohol	1670	0.0	1270	76	27-108
95-50-1	LCS 1,2-Dichlorobenzene	1670	0.0	1140	68	35-111
108-60-1	LCS bis(2-Chloroisopropyl)ether	1670	0.0	1330	80	28-117
95-48-7	LCS o-Cresol	1670	0.0	1410	84	39-111
65794-96-9	LCS m,p-Cresols	1670	0.0	1670	100	45-121
67-72-1	LCS Hexachloroethane	1670	0.0	1100	66	30-109
98-95-3	LCS Nitrobenzene	1670	0.0	1280	77	33-116

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 2 of 4

SDG Number: 10-1567

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 954449

Matrix: SOIL

Lab Sample ID: 1202046007

Instrument: MSD4.I

Analysis Date: 02/18/2010 19:14

Dilution: 1

Analyst: JMB3

Prep Batch ID: 954449

Inj. Vol: .5 uL

Batch ID: 954451

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	1270	76	35-113
88-75-5	LCS 2-Nitrophenol	1670	0.0	1230	74	31-117
105-67-9	LCS 2,4-Dimethylphenol	1670	0.0	1190	71	32-112
111-91-1	LCS bis(2-Chloroethoxy)methane	1670	0.0	1280	77	34-110
120-83-2	LCS 2,4-Dichlorophenol	1670	0.0	1340	80	34-116
65-85-0	LCS Benzoic acid	3330	0.0	2480	74	22-138
91-20-3	LCS Naphthalene	1670	0.0	1170	70	35-103
106-47-8	LCS 4-Chloroaniline	1670	0.0	1280	77	20-118
87-68-3	LCS Hexachlorobutadiene	1670	0.0	1190	71	31-117
91-57-6	LCS 2-Methylnaphthalene	1670	0.0	1340	80	38-115
77-47-4	LCS Hexachlorocyclopentadiene	1670	0.0	1310	79	22-140
88-06-2	LCS 2,4,6-Trichlorophenol	1670	0.0	1350	81	40-110
95-95-4	LCS 2,4,5-Trichlorophenol	1670	0.0	1500	90	43-113
91-58-7	LCS 2-Chloronaphthalene	1670	0.0	1330	80	37-111
88-74-4	LCS 2-Nitroaniline <i>o</i> -Nitroaniline	1670	0.0	1470	88	41-113
99-09-2	LCS 3-Nitroaniline <i>m</i> -Nitroaniline	1670	0.0	1540	92	34-125
131-11-3	LCS Dimethylphthalate	1670	0.0	1420	85	48-122
606-20-2	LCS 2,6-Dinitrotoluene	1670	0.0	1450	87	47-107
208-96-8	LCS Acenaphthylene	1670	0.0	1400	84	44-110
51-28-5	LCS 2,4-Dinitrophenol	1670	0.0	1380	83	18-127
132-64-9	LCS Dibenzofuran	1670	0.0	1390	83	49-115
84-66-2	LCS Diethylphthalate	1670	0.0	1450	87	51-126

Semi-Volatile
Quality Control Summary
Spike Recovery Report

SDG Number: 10-1567

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 954449

Matrix: SOIL

Lab Sample ID: 1202046007

Instrument: MSD4.I

Analysis Date: 02/18/2010 19:14

Dilution: 1

Analyst: JMB3

Pre Batch ID: 954449

Inj. Vol: .5 uL

Batch ID: 954451

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	1020	61	43-109
7005-72-3	LCS 4-Chlorophenylphenylether	1670	0.0	1350	81	45-115
534-52-1	LCS 2-Methyl-4,6-dinitrophenol	1670	0.0	1400	84	32-117
100-01-6	LCS 4-Nitroaniline <i>p</i> -Nitroaniline	1670	0.0	1810	109	33-148
122-39-4	LCS Diphenylamine	1670	0.0	1560	93	46-114
122-66-7	LCS Azobenzene <i>1,2</i> -Diphenylhydrazine	1670	0.0	1500	90	38-123
101-55-3	LCS 4-Bromophenylphenylether	1670	0.0	1330	80	40-119
118-74-1	LCS Hexachlorobenzene	1670	0.0	1350	81	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	1450	87	52-132
206-44-0	LCS Fluoranthene	1670	0.0	1370	82	51-115
85-68-7	LCS Butylbenzylphthalate	1670	0.0	1660	99	47-137
56-55-3	LCS Benzo(a)anthracene	1670	0.0	1330	80	50-108
91-94-1	LCS 3,3'-Dichlorobenzidine	1670	0.0	1380	83	36-103
218-01-9	LCS Chrysene	1670	0.0	1410	85	48-111
117-81-7	LCS bis(2-Ethylhexyl)phthalate	1670	0.0	1530	92	48-139
117-84-0	LCS Di-n-octylphthalate	1670	0.0	1410	84	42-141
205-99-2	LCS Benzo(b)fluoranthene	1670	0.0	1370	82	49-114
207-08-9	LCS Benzo(k)fluoranthene	1670	0.0	1390	83	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	1460	87	53-120

Semi-Volatile

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1567

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 954449

Matrix: SOIL

Lab Sample ID:1202046007

Instrument: MSD4.I

Analysis Date: 02/18/2010 19:14

Dilution: 1

Analyst: JMB3

Prep Batch ID: 954449

Inj. Vol: .5 uL

Batch ID: 954451

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	1490	89	53-121
191-24-2	LCS Benzo(ghi)perylene	1670	0.0	1430	86	50-121
120-82-1	LCS 1,2,4-Trichlorobenzene	1670	0.0	1220	73	32-114

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 8

SDG Number: 10-1567

Sample Type: Matrix Spike

Client ID: WST15-10-8940MS

Matrix: D

Lab Sample ID: 1202046052

%Moisture: 6.2

Instrument: MSD4.I

Analysis Date: 02/19/2010 03:21

Dilution: 1

Analyst: JMB3

Prep Batch ID: 954449

Inj. Vol: .5 uL

Batch ID: 954451

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
62-75-9	MS N-Methyl-N-nitrosomethylam	1770	0.00 U	756	43	27-98
108-95-2	MS Phenol	1770	0.00 U	401	23 *	33-94
95-57-8	MS 2-Chlorophenol	1770	0.00 U	74.5	4 *	29-96
106-46-7	MS 1,4-Dichlorobenzene	1770	0.00 U	757	43	27-96
621-64-7	MS N-Nitrosodipropylamine	1770	0.00 U	1020	58	29-102
59-50-7	MS 4-Chloro-3-methylphenol	1770	0.00 U	277	16 *	29-110
83-32-9	MS Acenaphthene	1770	0.00 U	879	50	17-109
121-14-2	MS 2,4-Dinitrotoluene	1770	0.00 U	1040	59	33-107
100-02-7	MS 4-Nitrophenol	1770	0.00 U	0.00	0 *	15-110
87-86-5	MS Pentachlorophenol	1770	0.00 U	0.00	0 *	23-110
129-00-0	MS Pyrene	1770	305	1360	59	24-118
110-86-1	MS Pyridine	1770	0.00 U	669	38	25-102
62-53-3	MS Aniline	1770	0.00 U	1010	57	18-109
111-44-4	MS bis(2-Chloroethyl) ether	1770	0.00 U	857	48	29-96
541-73-1	MS 1,3-Dichlorobenzene	1770	0.00 U	720	41	26-97
100-51-6	MS Benzyl alcohol	1770	0.00 U	929	52	19-112
95-50-1	MS 1,2-Dichlorobenzene	1770	0.00 U	804	45	30-97
108-60-1	MS bis(2-Chloroisopropyl)ether	1770	0.00 U	896	50	28-103
95-48-7	MS o-Cresol	1770	0.00 U	867	49	32-107
65794-96-9	MS m,p-Cresols	1770	0.00 U	645	36	33-115
67-72-1	MS Hexachloroethane	1770	0.00 U	673	38	25-100
98-95-3	MS Nitrobenzene	1770	0.00 U	856	48	27-106

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 2 of 8

SDG Number: 10-1567

Sample Type: Matrix Spike

Client ID: WST15-10-8940MS

Matrix: D

Lab Sample ID: 1202046052

%Moisture: 6.2

Instrument: MSD4.I

Analysis Date: 02/19/2010 03:21

Dilution: 1

Analyst: JMB3

Pren Batch II 954449

Inj. Vol: .5 uL

Batch ID: 954451

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
78-59-1	MS Isophorone	1770	0.00 U	875	49	29-104
88-75-5	MS 2-Nitrophenol	1770	0.00 U	0.00	0 *	26-102
105-67-9	MS 2,4-Dimethylphenol	1770	0.00 U	728	41	22-104
111-91-1	MS bis(2-Chloroethoxy)methane	1770	0.00 U	880	50	27-101
120-83-2	MS 2,4-Dichlorophenol	1770	0.00 U	0.00	0 *	26-103
65-85-0	MS Benzoic acid	3550	0.00 U	0.00	0 *	13-131
91-20-3	MS Naphthalene	1770	0.00 U	790	44	23-103
106-47-8	MS 4-Chloroaniline	1770	0.00 U	981	55	26-103
87-68-3	MS Hexachlorobutadiene	1770	0.00 U	760	43	28-101
91-57-6	MS 2-Methylnaphthalene	1770	0.00 U	910	51	27-106
77-47-4	MS Hexachlorocyclopentadiene	1770	0.00 U	349	20 *	24-117
88-06-2	MS 2,4,6-Trichlorophenol	1770	0.00 U	0.00	0 *	26-105
95-95-4	MS 2,4,5-Trichlorophenol	1770	0.00 U	0.00	0 *	30-110
91-58-7	MS 2-Chloronaphthalene	1770	0.00 U	969	55	28-102
88-74-4	MS 2-Nitroaniline o-Nitroaniline	1770	0.00 U	1120	63	33-106
99-09-2	MS 3-Nitroaniline m-Nitroaniline	1770	0.00 U	1290	73	33-116
131-11-3	MS Dimethylphthalate	1770	0.00 U	1070	60	38-113
606-20-2	MS 2,6-Dinitrotoluene	1770	0.00 U	1040	58	29-107
208-96-8	MS Acenaphthylene	1770	27.9 J	1080	59	25-108
51-28-5	MS 2,4-Dinitrophenol	1770	0.00 U	0.00	0 *	14-102
132-64-9	MS Dibenzofuran	1770	0.00 U	1090	61	35-112
84-66-2	MS Diethylphthalate	1770	0.00 U	1090	62	36-122

Semi-Volatile
Quality Control Summary
Spike Recovery Report

SDG Number: 10-1567

Sample Type: Matrix Spike

Client ID: WST15-10-8940MS

Matrix: D

Lab Sample ID: 1202046052

%Moisture: 6.2

Instrument: MSD4.I

Analysis Date: 02/19/2010 03:21

Dilution: 1

Analyst: JMB3

Prep Batch ID: 954449

Inj. Vol: .5 uL

Batch ID: 954451

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
86-73-7	MS Fluorene	1770	12.9 J	933	52	33-105
7005-72-3	MS 4-Chlorophenylphenylether	1770	0.00 U	1070	61	30-110
534-52-1	MS 2-Methyl-4,6-dinitrophenol	1770	0.00 U	0.00	0 *	26-97
100-01-6	MS 4-Nitroaniline <i>p-Nitroaniline</i>	1770	0.00 U	1500	85	28-135
122-39-4	MS Diphenylamine	1770	0.00 U	1260	71	33-109
122-66-7	MS Azobenzene <i>1,2-Diphenylhydrazine</i>	1770	0.00 U	1220	69	31-113
101-55-3	MS 4-Bromophenylphenylether	1770	0.00 U	1100	62	31-109
118-74-1	MS Hexachlorobenzene	1770	0.00 U	1100	62	37-99
85-01-8	MS Phenanthrene	1770	228	1200	55	29-109
120-12-7	MS Anthracene	1770	45.3	1070	58	19-118
84-74-2	MS Di-n-butylphthalate	1770	0.00 U	1130	64	39-123
206-44-0	MS Fluoranthene	1770	385	1290	51	33-114
85-68-7	MS Butylbenzylphthalate	1770	0.00 U	1230	69	35-131
56-55-3	MS Benzo(a)anthracene	1770	171	1200	58	30-111
91-94-1	MS 3,3'-Dichlorobenzidine	1770	0.00 U	1070	60	30-124
218-01-9	MS Chrysene	1770	152	1140	56	32-108
117-81-7	MS bis(2-Ethylhexyl)phthalate	1770	0.00 U	1370	77	37-129
117-84-0	MS Di-n-octylphthalate	1770	0.00 U	1780	100	31-143
205-99-2	MS Benzo(b)fluoranthene	1770	284	1300	57	29-118
207-08-9	MS Benzo(k)fluoranthene	1770	0.00 U	1270	72	32-118
50-32-8	MS Benzo(a)pyrene	1770	140	1210	60	33-115
193-39-5	MS Indeno(1,2,3-cd)pyrene	1770	59.4	944	50	29-114

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 4 of 8

SDG Number: 10-1567

Client ID: WST15-10-8940MS

Lab Sample ID: 1202046052

Instrument: MSD4.I

Analyst: JMB3

Inj. Vol: .5 uL

Sample Type: Matrix Spike

Matrix: D

%Moisture: 6.2

Analysis Date: 02/19/2010 03:21

Dilution: 1

Pre Batch ID: 954449

Batch ID: 954451

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	1770	21.3	J	965	53	27-119
191-24-2	MS Benzo(ghi)perylene	1770	61.5		883	46	28-112
120-82-1	MS 1,2,4-Trichlorobenzene	1770	0.00	U	806	45	28-99

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-1567

Sample Type: Matrix Spike Duplicate

Client ID: WST15-10-8940MSD

Matrix: D

Lab Sample ID: 1202046053

% Moisture: 6.2

Instrument: MSD4.I

Analysis Date: 02/19/2010 03:43

Dilution: 1

Analyst: JMB3

Prep Batch ID: 954449

Inj. Vol: .5 uL

Batch ID: 954451

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	1780	0.00	U	759	43	27-98	0	0-30
108-95-2	MSD Phenol	1780	0.00	U	368	21 *	33-94	9	0-30
95-57-8	MSD 2-Chlorophenol	1780	0.00	U	0.00	0 *	29-96	200 *	0-30
106-46-7	MSD 1,4-Dichlorobenzene	1780	0.00	U	816	46	27-96	8	0-30
621-64-7	MSD N-Nitrosodipropylamine	1780	0.00	U	1050	59	29-102	3	0-30
59-50-7	MSD 4-Chloro-3-methylphenol	1780	0.00	U	232	13 *	29-110	18	0-30
83-32-9	MSD Acenaphthene	1780	0.00	U	895	50	17-109	2	0-30
121-14-2	MSD 2,4-Dinitrotoluene	1780	0.00	U	984	55	33-107	6	0-30
100-02-7	MSD 4-Nitrophenol	1780	0.00	U	0.00	0 *	15-110	0	0-30
87-86-5	MSD Pentachlorophenol	1780	0.00	U	0.00	0 *	23-110	0	0-30
129-00-0	MSD Pyrene	1780	305		1350	59	24-118	1	0-30
110-86-1	MSD Pyridine	1780	0.00	U	678	38	25-102	1	0-30
62-53-3	MSD Aniline	1780	0.00	U	1040	59	18-109	3	0-30
111-44-4	MSD bis(2-Chloroethyl) ether	1780	0.00	U	897	51	29-96	5	0-30
541-73-1	MSD 1,3-Dichlorobenzene	1780	0.00	U	780	44	26-97	8	0-30
100-51-6	MSD Benzyl alcohol	1780	0.00	U	864	49	19-112	7	0-30
95-50-1	MSD 1,2-Dichlorobenzene	1780	0.00	U	862	49	30-97	7	0-30
108-60-1	MSD bis(2-Chloroisopropyl)ether	1780	0.00	U	953	54	28-103	6	0-30
95-48-7	MSD o-Cresol	1780	0.00	U	868	49	32-107	0	0-30
65794-96-9	MSD m,p-Cresols	1780	0.00	U	638	36	33-115	1	0-30
67-72-1	MSD Hexachloroethane	1780	0.00	U	695	39	25-100	3	0-30
98-95-3	MSD Nitrobenzene	1780	0.00	U	880	50	27-106	3	0-30

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-1567

Sample Type: Matrix Spike Duplicate

Client ID: WST15-10-8940MSD

Matrix: D

Lab Sample ID: 1202046053

%Moisture: 6.2

Instrument: MSD4.I

Analysis Date: 02/19/2010 03:43

Dilution: 1

Analyst: JMB3

Pre Batch ID: 954449

Inj. Vol: .5 uL

Batch ID: 954451

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
78-59-1	MSD Isophorone	1780	0.00 U	887	50	29-104	1	0-30
88-75-5	MSD 2-Nitrophenol	1780	0.00 U	0.00	0 *	26-102	0	0-30
105-67-9	MSD 2,4-Dimethylphenol	1780	0.00 U	701	39	22-104	4	0-30
111-91-1	MSD bis(2-Chloroethoxy)methane	1780	0.00 U	926	52	27-101	5	0-30
120-83-2	MSD 2,4-Dichlorophenol	1780	0.00 U	0.00	0 *	26-103	0	0-30
65-85-0	MSD Benzoic acid	3550	0.00 U	0.00	0 *	13-131	0	0-30
91-20-3	MSD Naphthalene	1780	0.00 U	830	47	23-103	5	0-30
106-47-8	MSD 4-Chloroaniline	1780	0.00 U	1030	58	26-103	5	0-30
87-68-3	MSD Hexachlorobutadiene	1780	0.00 U	798	45	28-101	5	0-30
91-57-6	MSD 2-Methylnaphthalene	1780	0.00 U	941	53	27-106	3	0-30
77-47-4	MSD Hexachlorocyclopentadiene	1780	0.00 U	233	13 *	24-117	40 *	0-30
88-06-2	MSD 2,4,6-Trichlorophenol	1780	0.00 U	0.00	0 *	26-105	0	0-30
95-95-4	MSD 2,4,5-Trichlorophenol	1780	0.00 U	0.00	0 *	30-110	0	0-30
91-58-7	MSD 2-Chloronaphthalene	1780	0.00 U	1010	57	28-102	4	0-30
88-74-4	MSD 2-Nitroaniline <i>o</i> -Nitroaniline	1780	0.00 U	1090	61	33-106	2	0-30
99-09-2	MSD 3-Nitroaniline <i>m</i> -Nitroaniline	1780	0.00 U	1230	69	33-116	5	0-30
131-11-3	MSD Dimethylphthalate	1780	0.00 U	1100	62	38-113	2	0-30
606-20-2	MSD 2,6-Dinitrotoluene	1780	0.00 U	1020	58	29-107	1	0-30
208-96-8	MSD Acenaphthylene	1780	27.9 J	1100	60	25-108	2	0-30
51-28-5	MSD 2,4-Dinitrophenol	1780	0.00 U	0.00	0 *	14-102	0	0-30
132-64-9	MSD Dibenzofuran	1780	0.00 U	1090	61	35-112	0	0-30
84-66-2	MSD Diethylphthalate	1780	0.00 U	1110	62	36-122	1	0-30

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-1567

Sample Type: Matrix Spike Duplicate

Client ID: WST15-10-8940MSD

Matrix: D

Lab Sample ID: 1202046053

%Moisture: 6.2

Instrument: MSD4.I

Analysis Date: 02/19/2010 03:43

Dilution: 1

Analyst: JMB3

Prep Batch ID: 954449

Inj. Vol: .5 uL

Batch ID: 954451

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	1780	12.9 J	970	54	33-105	4	0-30
7005-72-3	MSD 4-Chlorophenylphenylether	1780	0.00 U	1070	60	30-110	1	0-30
534-52-1	MSD 2-Methyl-4,6-dinitrophenol	1780	0.00 U	0.00	0 *	26-97	0	0-30
100-01-6	MSD 4-Nitroaniline <i>p</i> -Nitroaniline	1780	0.00 U	1450	81	28-135	4	0-30
122-39-4	MSD Diphenylamine	1780	0.00 U	1210	68	33-109	4	0-30
122-66-7	MSD Azobenzene <i>1,2</i> -Diphenylhydrazine	1780	0.00 U	1160	65	31-113	5	0-30
101-55-3	MSD 4-Bromophenylphenylether	1780	0.00 U	1070	60	31-109	3	0-30
118-74-1	MSD Hexachlorobenzene	1780	0.00 U	1070	60	37-99	2	0-30
85-01-8	MSD Phenanthrene	1780	228	1170	53	29-109	3	0-30
120-12-7	MSD Anthracene	1780	45.3	1020	55	19-118	5	0-30
84-74-2	MSD Di-n-butylphthalate	1780	0.00 U	1120	63	39-123	1	0-30
206-44-0	MSD Fluoranthene	1780	385	1220	47	33-114	5	0-30
85-68-7	MSD Butylbenzylphthalate	1780	0.00 U	1220	69	35-131	1	0-30
56-55-3	MSD Benzo(a)anthracene	1780	171	1140	54	30-111	6	0-30
91-94-1	MSD 3,3'-Dichlorobenzidine	1780	0.00 U	1090	61	30-124	1	0-30
218-01-9	MSD Chrysene	1780	152	1150	56	32-108	1	0-30
117-81-7	MSD bis(2-Ethylhexyl)phthalate	1780	0.00 U	1380	78	37-129	1	0-30
117-84-0	MSD Di-n-octylphthalate	1780	0.00 U	1600	90	31-143	11	0-30
205-99-2	MSD Benzo(b)fluoranthene	1780	284	1330	59	29-118	2	0-30
207-08-9	MSD Benzo(k)fluoranthene	1780	0.00 U	1110	63	32-118	13	0-30
50-32-8	MSD Benzo(a)pyrene	1780	140	1150	57	33-115	5	0-30
193-39-5	MSD Indeno(1,2,3-cd)pyrene	1780	59.4	958	51	29-114	1	0-30

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 8 of 8

SDG Number: 10-1567

Sample Type: Matrix Spike Duplicate

Client ID: WST15-10-8940MSD

Matrix: D

Lab Sample ID: 1202046053

%Moisture: 6.2

Instrument: MSD4.I

Analysis Date: 02/19/2010 03:43

Dilution: 1

Analyst: JMB3

Pre Batch II 954449

Inj. Vol: .5 uL

Batch ID: 954451

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	1780	21.3	J	986	54	27-119	2	0-30
191-24-2	MSD Benzo(ghi)perylene	1780	61.5		893	47	28-112	1	0-30
120-82-1	MSD 1,2,4-Trichlorobenzene	1780	0.00	U	847	48	28-99	5	0-30

Method Blank Summary

Page 1 of 1

SDG Number:	10-1567	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 950443	Instrument ID:	MSD6.I	Data File:	s6b1610-1.d
Lab Sample ID:	1202036798	Prep Date:	02/09/2010 11:07	Analyzed:	02/16/10 14:55
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 950443	1202036801	s6b1611-1.d	02/16/10	1523
02 RE15-10-8304	246330002	s6b1620.d	02/16/10	1937
03 RE15-10-8305	246330003	s6b1621.d	02/16/10	2006
04 RE15-10-8306	246330004	s6b1622.d	02/16/10	2033
05 RE15-10-8307	246330005	s6b1623.d	02/16/10	2101
06 RE15-10-8309	246330006	s6b1624.d	02/16/10	2128
07 RE15-10-8308	246330007	s6b1625.d	02/16/10	2157
08 RE15-10-8301	246330008	s6b1626.d	02/16/10	2225
09 RE15-10-8300	246330009	s6b1627.d	02/16/10	2253
10 RE15-10-8324	246330010	s6b1628.d	02/16/10	2321

Method Blank Summary

Page 1 of 1

SDG Number:	10-1567	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 954449	Instrument ID:	MSD4.I	Data File:	s4b1823-1.d
Lab Sample ID:	1202046006	Prep Date:	02/18/2010 13:52	Analyzed:	02/18/10 18:52
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 954449	1202046007	s4b1824-1.d	02/18/10	1914
02 RE15-10-8300RE	246330009	s4b1842.d	02/19/10	0152

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1567

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: 10-1567

Instrument ID: MSD4.1

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: 10-1567

Instrument ID: MSD4.I

Injection Date/Time: 18-FEB-10 17:28

Column Description: Phenomenex ZB-5MS

Lab File ID /chem/MSD4.i/s021810a.b/s4b1819.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	40.8
68	Less than 2% of mass 69	1.3
69	Mass 69 Relative Abundance	45.5
70	Less than 2% of mass 69	0.3
127	40 - 60% of mass 198	57.1
197	0 - 1% of mass 198	0
199	5 - 9% of mass 198	7
275	10 - 30% of mass 198	21.5
365	Greater than 1% of mass 198	2.7
441	Present, but less than mass 443	84.4
442	Greater than 40% of mass 198	72.2
443	17 - 23% of mass 442	19.5

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	s4b1820.d	18-FEB-10 17:40
APCVS	WBN100103-03.2	s4b1821.d	18-FEB-10 18:07
SBLK02	1202046006	s4b1823-1.d	18-FEB-10 18:52
SBLK01LCS	1202046007	s4b1824-1.d	18-FEB-10 19:14
RE15-10-8300RE	246330009	s4b1842.d	19-FEB-10 01:52

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1567

Instrument ID: MSD6.I

Injection Date/Time: 09-NOV-09 18:00

Column Description: Phenomenex ZB-5MS

Lab File ID /chem/MSD6.i/s110909.b/s6k0911.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	45.4
68	Less than 2% of mass 69	1.6
69	Mass 69 Relative Abundance	43
70	Less than 2% of mass 69	0.5
127	40 - 60% of mass 198	51.4
197	0 - 1% of mass 198	0.6
199	5 - 9% of mass 198	6.9
275	10 - 30% of mass 198	23.7
365	Greater than 1% of mass 198	2.4
441	Present, but less than mass 443	73.9
442	Greater than 40% of mass 198	77.9
443	17 - 23% of mass 442	19.2

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
MEGAICAL	WBN091106-08	s6k0913.d	09-NOV-09 18:53
MEGAICAL	WBN091106-07	s6k0914.d	09-NOV-09 19:31
MEGAICAL	WBN091106-06	s6k0915.d	09-NOV-09 20:09
MEGAICAL	WBN091106-05.1	s6k0916.d	09-NOV-09 20:46
MEGAICAL	WBN091106-04	s6k0917.d	09-NOV-09 21:25
MEGAICAL	WBN091106-03	s6k0918.d	09-NOV-09 22:01
MEGAICAL	WBN091106-02	s6k0919.d	09-NOV-09 22:39
MEGAICAL	WBN091106-01	s6k0920.d	09-NOV-09 23:16

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1567

Instrument ID: MSD6.I

Injection Date/Time: 10-NOV-09 11:07

Column Description: Phenomenex ZB-5MS

Lab File ID /chem/MSD6.i/s110909.b/s6k0921.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	45.1
68	Less than 2% of mass 69	1.6
69	Mass 69 Relative Abundance	43.1
70	Less than 2% of mass 69	0.5
127	40 - 60% of mass 198	50.9
197	0 - 1% of mass 198	0.4
199	5 - 9% of mass 198	7
275	10 - 30% of mass 198	23.3
365	Greater than 1% of mass 198	2.6
441	Present, but less than mass 443	72.6
442	Greater than 40% of mass 198	76
443	17 - 23% of mass 442	19.9

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
AP12ICAL	WBN091016-01	s6k0923.d	10-NOV-09 11:59
AP12ICAL	WBN091016-02	s6k0924.d	10-NOV-09 12:36
AP12ICAL	WBN091016-03	s6k0925.d	10-NOV-09 13:13
AP12ICAL	WBN091016-04	s6k0926.d	10-NOV-09 13:51
AP12ICAL	WBN091016-05	s6k0927.d	10-NOV-09 14:30
AP12ICAL	WBN091016-06	s6k0928.d	10-NOV-09 15:06
AP12ICAL	WBN091016-07	s6k0929.d	10-NOV-09 15:43
MEGAICV	WBN091106-09.1	s6k0937.d	10-NOV-09 20:29
AP12ICV	WBN091016-08.1	s6k0938.d	10-NOV-09 21:07

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1567

Instrument ID: MSD6.I

Injection Date/Time: 16-FEB-10 13:45

Column Description: Phenomenex ZB-5MS

Lab File ID /chem/MSD6.i/s021610.b/s6b1607.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	39.2
68	Less than 2% of mass 69	1.5
69	Mass 69 Relative Abundance	39.7
70	Less than 2% of mass 69	0.6
127	40 - 60% of mass 198	50.3
197	0 - 1% of mass 198	0.6
199	5 - 9% of mass 198	6.7
275	10 - 30% of mass 198	22.2
365	Greater than 1% of mass 198	2.4
441	Present, but less than mass 443	74
442	Greater than 40% of mass 198	69.3
443	17 - 23% of mass 442	19.4

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
MEGACVS	WBN100215-09.1	s6b1608.d	16-FEB-10 13:59
APCVS	WBN100120-08.2	s6b1609.d	16-FEB-10 14:28
SBLK01	1202036798	s6b1610-1.d	16-FEB-10 14:55
SBLK01LCS	1202036801	s6b1611-1.d	16-FEB-10 15:23
RE15-10-8304	246330002	s6b1620.d	16-FEB-10 19:37
RE15-10-8305	246330003	s6b1621.d	16-FEB-10 20:06
RE15-10-8306	246330004	s6b1622.d	16-FEB-10 20:33
RE15-10-8307	246330005	s6b1623.d	16-FEB-10 21:01
RE15-10-8309	246330006	s6b1624.d	16-FEB-10 21:28
RE15-10-8308	246330007	s6b1625.d	16-FEB-10 21:57
RE15-10-8301	246330008	s6b1626.d	16-FEB-10 22:25
RE15-10-8300	246330009	s6b1627.d	16-FEB-10 22:53
RE15-10-8324	246330010	s6b1628.d	16-FEB-10 23:21

Internal Standard Area and RT Summary

Lab Name : GEL Laboratories LLC

Client SDG: 10-1567

Instrument: MSD4.I

STD Analysis Time: 18-FEB-10 17:40

GC Column: J&W DB-5MS

Data File: s4b1820.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	130619		3.94	531707		4.81	271432		6.06	411657		7.05	330407		8.78	278361		10.3
Upper Limit	261238		4.44	1063414		5.31	542864		6.56	823314		7.55	660814		9.28	556722		10.8
Lower Limit	65310		3.44	265854		4.31	135716		5.56	205829		6.55	165204		8.28	139181		9.82
Sample ID																		
BLK02	123065		3.93	478195		4.8	245170		6.06	387467		7.05	357355		8.75	323821		10.3
BLK02LCS	120283		3.94	488545		4.81	252695		6.06	398164		7.05	358458		8.76	347933		10.3
RE15-10-8300RE	136639		3.93	550740		4.8	287977		6.06	430831		7.05	336979		8.75	202462		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: 10-1567

Instrument: MSD6.J

STD Analysis Time: 16-FEB-10 13:59

GC Column: J&W DB-5MS

Data File: s6b1608.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	257565		4.65	1053168		5.92	574039		7.78	1015777		9.38	813328		12.3	637712		14.6
Upper Limit	515130		5.15	2106336		6.42	1148078		8.28	2031554		9.88	1626656		12.8	1275424		15.1
Lower Limit	128783		4.15	526584		5.42	287020		7.28	507889		8.88	406664		11.8	318856		14.1
Sample ID																		
BLK01	296752		4.65	1116908		5.91	636723		7.77	1097786		9.38	872751		12.3	697482		14.6
BLK01LCS	310119		4.65	1197163		5.92	677121		7.78	1200897		9.38	991382		12.3	807768		14.6
RE15-10-8304	283041		4.65	1064567		5.91	608948		7.78	1054015		9.38	754559		12.3	412750		14.6
RE15-10-8305	244704		4.65	936411		5.91	537369		7.77	930509		9.38	744780		12.3	478126		14.6
RE15-10-8306	324238		4.65	1211446		5.91	692111		7.78	1212984		9.38	828812		12.3	437887		14.6
RE15-10-8307	288352		4.65	1126534		5.91	625877		7.78	1083029		9.38	715209		12.3	394921		14.6
RE15-10-8309	321549		4.65	1209663		5.91	697841		7.78	1220188		9.38	851209		12.3	500230		14.6
RE15-10-8308	254768		4.65	973239		5.91	554581		7.77	982529		9.38	710388		12.3	438871		14.6
RE15-10-8301	276518		4.65	1014514		5.91	590815		7.78	1022308		9.38	741421		12.3	467172		14.6
RE15-10-8300	300911		4.65	1139735		5.92	647838		7.78	1121444		9.38	777357		12.3	463635		14.6
RE15-10-8324	235436		4.65	893999		5.91	516340		7.78	904013		9.38	608926		12.3	320640		14.6

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: 10-1567
Lab Sample ID: 246330009

Client ID: RE15-10-8300
Batch ID: 950447
Run Date: 02/16/2010 22:53
Prep Date: 02/09/2010 11:07
Data File: s6b1627.d

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.09 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 30.6
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
62-75-9	N-Methyl-N-nitrosomethylamine	U	479	ug/kg	95.8	479
108-95-2	Phenol	U	479	ug/kg	95.8	479
95-57-8	2-Chlorophenol	U	479	ug/kg	95.8	479
106-46-7	1,4-Dichlorobenzene	U	479	ug/kg	95.8	479
621-64-7	N-Nitrosodipropylamine	U	479	ug/kg	95.8	479
59-50-7	4-Chloro-3-methylphenol	U	479	ug/kg	95.8	479
83-32-9	Acenaphthene	U	47.9	ug/kg	15.8	47.9
121-14-2	2,4-Dinitrotoluene	U	479	ug/kg	47.9	479
100-02-7	4-Nitrophenol	U	479	ug/kg	158	479
87-86-5	Pentachlorophenol	U	479	ug/kg	120	479
129-00-0	Pyrene	U	47.9	ug/kg	14.4	47.9
110-86-1	Pyridine	U	479	ug/kg	95.8	479
62-53-3	Aniline	U	479	ug/kg	144	479
111-44-4	bis(2-Chloroethyl) ether	U	479	ug/kg	95.8	479
541-73-1	1,3-Dichlorobenzene	U	479	ug/kg	95.8	479
100-51-6	Benzyl alcohol	U	479	ug/kg	144	479
95-50-1	1,2-Dichlorobenzene	U	479	ug/kg	95.8	479
108-60-1	bis(2-Chloroisopropyl)ether	U	479	ug/kg	95.8	479
95-48-7	o-Cresol	U	479	ug/kg	95.8	479
65794-96-9	m,p-Cresols	U	479	ug/kg	144	479
67-72-1	Hexachloroethane	U	479	ug/kg	95.8	479
98-95-3	Nitrobenzene	U	479	ug/kg	95.8	479
78-59-1	Isophorone	U	479	ug/kg	95.8	479
88-75-5	2-Nitrophenol	U	479	ug/kg	95.8	479
105-67-9	2,4-Dimethylphenol	U	479	ug/kg	168	479
111-91-1	bis(2-Chloroethoxy)methane	U	479	ug/kg	95.8	479
120-83-2	2,4-Dichlorophenol	U	479	ug/kg	95.8	479
65-85-0	Benzoic acid	U	958	ug/kg	240	958
91-20-3	Naphthalene	U	47.9	ug/kg	14.4	47.9
106-47-8	4-Chloroaniline	U	479	ug/kg	95.8	479
87-68-3	Hexachlorobutadiene	U	479	ug/kg	95.8	479
91-57-6	2-Methylnaphthalene	U	47.9	ug/kg	9.58	47.9
77-47-4	Hexachlorocyclopentadiene	U	479	ug/kg	95.8	479
88-06-2	2,4,6-Trichlorophenol	U	479	ug/kg	95.8	479
95-95-4	2,4,5-Trichlorophenol	U	479	ug/kg	95.8	479
91-58-7	2-Chloronaphthalene	U	47.9	ug/kg	15.8	47.9
88-74-4	2-Nitroaniline	U	479	ug/kg	95.8	479
99-09-2	<i>o</i> -Nitroaniline	U	479	ug/kg	95.8	479
	3-Nitroaniline					

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330009	Date Received: 02/05/2010 09:00	%Moisture: 30.6
Client ID: RE15-10-8300	Client: LANL010	Project: LANL01004
Batch ID: 950447	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/16/2010 22:53	Inst: MSD6.1	Dilution: 1
Prep Date: 02/09/2010 11:07	Analyst: NAG1	Inj. Vol: .5 uL
Data File: s6b1627.d	Aliquot: 30.09 g	Final Volume: 1 mL
	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	479	ug/kg	95.8	479
606-20-2	2,6-Dinitrotoluene	U	479	ug/kg	47.9	479
208-96-8	Acenaphthylene	U	47.9	ug/kg	14.4	47.9
51-28-5	2,4-Dinitrophenol	U	958	ug/kg	182	958
132-64-9	Dibenzofuran	U	479	ug/kg	95.8	479
84-66-2	Diethylphthalate	U	479	ug/kg	95.8	479
86-73-7	Fluorene	U	47.9	ug/kg	14.4	47.9
7005-72-3	4-Chlorophenylphenylether	U	479	ug/kg	95.8	479
534-52-1	2-Methyl-4,6-dinitrophenol	U	479	ug/kg	95.8	479
100-01-6	4-Nitroaniline	U	479	ug/kg	144	479
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	479	ug/kg	95.8	479
122-66-7	Azobenzene	U	479	ug/kg	95.8	479
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	479	ug/kg	95.8	479
118-74-1	Hexachlorobenzene	U	479	ug/kg	95.8	479
85-01-8	Phenanthrene	U	47.9	ug/kg	14.4	47.9
120-12-7	Anthracene	U	47.9	ug/kg	9.58	47.9
84-74-2	Di-n-butylphthalate	U	479	ug/kg	95.8	479
206-44-0	Fluoranthene	U	47.9	ug/kg	14.4	47.9
85-68-7	Butylbenzylphthalate	U	479	ug/kg	95.8	479
56-55-3	Benzo(a)anthracene	U	47.9	ug/kg	14.4	47.9
91-94-1	3,3'-Dichlorobenzidine	U	479	ug/kg	144	479
218-01-9	Chrysene	U	47.9	ug/kg	14.4	47.9
117-81-7	bis(2-Ethylhexyl)phthalate	U	479	ug/kg	95.8	479
117-84-0	Di-n-octylphthalate	U	479	ug/kg	95.8	479
205-99-2	Benzo(b)fluoranthene	U	47.9	ug/kg	14.4	47.9
207-08-9	Benzo(k)fluoranthene	U	47.9	ug/kg	14.4	47.9
50-32-8	Benzo(a)pyrene	U	47.9	ug/kg	14.4	47.9
193-39-5	Indeno(1,2,3-cd)pyrene	U	47.9	ug/kg	14.4	47.9
53-70-3	Dibenzo(a,h)anthracene	U	47.9	ug/kg	14.4	47.9
191-24-2	Benzo(ghi)perylene	U	47.9	ug/kg	14.4	47.9
120-82-1	1,2,4-Trichlorobenzene	U	479	ug/kg	95.8	479

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	302	ug/kg		JA
79-92-5	Camphene	4.17	297	ug/kg	97	NJ

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

SDG Number: 10-1567
Lab Sample ID: 246330009

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.09 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 30.6
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
---------	----------	-----------	--------	-------	---------	---------

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
470-82-6	Eucalyptol	4.78	301	ug/kg	98	NJ
5655-61-8	Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimeth	6.5	223	ug/kg	97	NJ
	Unknown	10.64	226	ug/kg		J
	Unknown	10.73	315	ug/kg		J
	Unknown	10.78	248	ug/kg		J
5155-70-4	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	12.07	238	ug/kg	95	NJ
112-84-5	13-Docosenamide, (Z)-	13.5	741	ug/kg	96	NJ
593-49-7	Heptacosane	14.1	713	ug/kg	91	NJ
112-95-8	Eicosane	15.34	1140	ug/kg	96	NJ

Data File: /chem/MSD6.i/s021610.b/s6b1627.d
Report Date: 17-Feb-2010 07:49

Page 1

GEL Laboratories LLC

Data file : /chem/MSD6.i/s021610.b/s6b1627.d
Lab Smp Id: 246330009 Client Smp ID: RE15-10-8300
Inj Date : 16-FEB-2010 22:53
Operator : nagl Inst ID: MSD6.i
Smp Info : |246330009|950447|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
Meth Date : 16-Feb-2010 17:39 nat00999 Quant Type: ISTD
Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.sub
Target Version: 3.50
Processing Host: hpclpl

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	30.09000	weight of sample
M	30.64360	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN	FINAL
					(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	4.650	4.650 (1.000)	300911	40.0000	
* 29 Naphthalene-d8	136	5.917	5.917 (1.000)	1139735	40.0000	
* 46 Acenaphthene-d10	164	7.777	7.779 (1.000)	647838	40.0000	
* 67 Phenanthrene-d10	188	9.382	9.382 (1.000)	1121444	40.0000	
* 91 Chrysene-d12	240	12.333	12.338 (1.000)	777357	40.0000	
* 98 Perylene-d12	264	14.555	14.557 (1.000)	463635	40.0000	
\$ 3 2-Fluorophenol	112	3.514	3.496 (0.756)	254049	33.7137	1620
\$ 5 Phenol-d5	99	4.278	4.273 (0.920)	325399	34.2136	1640
\$ 20 Nitrobenzene-d5	82	5.180	5.185 (0.876)	125303	15.5416	745 (R)
\$ 39 2-Fluorobiphenyl	172	7.038	7.040 (0.905)	187372	11.2230	538 (R)
\$ 60 2,4,6-Tribromophenol	329	8.623	8.625 (1.109)	55024	29.0999	1390 (R)
\$ 81 p-Terphenyl-d14	244	11.087	11.087 (0.899)	273640	21.8280	1040

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ION RATIO REPORT

SV REPORT

Data file: s6b1627.d

Report Date: 02/17/2010 07:13

Lab. ID: 246330009

SampleType: SAMPLE

Injection Date: 16-FEB-2010 22:53

Operator: nagl

Instrument: MSD6.i

Sample Info: |246330009|950447|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01

Comment:

Method used: /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1567

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4 Aniline		CAS#: 62-53-3				
66	16511	4.28	4.34	80-120	100	(T)
93	10751	4.32	4.34	216-276	65	(Q)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	17548	5.18	5.02	80-120	100	(T)
42	11685	5.18	5.02	43-103	67	(T)

22 Isophorone		CAS#: 78-59-1				
82	125303	5.18	5.44	80-120	100	(T)
138	151	5.68	5.44	0- 49	0	(T)

25 bis(2-Chloroethoxy)methane		CAS#: 111-91-1				
93	20178	5.84	5.64	80-120	100	(T)
123	132	5.85	5.64	0- 45	1	(T)
95	91850	5.85	5.64	2- 62	455	(QT)

43 Dimethylphthalate		CAS#: 131-11-3				
163	115809	7.78	7.47	80-120	100	(T)
164	647838	7.78	7.47	0- 40	559	(QT)

48 2,4-Dinitrophenol		CAS#: 51-28-5				
184	220	8.26	7.85	80-120	100	(T)
154	172	7.83	7.85	19- 79	78	()

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
50 2,4-Dinitrotoluene				CAS#: 121-14-2		
165	83663	7.78	7.98	80-120	100	(T)
89	1167	7.78	7.98	45-105	1	(QT)
63	1096	7.78	7.98	24- 84	1	(QT)

52 4-Nitrophenol				CAS#: 100-02-7		
139	101	7.90	7.91	80-120	100	()
109	428	7.93	7.91	39- 99	424	(Q)
65	417	7.90	7.90	63-123	413	(Q)

55 2-Methyl-4,6-dinitrophenol				CAS#: 534-52-1		
198	239	8.62	8.42	80-120	100	(T)
105	403	8.58	8.42	12- 72	169	(QT)
51	508	8.62	8.42	27- 87	213	(QT)

56 p-Nitroaniline				CAS#: 100-01-6		
138	105	8.43	8.39	80-120	100	()
108	568	8.48	8.39	48-108	538	(QT)
92	199	8.39	8.39	17- 77	188	(Q)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/MSD6.i/s021610.b/s6b1627.d
Report Date: 17-Feb-2010 07:49

Page 1

GEL Laboratories LLC

Data file : /chem/MSD6.i/s021610.b/s6b1627.d
Lab Smp Id: 246330009 Client Smp ID: RE15-10-8300
Inj Date : 16-FEB-2010 22:53
Operator : nag1 Inst ID: MSD6.i
Smp Info : |246330009|950447|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
Meth Date : 16-Feb-2010 17:39 nat00999 Quant Type: ISTD
Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.sub
Target Version: 3.50
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	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.09000	weight of sample
M	30.64360	% moisture

Cpnd Variable

Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	4.650	1833471	40.000
* 29 Naphthalene-d8	5.917	2476077	40.000
* 67 Phenanthrene-d10	9.382	2792173	40.000
* 91 Chrysene-d12	12.333	2171607	40.000
* 98 Perylene-d12	14.555	1301717	40.000

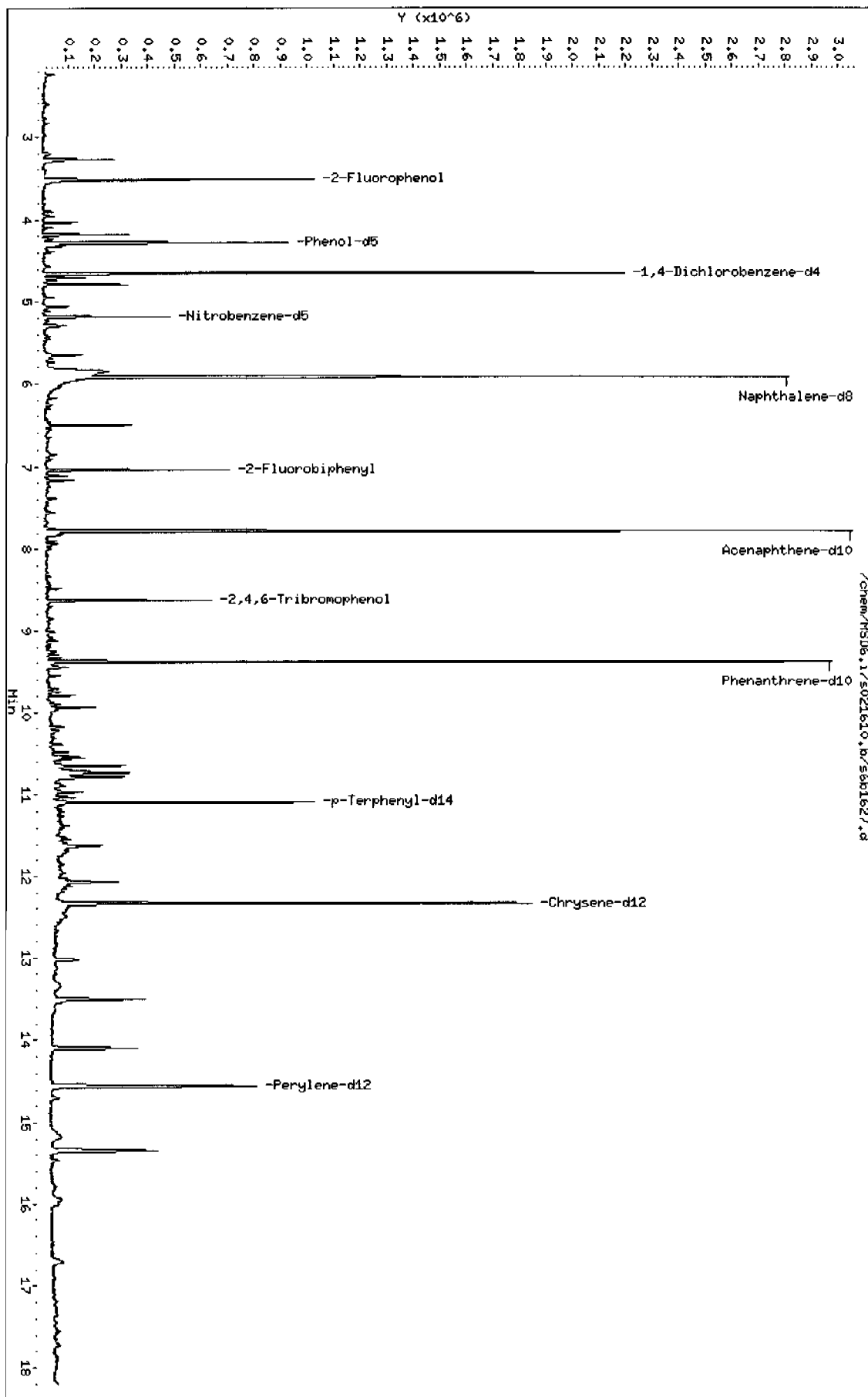
CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
====	====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate					CAS #:		
3.272	289040	6.30585005	302	0		0	10
Camphene					CAS #: 79-92-5		
4.174	284576	6.20845967	297	97	NIST05.L	15152	10
Eucalyptol					CAS #: 470-82-6		
4.783	287579	6.27397141	301	98	NIST05.L	25509	10
Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimeth					CAS #: 5655-61-8		
6.503	288704	4.66388619	223	97	NIST05.L	54340	29
Unknown					CAS #:		
10.643	329871	4.72565227	226	0		0	67
Unknown					CAS #:		
10.730	458597	6.56974702	315	0		0	67
Unknown					CAS #:		
10.781	360621	5.16617516	248	0		0	67
1-Phenanthrenecarboxylic acid, 1,2,3,4,4					CAS #: 5155-70-4		
12.068	269988	4.97304810	238	95	NIST05.L	125035	91
13-Docosenamide, (2)-					CAS #: 112-84-5		
13.502	503219	15.4632156	741	96	NIST05.L	146307	98
Heptacosane					CAS #: 593-49-7		
14.096	484069	14.8747743	713	91	NIST05.L	165300	98
Eicosane					CAS #: 112-95-8		
15.337	777242	23.8835814	1140	96	NIST05.L	113488	98

Data File: /chem/HSD6.i/s021610.b/s6b1627.d
Date: 16-FEB-2010 22:53
Client ID: RE15-10-8300
Sample Info: 1246330009195044711SWH11.LANL
Volume Injected (uL): 0.5
Column phase: J&W DB-5MS

Instrument: HSD6.i
Operator: nag1
Column diameter: 0.20

Page 1



Date : 16-FEB-2010 22:53

Client ID: RE15-10-8300

Instrument: HSD6.i

Sample Info: 1246330009195044711SVH11/LANL

Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match

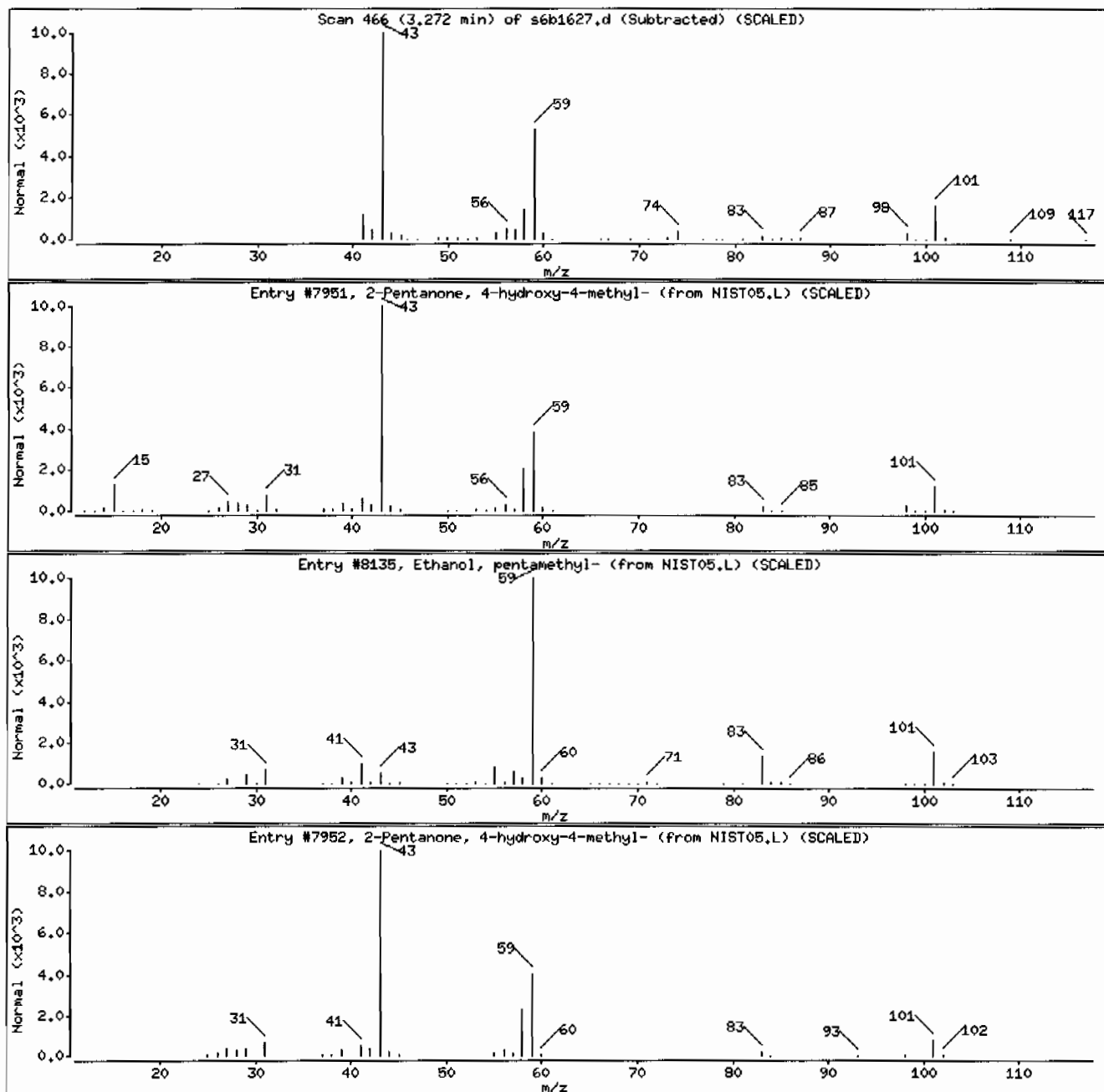
Unknown Aldol Condensate

2-Pentanone, 4-hydroxy-4-methyl-

Ethanol, pentamethyl-

2-Pentanone, 4-hydroxy-4-methyl-

CAS Number	Library	Entry	Quality	Formula	Weight
123-42-2	NIST05.L	7951	59	C6H12O2	116
594-83-2	NIST05.L	8135	40	C7H16O	116
123-42-2	NIST05.L	7952	38	C6H12O2	116



Date : 16-FEB-2010 22:53

Client ID: RE15-10-8300

Instrument: MSD6.i

Sample Info: I246330009195044711ISVM11ILANL

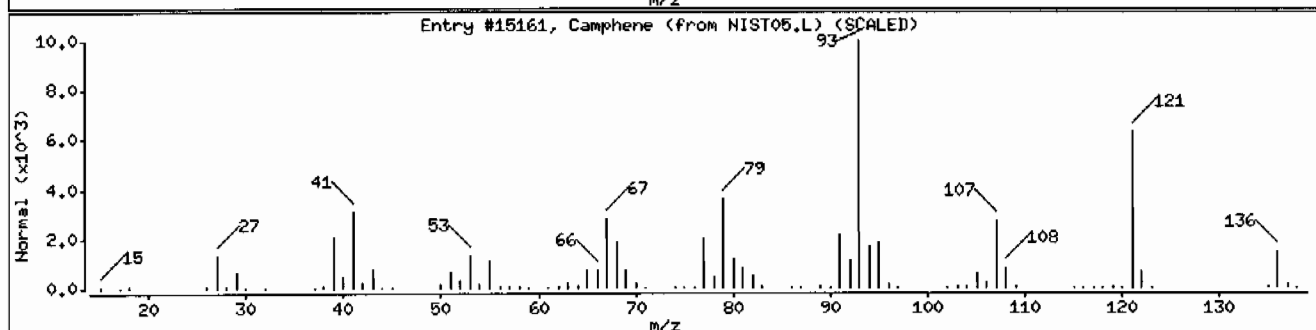
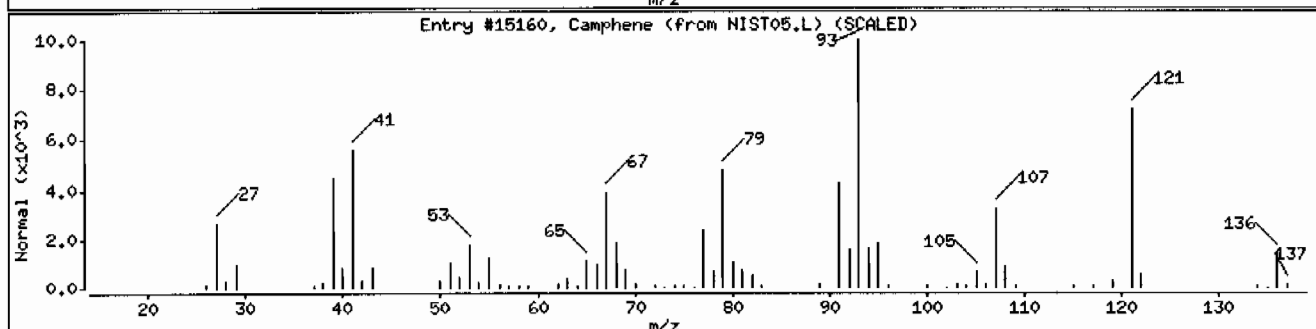
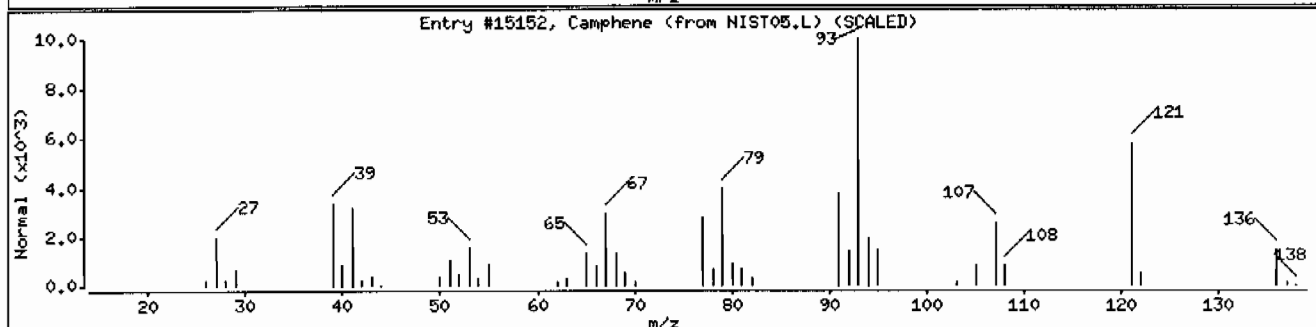
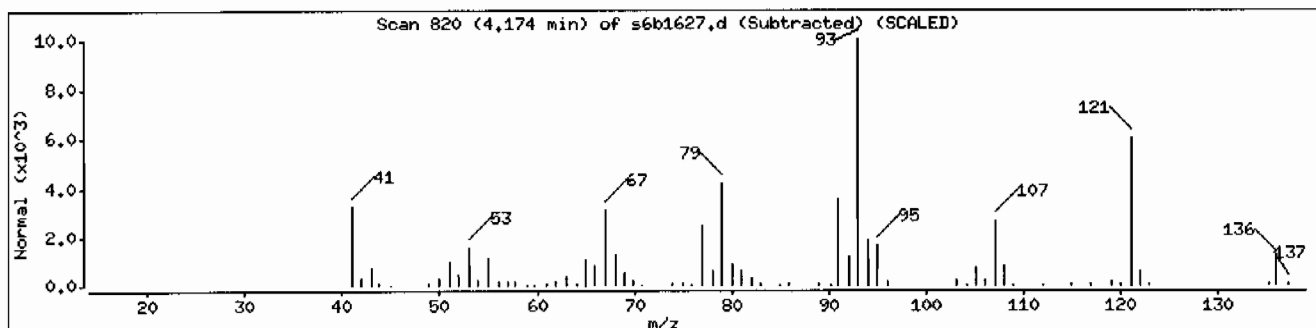
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Camphene	79-92-5	NIST05.L	15152	97	C10H16	136
Camphene	79-92-5	NIST05.L	15160	96	C10H16	136
Camphene	79-92-5	NIST05.L	15161	93	C10H16	136



Date: 16-FEB-2010 22:53

Client ID: RE15-10-8300

Instrument: MSD6.i

Sample Info: 12463300091950447111SVH111LANL

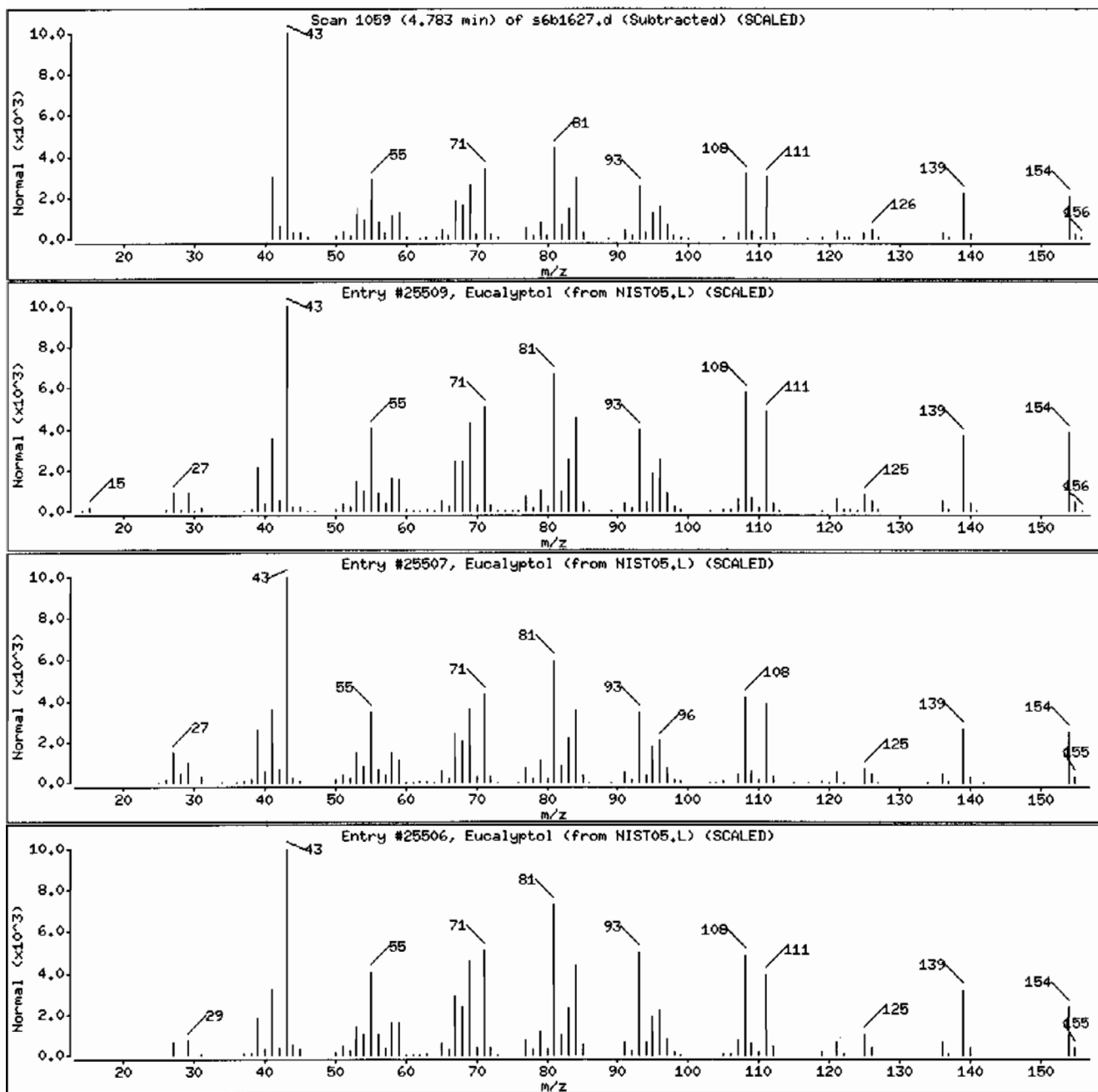
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Eucalyptol	470-82-6	NIST05.L	25509	98	C10H18O	154
Eucalyptol	470-82-6	NIST05.L	25507	98	C10H18O	154
Eucalyptol	470-82-6	NIST05.L	25506	94	C10H18O	154



Date: 16-FEB-2010 22:53

Client ID: RE15-10-8300

Instrument: MSD6.i

Sample Info: 1246330009195044711SVMI11LANL

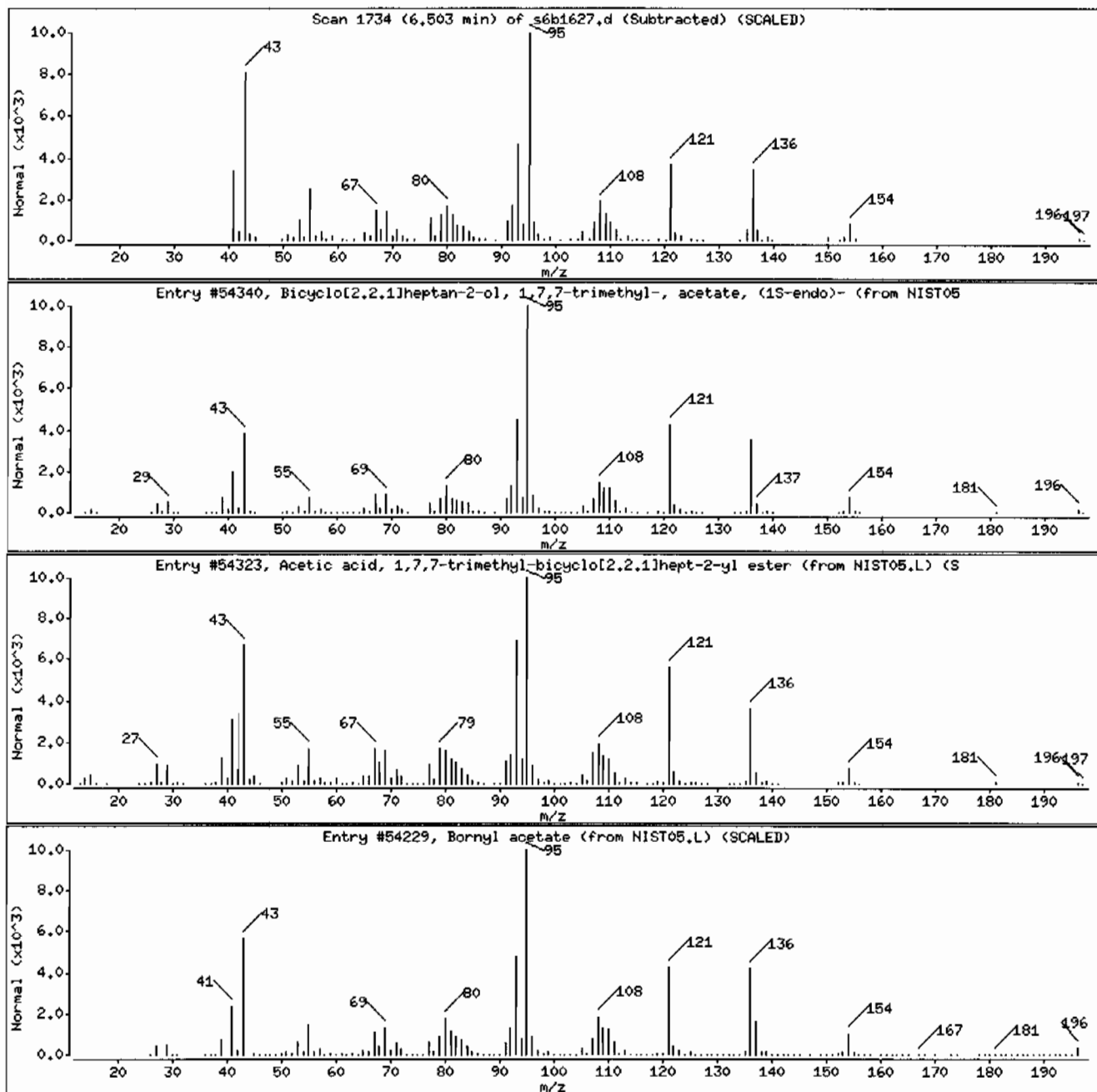
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimeth	5655-61-8	NIST05.L	54340	97	C12H20O2	196
Acetic acid, 1,7,7-trimethyl-bicyclo[2.2	92618-89-8	NIST05.L	54323	96	C12H20O2	196
Bornyl acetate	76-49-3	NIST05.L	54229	94	C12H20O2	196



Date : 16-FEB-2010 22:53

Client ID: RE15-10-8300

Instrument: MSD6.i

Sample Info: 1246330009195044711SVH111LANL

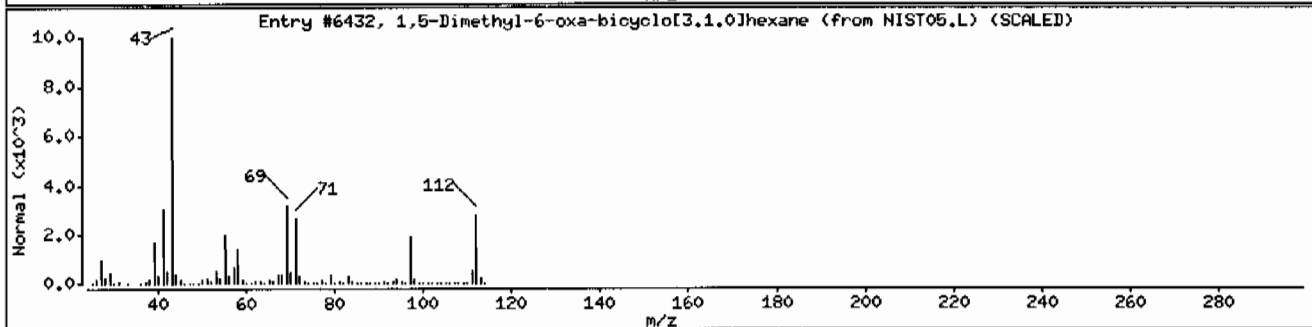
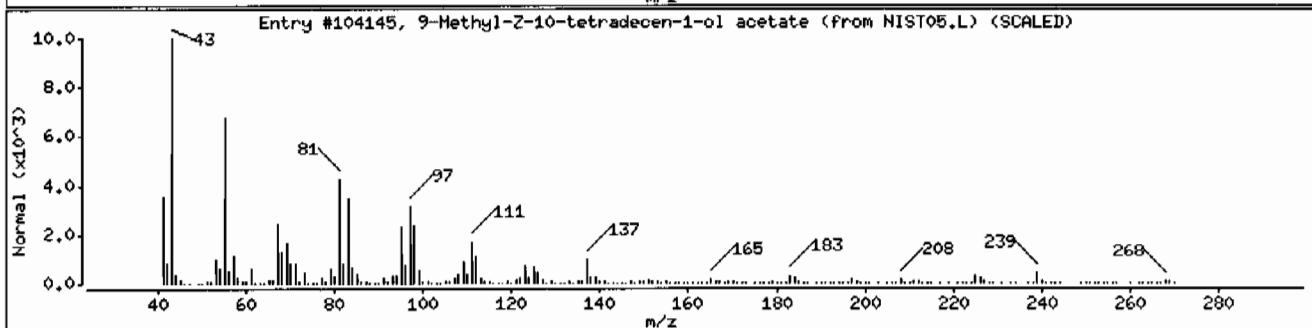
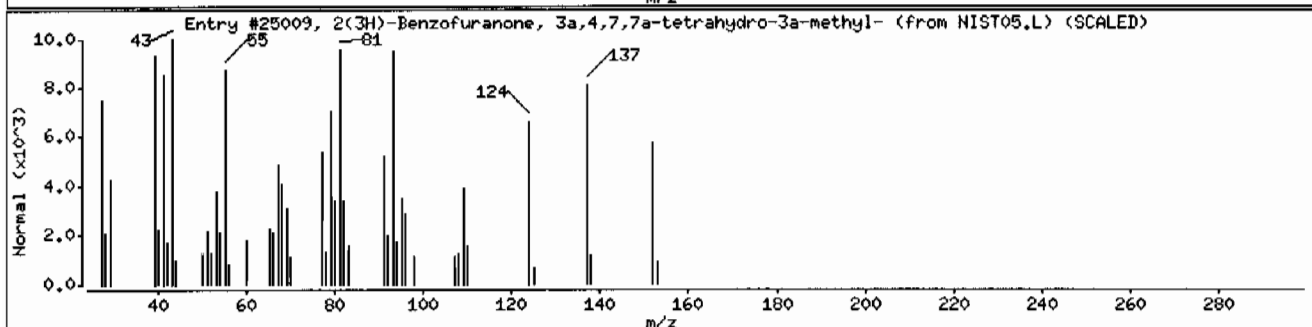
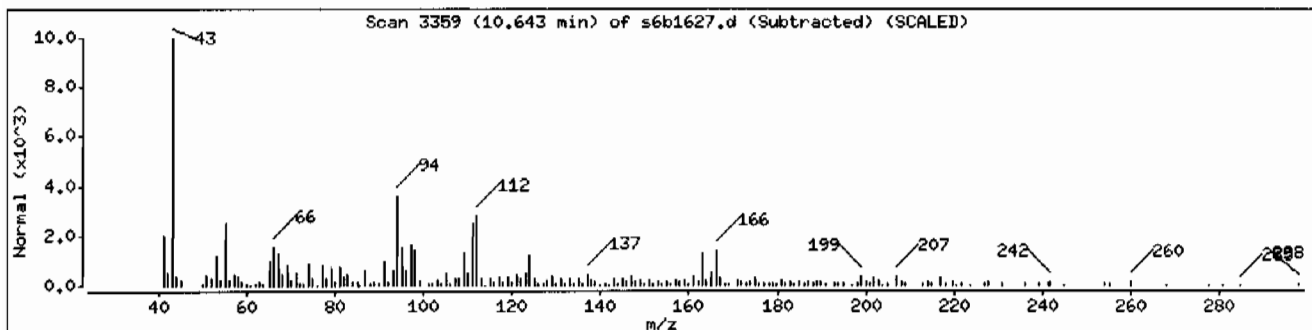
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2(3H)-Benzofuranone, 3a,4,7,7a-tetrahydr	78592-89-9	NIST05.L	25009	25	C9H12O2	152
9-Methyl-2-10-tetradecen-1-ol acetate	1000130-99-4	NIST05.L	104145	18	C17H32O2	268
1,5-Dimethyl-6-oxa-bicyclo[3.1.0]hexane	82461-31-2	NIST05.L	6432	14	C7H12O	112



Date : 16-FEB-2010 22:53

Client ID: RE15-10-8300

Instrument: MSD6.i

Sample Info: 1246330009195044711SVMI11LANL

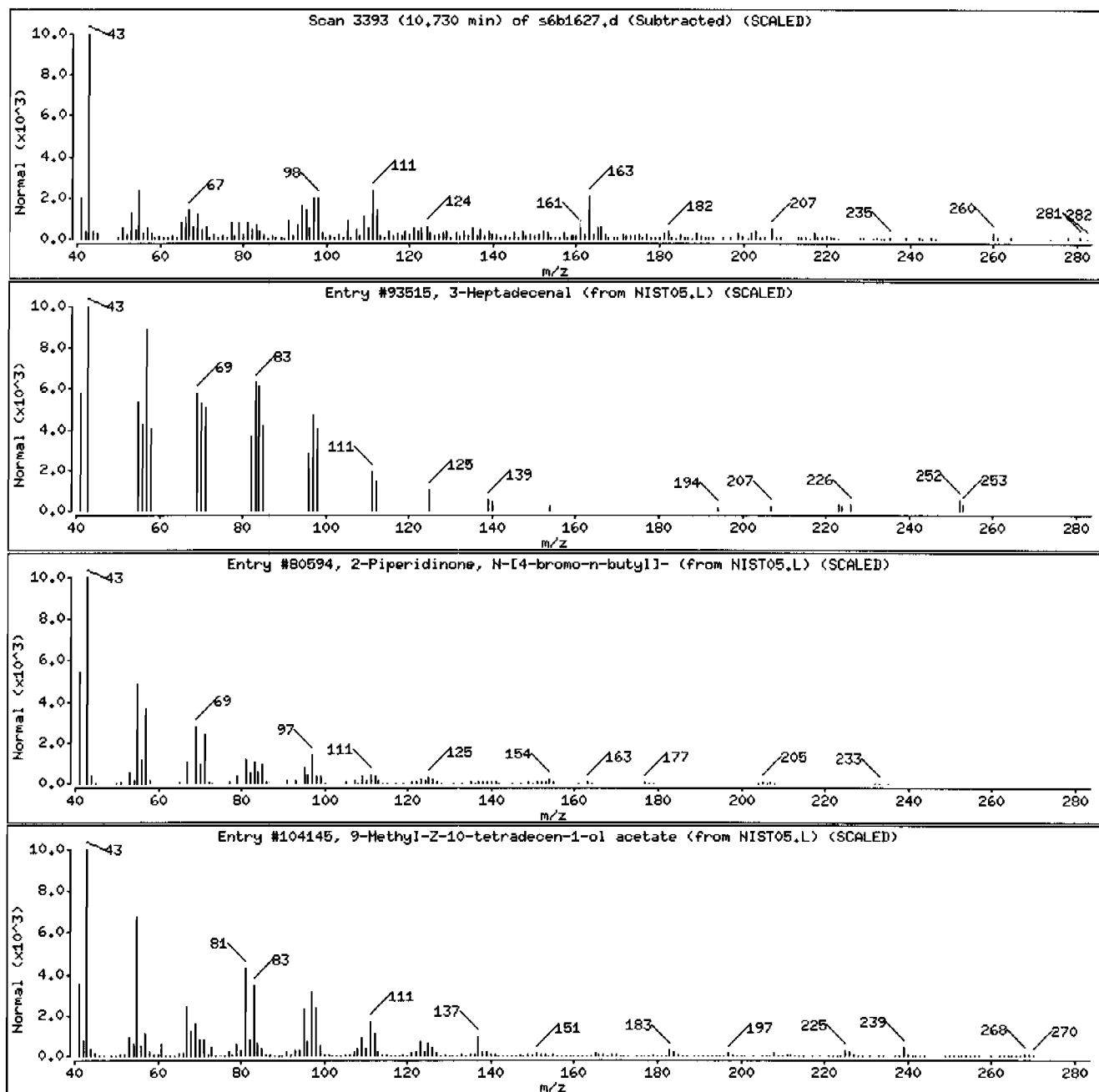
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3-Heptadecenal	1000143-48-7	NIST05.L	93515	35	C17H32O	252
2-Piperidinone, N-[4-bromo-n-butyl]-	195194-80-0	NIST05.L	80594	32	C9H16BrNO	233
9-Methyl-Z-10-tetradecen-1-ol acetate	1000130-99-4	NIST05.L	104145	16	C17H32O2	268



Date: 16-FEB-2010 22:53

Client ID: RE15-10-8300

Instrument: MSD6.i

Sample Info: 1246330009195044711SVH11ILANL

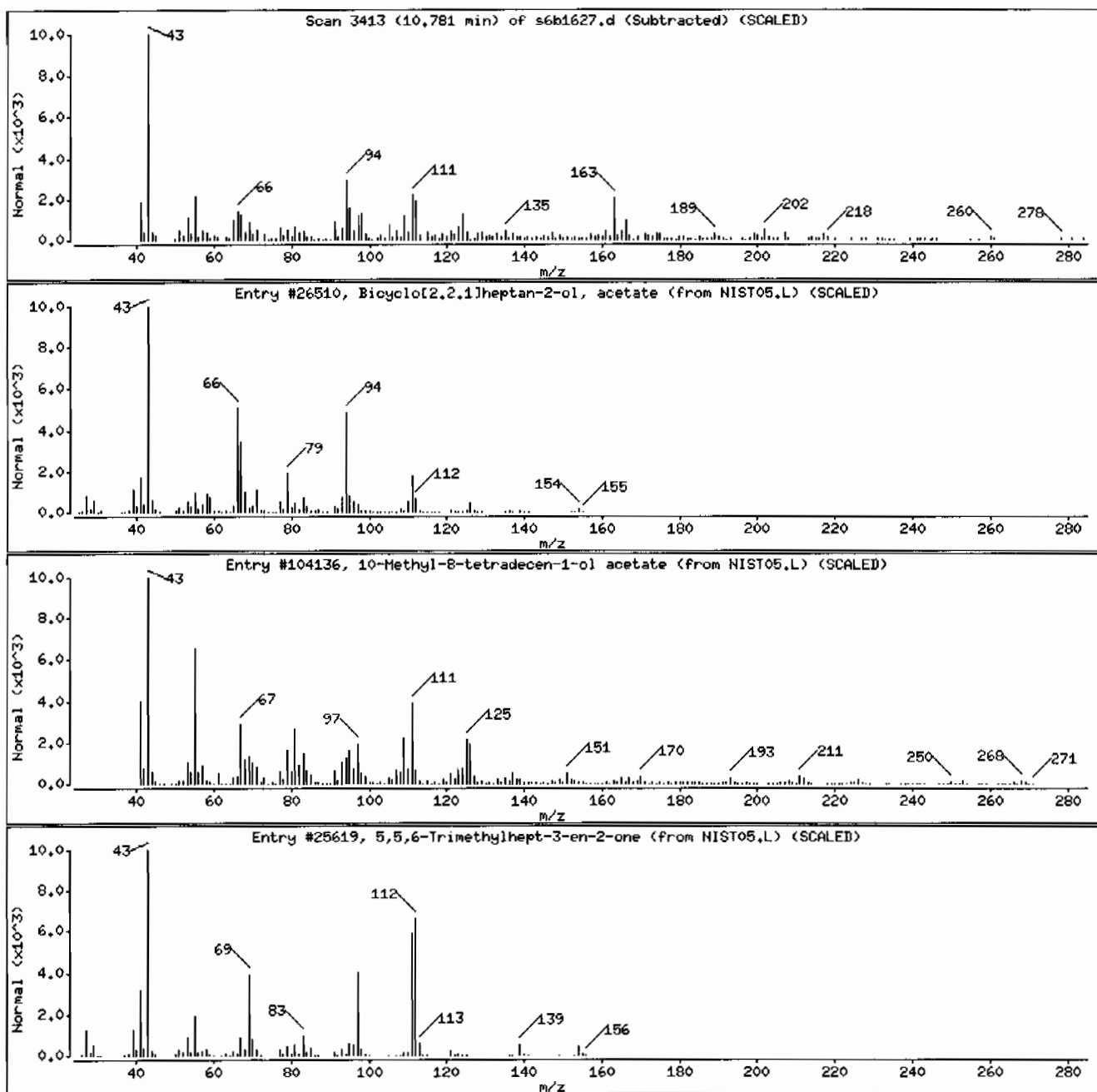
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Bicyclo[2.2.1]heptan-2-ol, acetate	34640-76-1	NIST05.L	26510	22	C9H14O2	154
10-Methyl-8-tetradecen-1-ol acetate	1000131-36-1	NIST05.L	104136	16	C17H32O2	268
5,5,6-Trimethylhept-3-en-2-one	1000190-99-6	NIST05.L	25619	14	C10H18O	154



Date : 16-FEB-2010 22:53

Client ID: RE15-10-8300

Instrument: HSD6.i

Sample Info: I246330009195044711SVH11LANL

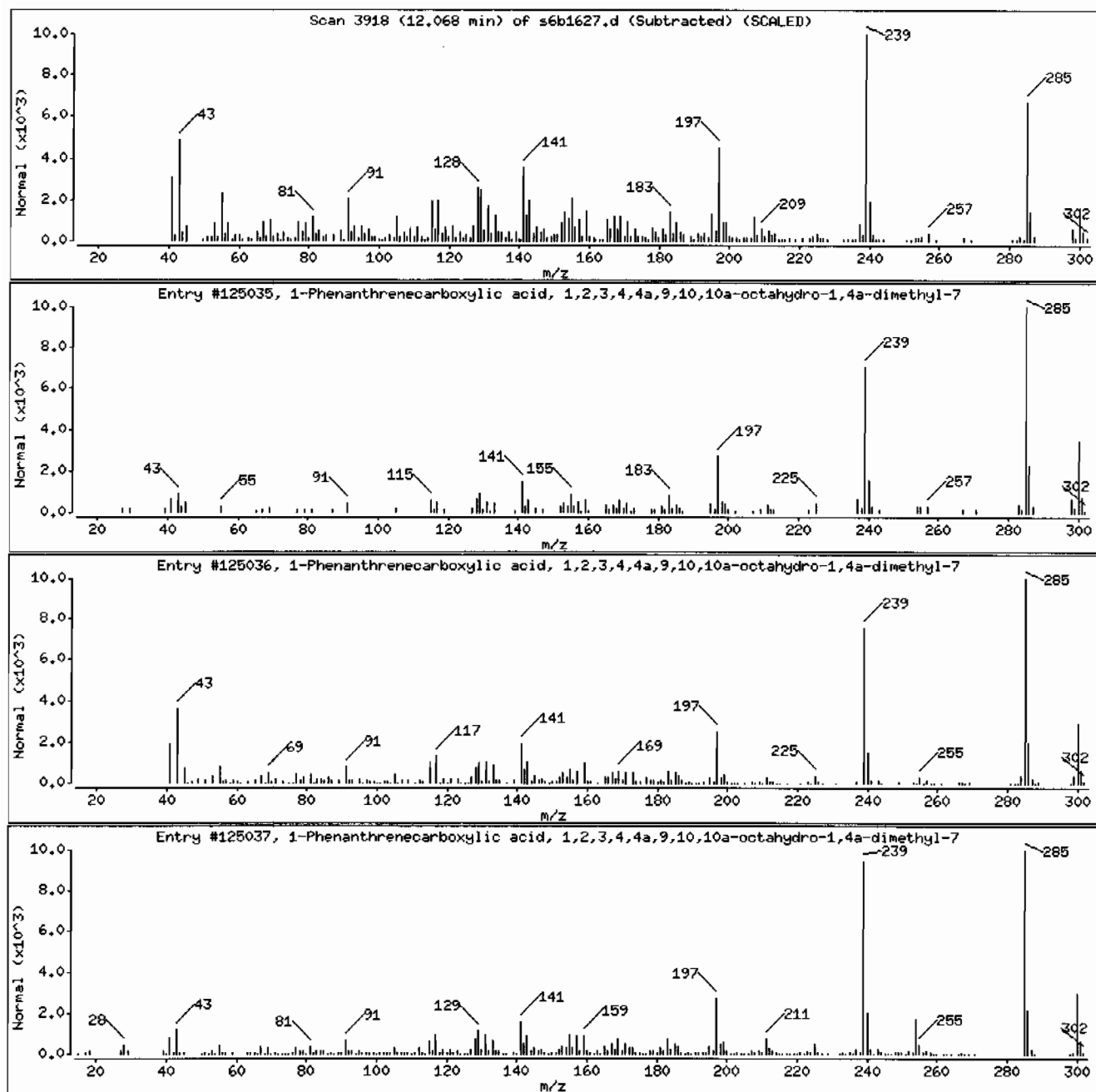
Volume Injected (uL): 0.5

Operator: nag1

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	5155-70-4	NIST05.L	125035	95	C20H28O2	300
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1740-19-8	NIST05.L	125036	94	C20H28O2	300
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1740-19-8	NIST05.L	125037	91	C20H28O2	300



Date: 16-FEB-2010 22:53

Client ID: RE15-10-8300

Instrument: MSD6.i

Sample Info: 1246330009195044711SVMI1ILANL

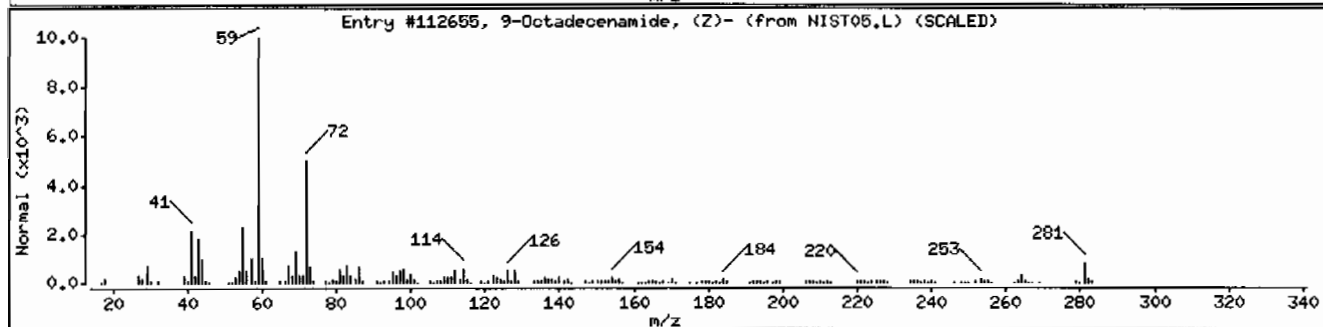
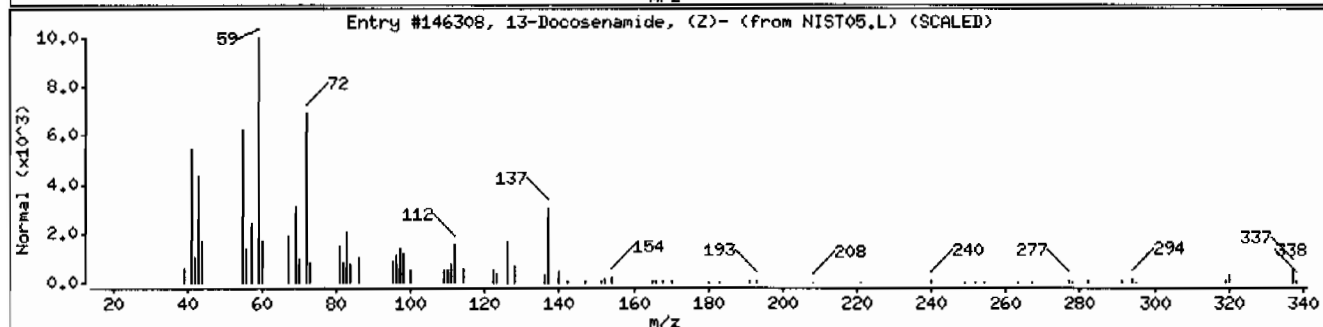
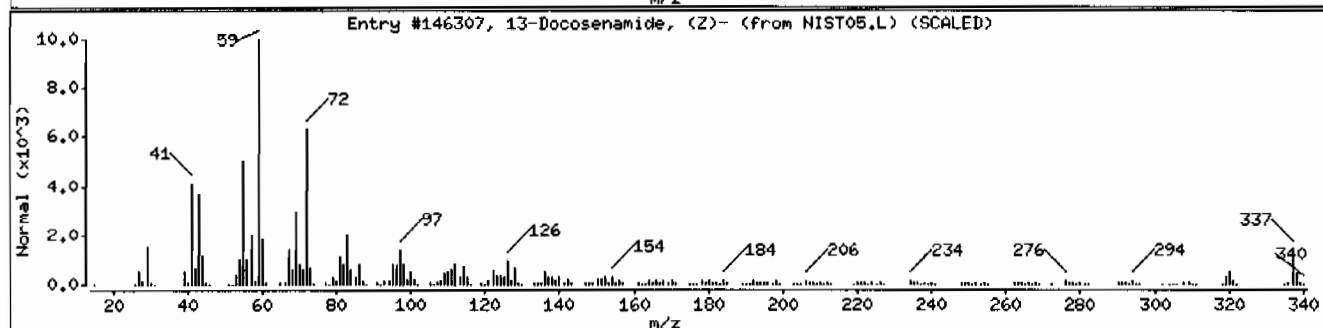
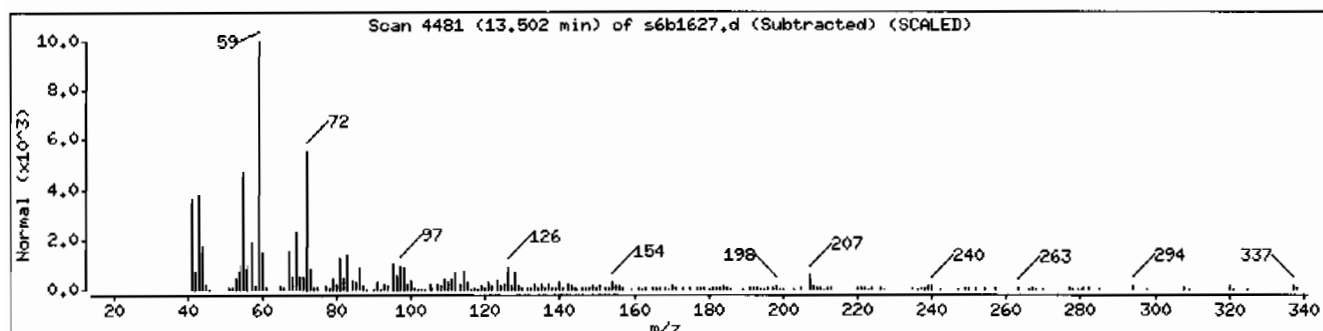
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
13-Docosenamide, (Z)-	112-84-5	NIST05.L	146307	96	C22H43NO	337
13-Docosenamide, (Z)-	112-84-5	NIST05.L	146308	93	C22H43NO	337
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112655	87	C18H35NO	281



Date : 16-FEB-2010 22:53

Client ID: RE15-10-8300

Instrument: MSD6.i

Sample Info: I246330009195044711ISVMI11LANL

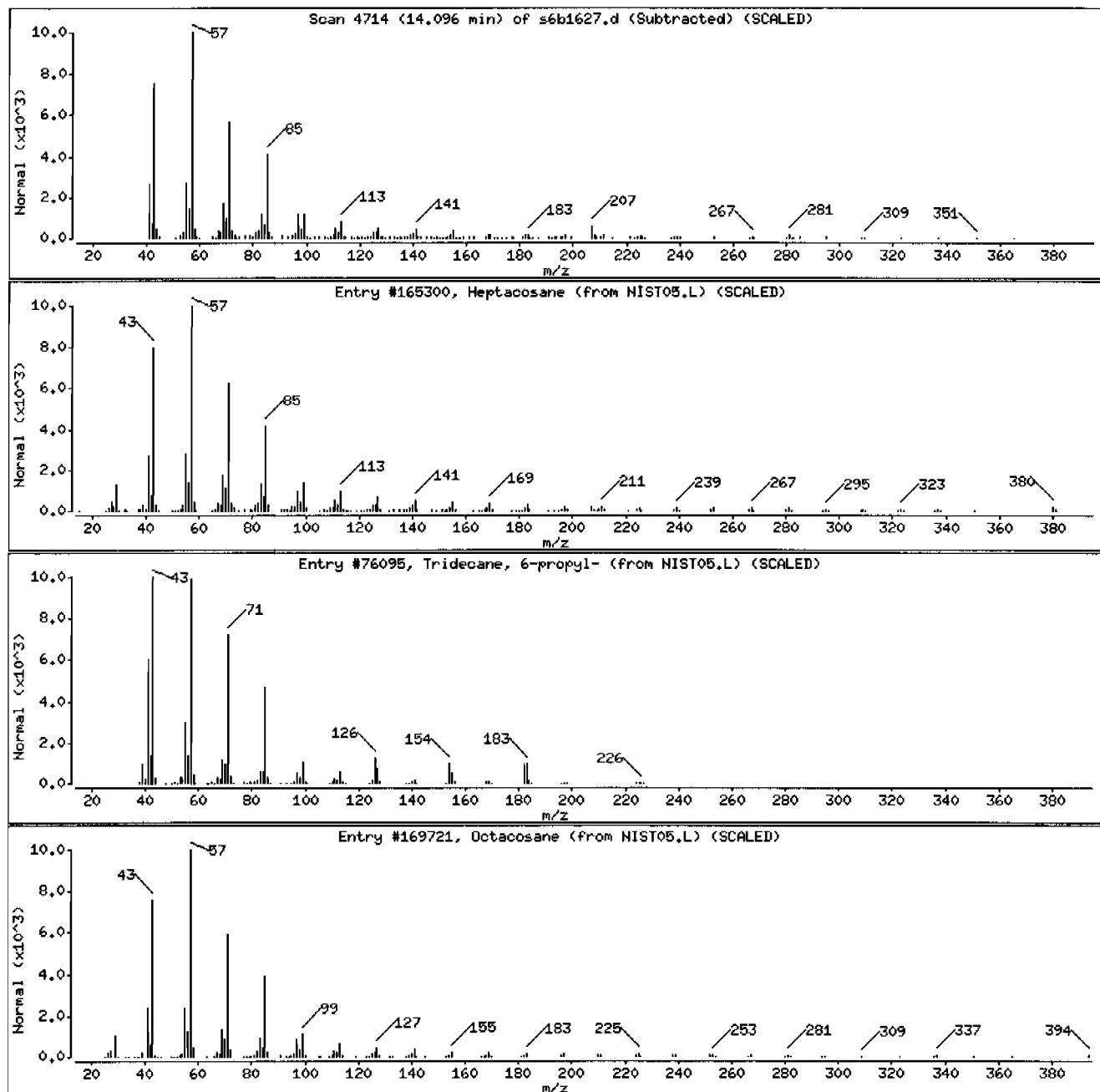
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heptacosane	593-49-7	NIST05.L	165300	91	C ₂₇ H ₅₆	380
Tridecane, 6-propyl-	55045-10-8	NIST05.L	76095	91	C ₁₆ H ₃₄	226
Octacosane	630-02-4	NIST05.L	169721	90	C ₂₈ H ₅₈	394



Date : 16-FEB-2010 22:53

Client ID: RE15-10-8300

Instrument: MSD6.i

Sample Info: I246330009195044711SVMI11LANL

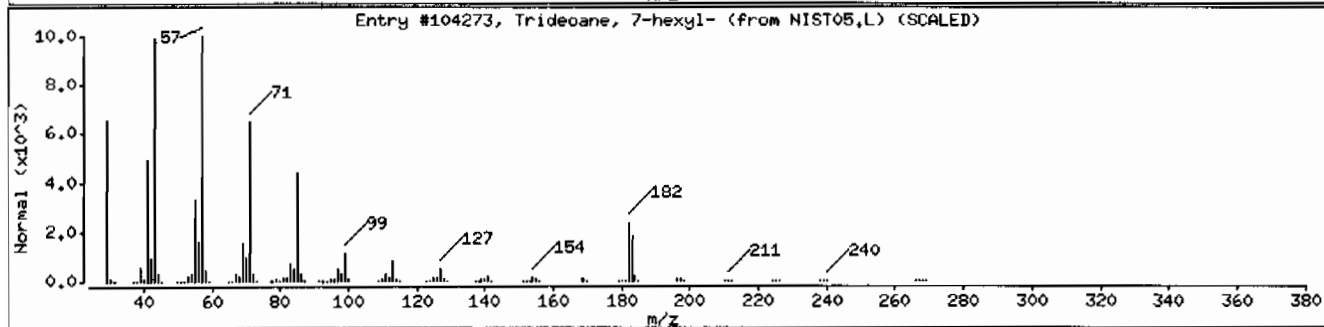
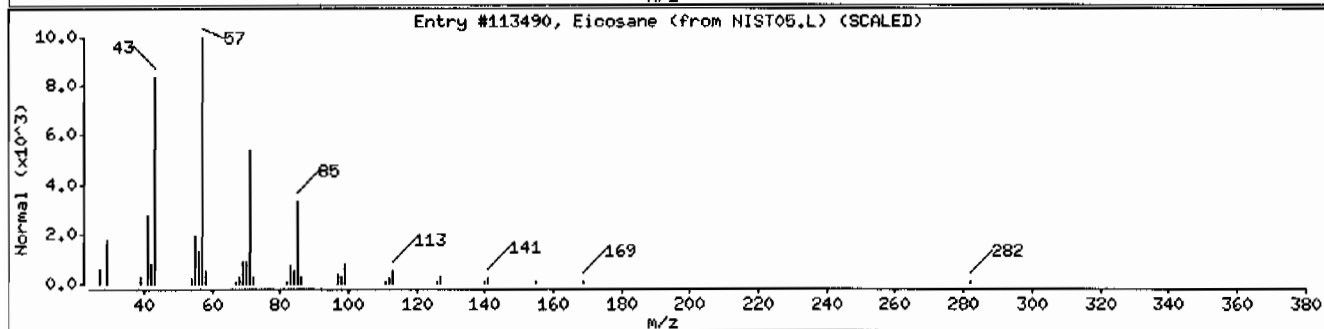
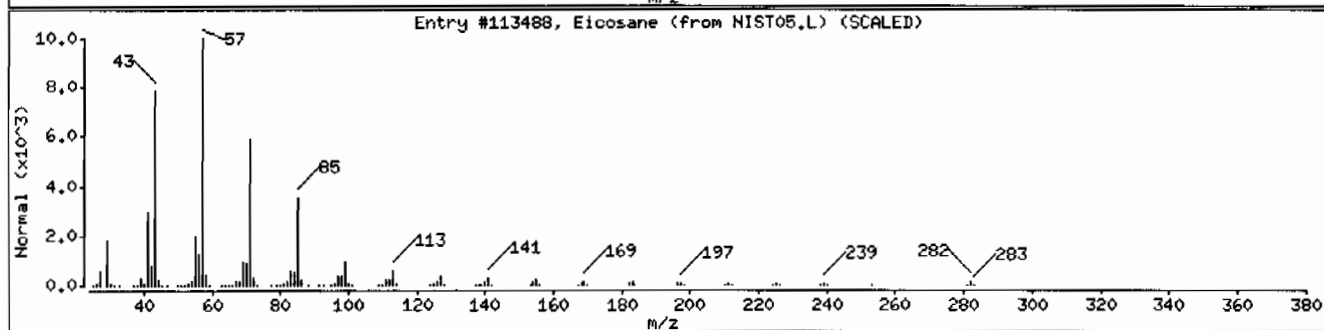
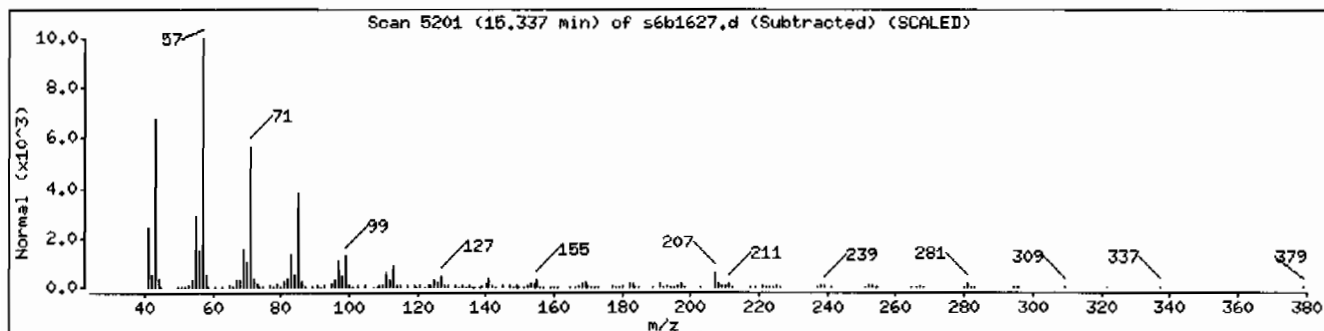
Volume Injected (uL): 0.5

Operator: nag1

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	113488	96	C20H42	282
Eicosane	112-95-8	NIST05.L	113490	95	C20H42	282
Tridecane, 7-hexyl-	7225-66-3	NIST05.L	104273	91	C19H40	268



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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330009	Date Received: 02/05/2010 09:00	%Moisture: 30.6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8300RE	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 954451	Inst: MSD4.I	Dilution: 1
Run Date: 02/19/2010 01:52	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/18/2010 13:52	Aliquot: 30.08 g	Final Volume: 1 mL
Data File: s4b1842.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	Uh	479	ug/kg	95.9	479
108-95-2	Phenol	Uh	479	ug/kg	95.9	479
95-57-8	2-Chlorophenol	Uh	479	ug/kg	95.9	479
106-46-7	1,4-Dichlorobenzene	Uh	479	ug/kg	95.9	479
621-64-7	N-Nitrosodipropylamine	Uh	479	ug/kg	95.9	479
59-50-7	4-Chloro-3-methylphenol	Uh	479	ug/kg	95.9	479
83-32-9	Acenaphthene	Uh	47.9	ug/kg	15.8	47.9
121-14-2	2,4-Dinitrotoluene	Uh	479	ug/kg	47.9	479
100-02-7	4-Nitrophenol	Uh	479	ug/kg	158	479
87-86-5	Pentachlorophenol	Uh	479	ug/kg	120	479
129-00-0	Pyrene	Uh	47.9	ug/kg	14.4	47.9
110-86-1	Pyridine	Uh	479	ug/kg	95.9	479
62-53-3	Aniline	Uh	479	ug/kg	144	479
111-44-4	bis(2-Chloroethyl) ether	Uh	479	ug/kg	95.9	479
541-73-1	1,3-Dichlorobenzene	Uh	479	ug/kg	95.9	479
100-51-6	Benzyl alcohol	Uh	479	ug/kg	144	479
95-50-1	1,2-Dichlorobenzene	Uh	479	ug/kg	95.9	479
108-60-1	bis(2-Chloroisopropyl)ether	Uh	479	ug/kg	95.9	479
95-48-7	o-Cresol	Uh	479	ug/kg	95.9	479
65794-96-9	m,p-Cresols	Uh	479	ug/kg	144	479
67-72-1	Hexachloroethane	Uh	479	ug/kg	95.9	479
98-95-3	Nitrobenzene	Uh	479	ug/kg	95.9	479
78-59-1	Isophorone	Uh	479	ug/kg	95.9	479
88-75-5	2-Nitrophenol	Uh	479	ug/kg	95.9	479
105-67-9	2,4-Dimethylphenol	Uh	479	ug/kg	168	479
111-91-1	bis(2-Chloroethoxy)methane	Uh	479	ug/kg	95.9	479
120-83-2	2,4-Dichlorophenol	Uh	479	ug/kg	95.9	479
65-85-0	Benzoic acid	Uh	959	ug/kg	240	959
91-20-3	Naphthalene	Uh	47.9	ug/kg	14.4	47.9
106-47-8	4-Chloroaniline	Uh	479	ug/kg	95.9	479
87-68-3	Hexachlorobutadiene	Uh	479	ug/kg	95.9	479
91-57-6	2-Methylnaphthalene	Uh	47.9	ug/kg	9.59	47.9
77-47-4	Hexachlorocyclopentadiene	Uh	479	ug/kg	95.9	479
88-06-2	2,4,6-Trichlorophenol	Uh	479	ug/kg	95.9	479
95-95-4	2,4,5-Trichlorophenol	Uh	479	ug/kg	95.9	479
91-58-7	2-Chloronaphthalene	Uh	47.9	ug/kg	15.8	47.9
88-74-4	2-Nitroaniline	Uh	479	ug/kg	95.9	479
	o-Nitroaniline					
99-09-2	3-Nitroaniline	Uh	479	ug/kg	95.9	479

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330009	Date Received: 02/05/2010 09:00	%Moisture: 30.6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8300RE	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 954451	Inst: MSD4J	Dilution: 1
Run Date: 02/19/2010 01:52	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/18/2010 13:52	Aliquot: 30.08 g	Final Volume: 1 mL
Data File: s4b1842.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	Uh	479	ug/kg	95.9	479
606-20-2	2,6-Dinitrotoluene	Uh	479	ug/kg	47.9	479
208-96-8	Acenaphthylene	Uh	47.9	ug/kg	14.4	47.9
51-28-5	2,4-Dinitrophenol	Uh	959	ug/kg	182	959
132-64-9	Dibenzofuran	Uh	479	ug/kg	95.9	479
84-66-2	Diethylphthalate	Uh	479	ug/kg	95.9	479
86-73-7	Fluorene	Uh	47.9	ug/kg	14.4	47.9
7005-72-3	4-Chlorophenylphenylether	Uh	479	ug/kg	95.9	479
534-52-1	2-Methyl-4,6-dinitrophenol	Uh	479	ug/kg	95.9	479
100-01-6	4-Nitroaniline	Uh	479	ug/kg	144	479
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	Uh	479	ug/kg	95.9	479
122-66-7	Azobenzene	Uh	479	ug/kg	95.9	479
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	Uh	479	ug/kg	95.9	479
118-74-1	Hexachlorobenzene	Uh	479	ug/kg	95.9	479
85-01-8	Phenanthrene	Uh	47.9	ug/kg	14.4	47.9
120-12-7	Anthracene	Uh	47.9	ug/kg	9.59	47.9
84-74-2	Di-n-butylphthalate	Uh	479	ug/kg	95.9	479
206-44-0	Fluoranthene	Uh	47.9	ug/kg	14.4	47.9
85-68-7	Butylbenzylphthalate	Uh	479	ug/kg	95.9	479
56-55-3	Benzo(a)anthracene	Uh	47.9	ug/kg	14.4	47.9
91-94-1	3,3'-Dichlorobenzidine	Uh	479	ug/kg	144	479
218-01-9	Chrysene	Uh	47.9	ug/kg	14.4	47.9
117-81-7	bis(2-Ethylhexyl)phthalate	Uh	479	ug/kg	95.9	479
117-84-0	Di-n-octylphthalate	Uh	479	ug/kg	95.9	479
205-99-2	Benzo(b)fluoranthene	Uh	47.9	ug/kg	14.4	47.9
207-08-9	Benzo(k)fluoranthene	Uh	47.9	ug/kg	14.4	47.9
50-32-8	Benzo(a)pyrene	Uh	47.9	ug/kg	14.4	47.9
193-39-5	Indeno(1,2,3-cd)pyrene	Uh	47.9	ug/kg	14.4	47.9
53-70-3	Dibenzo(a,h)anthracene	Uh	47.9	ug/kg	14.4	47.9
191-24-2	Benzo(ghi)perylene	Uh	47.9	ug/kg	14.4	47.9
120-82-1	1,2,4-Trichlorobenzene	Uh	479	ug/kg	95.9	479

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
107-92-6	Butanoic acid	2.6	228	ug/kg	90	NJ
503-74-2	Butanoic acid, 3-methyl-	2.89	212	ug/kg	83	NJ

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330009	Date Received: 02/05/2010 09:00	%Moisture: 30.6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8300RE	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 954451	Inst: MSD4.I	Dilution: 1
Run Date: 02/19/2010 01:52	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/18/2010 13:52	Aliquot: 30.08 g	Final Volume: 1 mL
Data File: s4b1842.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
	Unknown Aldol Condensate	2.96	715	ug/kg		J
57-10-3	n-Hexadecanoic acid	7.31	688	ug/kg	97	NJ
	Unknown	7.48	216	ug/kg		J
112-63-0	9,12-Octadecadienoic acid (Z,Z)-, methyl	7.63	196	ug/kg	95	NJ
1000130-81-0	11,13-Dimethyl-12-tetradecen-1-ol acetat	7.72	548	ug/kg	87	NJ
	Unknown	7.75	481	ug/kg		J
1740-19-8	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	8.55	719	ug/kg	97	NJ
301-02-0	9-Octadecenamide, (Z)-	9.35	195	ug/kg	94	NJ
112-95-8	Eicosane	9.7	470	ug/kg	98	NJ
629-94-7	Heneicosane	10.64	659	ug/kg	90	NJ
	Unknown	12.19	253	ug/kg		J
	Unknown	12.82	388	ug/kg		J
	Unknown	13.44	214	ug/kg		J
	Unknown	13.94	200	ug/kg		J

Data File: /chem/MSD4.i/s021810a.b/s4b1842.d
Report Date: 19-Feb-2010 10:38

Page 1

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Data file : /chem/MSD4.i/s021810a.b/s4b1842.d
Lab Smp Id: 246330009 Client Smp ID: RE15-10-8300RE
Inj Date : 19-FEB-2010 01:52
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |246330009|954451|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/s021810a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 19-Feb-2010 09:39 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.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	30.08000	weight of sample
M	30.64360	% 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	3.936	(1.000)	136639	40.0000	
* 29 Naphthalene-d8	136	4.802	4.807	(1.000)	550740	40.0000	
* 46 Acenaphthene-d10	164	6.059	6.064	(1.000)	287977	40.0000	
* 67 Phenanthrene-d10	188	7.054	7.054	(1.000)	430831	40.0000	
* 91 Chrysene-d12	240	8.755	8.776	(1.000)	336979	40.0000	
* 98 Perylene-d12	264	10.295	10.322	(1.000)	202462	40.0000	
\$ 3 2-Fluorophenol	112	3.122	3.117	(0.794)	243562	62.5561	3000
\$ 5 Phenol-d5	99	3.641	3.647	(0.926)	313886	64.1715	3080
\$ 20 Nitrobenzene-d5	82	4.294	4.305	(0.894)	125057	29.5695	1420
\$ 39 2-Fluorobiphenyl	172	5.545	5.551	(0.915)	232491	31.2670	1500
\$ 60 2,4,6-Tribromophenol	329	6.594	6.599	(1.088)	73226	81.3055	3900
\$ 81 p-Terphenyl-d14	244	7.974	7.984	(0.911)	203258	38.5856	1850

ION RATIO REPORT

SV REPORT

Data file: s4b1842.d

Report Date: 02/19/2010 07:54

Lab. ID: 246330009

SampleType: SAMPLE

Injection Date: 19-FEB-2010 01:52

Operator: JMB3

Instrument: MSD4.i

Sample Info: |246330009|954451|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01|

Comment:

Method used: /chem/MSD4.i/s021810a.b/MSD4-M8270C-AQA-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1567

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4 Aniline		CAS#: 62-53-3				
66	11114	3.64	3.72	80-120	100	(T)
93	5689	3.60	3.72	494-554	51	(QT)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	14689	4.29	4.18	80-120	100	(T)
42	6158	4.29	4.18	19- 79	42	(T)

22 Isophorone		CAS#: 78-59-1				
82	125057	4.29	4.47	80-120	100	(T)
138	228	4.60	4.47	0- 50	0	(T)

27 Benzoic acid		CAS#: 65-85-0				
105	610	4.61	4.58	80-120	100	()
122	256	4.61	4.58	63-123	42	(Q)
77	562	4.61	4.58	41-101	92	()

40 2-Chloronaphthalene		CAS#: 91-58-7				
162	8241	5.68	5.66	80-120	100	()
164	260	5.67	5.66	3- 63	3	(Q)
127	186	5.82	5.66	7- 67	2	(QT)

41 m-Nitroaniline		CAS#: 99-09-2				
138	434	5.98	6.02	80-120	100	()
92	1997	6.06	6.02	77-137	459	(Q)
108	419	5.97	6.02	0- 48	96	(Q)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
43 Dimethylphthalate				CAS#: 131-11-3		
163	50605	6.06	5.83	80-120	100	(T)
164	287977	6.06	5.83	0- 40	569	(QT)

44 2,6-Dinitrotoluene				CAS#: 606-20-2		
165	37071	6.06	5.89	80-120	100	(T)
63	440	6.05	5.89	30- 90	1	(QT)

50 2,4-Dinitrotoluene				CAS#: 121-14-2		
165	37071	6.06	6.17	80-120	100	(T)
89	431	6.05	6.17	38- 98	1	(QT)
63	440	6.05	6.17	8- 68	1	(QT)

52 4-Nitrophenol				CAS#: 100-02-7		
139	246	6.05	6.10	80-120	100	()
109	588	6.04	6.10	16- 76	239	(Q)
65	1116	6.06	6.10	46-106	453	(Q)

53 Fluorene				CAS#: 86-73-7		
166	3414	6.59	6.44	80-120	100	(T)
165	3781	6.59	6.44	59-119	111	(T)
167	1238	6.59	6.44	0- 44	36	(T)

61 4-Bromophenylphenylether				CAS#: 101-55-3		
248	3886	6.59	6.74	80-120	100	(T)
141	24623	6.59	6.74	46-106	633	(QT)
250	7678	6.59	6.74	67-127	198	(QT)

Q qualifier indicates ion failed ratio requirement

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Data file : /chem/MSD4.i/s021810a.b/s4b1842.d
 Lab Smp Id: 246330009 Client Smp ID: RE15-10-8300RE
 Inj Date : 19-FEB-2010 01:52
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |246330009|954451|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/s021810a.b/MSD4-M8270C-AQA-021710.m
 Meth Date : 19-Feb-2010 09:39 jos00786 Quant Type: ISTD
 Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
 Als bottle: 24
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1567.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	30.08000	weight of sample
M	30.64360	% moisture

Cpnd Variable

Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.930	777418	40.000
* 67 Phenanthrene-d10	7.054	1058385	40.000
* 91 Chrysene-d12	8.755	891262	40.000
* 98 Perylene-d12	10.295	527874	40.000

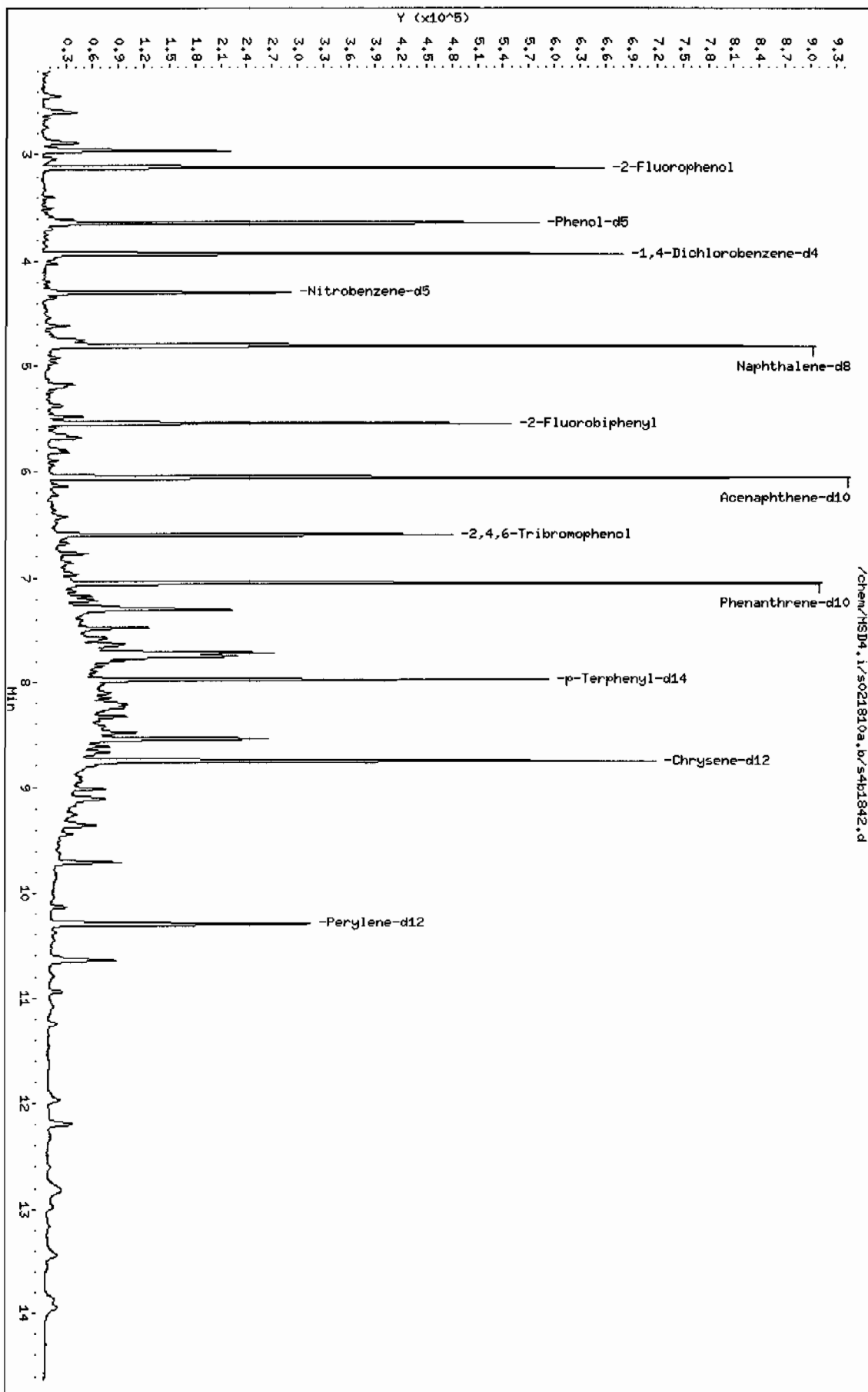
CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
----	-----	-----	-----	----	-----	-----	-----

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
Butanoic acid					CAS #: 107-92-6		
2.598	92588	4.76386808	228	90	NIST05.L	1983	10
Butanoic acid, 3-methyl-					CAS #: 503-74-2		
2.887	86066	4.42832045	212	83	NIST05.L	4176	10
Unknown Aldol Condensate					CAS #:		
2.962	290039	14.9232035	715	0		0	10
n-Hexadecanoic acid					CAS #: 57-10-3		
7.305	379763	14.3525272	688	97	NIST05.L	96235	67
Unknown					CAS #:		
7.482	119240	4.50647630	216	0		0	67
9,12-Octadecadienoic acid (Z,Z)-, methyl					CAS #: 112-63-0		
7.631	108206	4.08946395	196	95	NIST05.L	121107	67
11,13-Dimethyl-12-tetradecen-1-ol acetat					CAS #: 1000130-81-0		
7.717	302332	11.4261444	548	87	NIST05.L	113394	67
Unknown					CAS #:		
7.749	265298	10.0265086	481	0		0	67
1-Phenanthrenecarboxylic acid, 1,2,3,4,4					CAS #: 1740-19-8		
8.546	334062	14.9927294	719	97	NIST05.L	125034	91
9-Octadecenamide, (Z)-					CAS #: 301-02-0		
9.354	90577	4.06509291	195	94	NIST05.L	112655	91
Eicosane					CAS #: 112-95-8		
9.701	129422	9.80700885	470	98	NIST05.L	113492	98
Heneicosane					CAS #: 629-94-7		
10.643	181376	13.7438827	659	90	NIST05.L	122436	98
Unknown					CAS #:		
12.194	69624	5.27583200	253	0		0	98
Unknown					CAS #:		
12.825	106900	8.10039138	388	0		0	98
Unknown					CAS #:		
13.440	59024	4.47258841	214	0		0	98

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Unknown					CAS #:		
13.943	54971	4.16546969	200	0		0	98

Data File: /chem/HSD4.i/s021810a,b/s4b1842.d
 Date: 19-FEB-2010 01:52
 Client ID: RE15-10-8300RE
 Sample Info: 1246330009|95445111SVH11L6NL
 Volume Injected (uL): 0.5
 Column phase: J&W DB-5MS

Instrument: HSD4.i
 Operator: JHB3
 Column diameter: 0.20



Date: 19-FEB-2010 01:52

Client ID: RE15-10-8300RE

Instrument: HSD4.i

Sample Info: I246330009195445111SVMI1ILANL

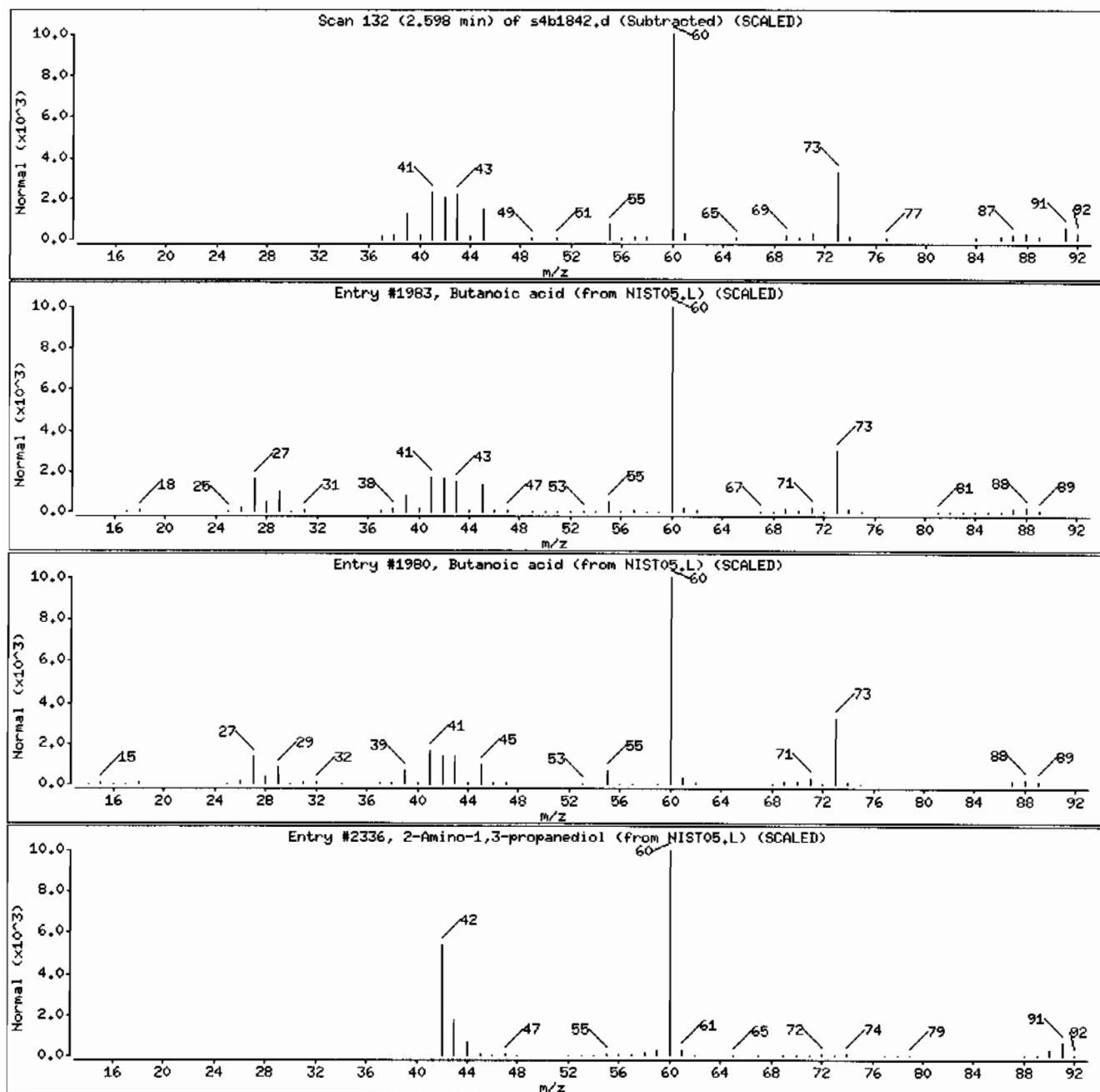
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butanoic acid	107-92-6	NIST05.L	1983	90	C4H8O2	88
Butanoic acid	107-92-6	NIST05.L	1980	87	C4H8O2	88
2-Amino-1,3-propanediol	534-03-2	NIST05.L	2336	43	C3H9NO2	91



Date: 19-FEB-2010 01:52

Client ID: RE15-10-8300RE

Instrument: MSD4.i

Sample Info: 1246330009195445111SVH111LANL

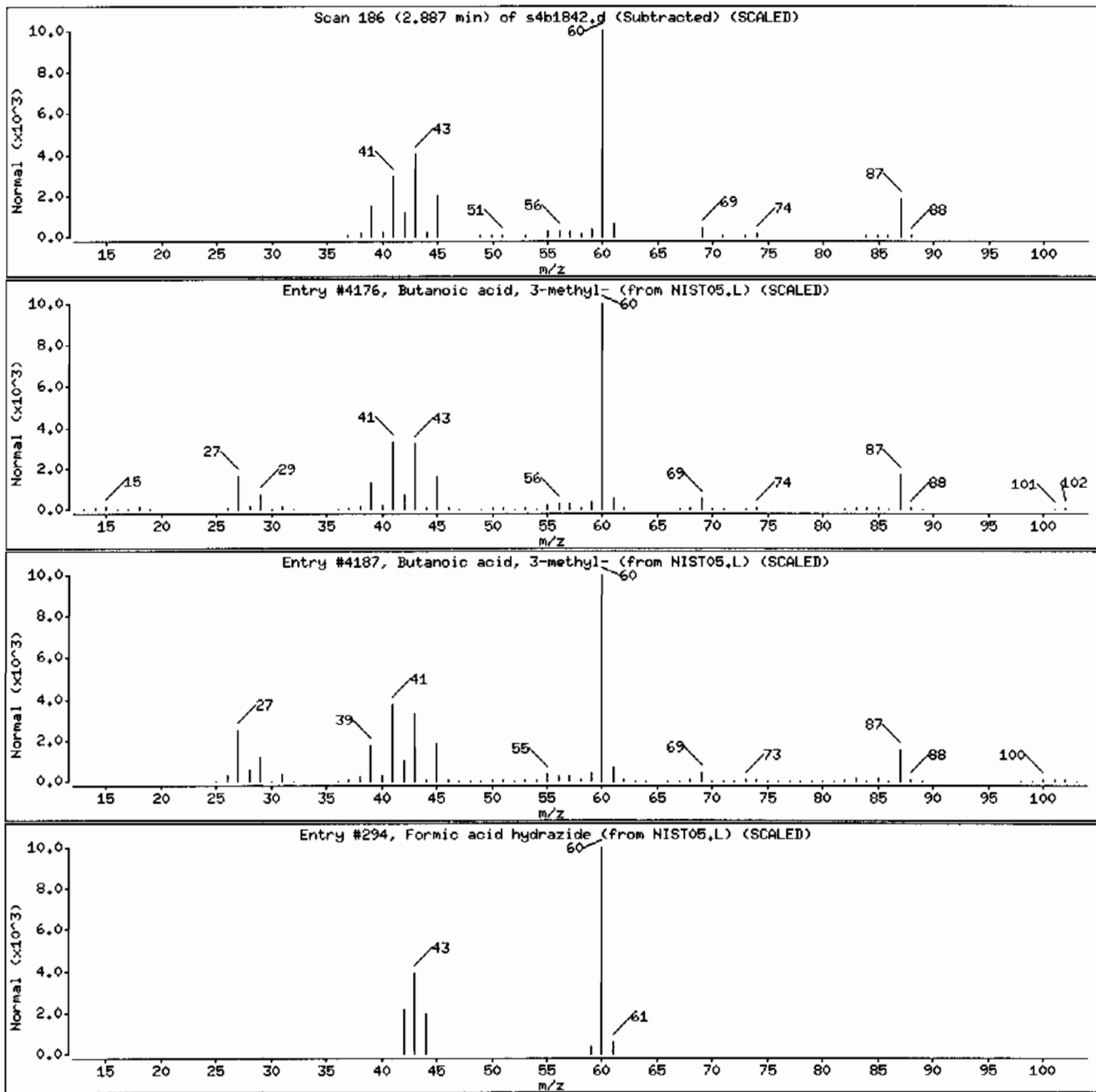
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butanoic acid, 3-methyl-	503-74-2	NIST05.L	4176	83	C5H10O2	102
Butanoic acid, 3-methyl-	503-74-2	NIST05.L	4187	78	C5H10O2	102
Formic acid hydrazide	624-84-0	NIST05.L	294	9	CH4N2O	60



Date : 19-FEB-2010 01:52

Client ID: RE15-10-8300RE

Instrument: MSD4.i

Sample Info: 1246330009195445111SVH111LANL

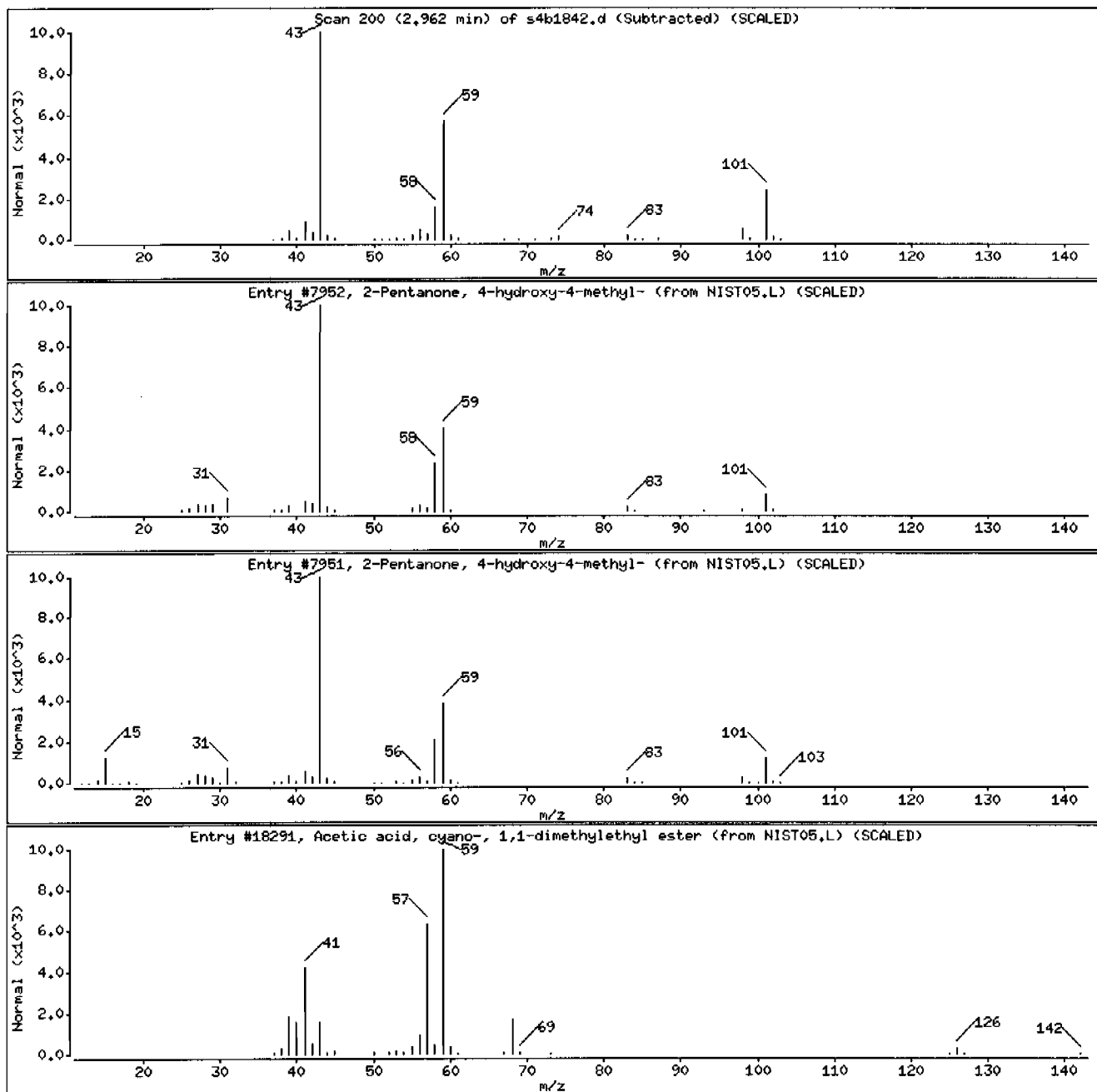
Volume Injected (uL): 0.5

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	56	C6H12O2	116
Acetic acid, cyano-, 1,1-dimethylethyl e	1116-98-9	NIST05.L	18291	17	C7H11NO2	141



Date : 19-FEB-2010 01:52

Client ID: RE15-10-8300RE

Instrument: HSD4.i

Sample Info: 1246330009195445111SVH11/LANL

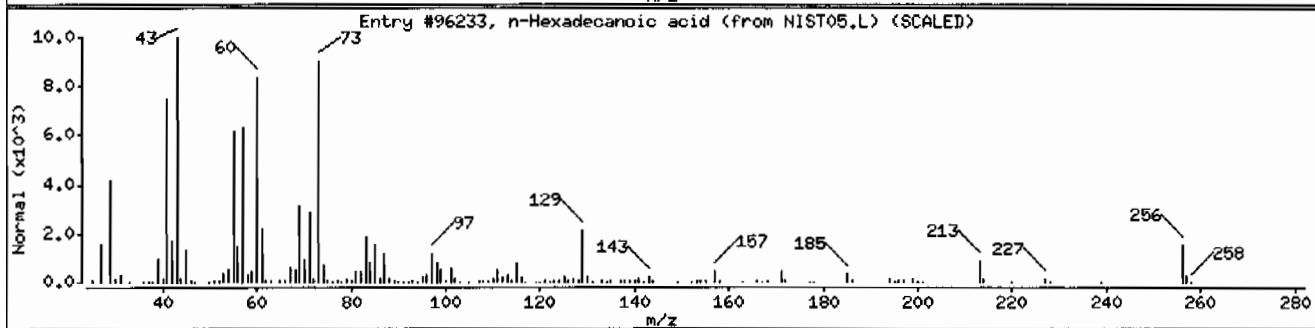
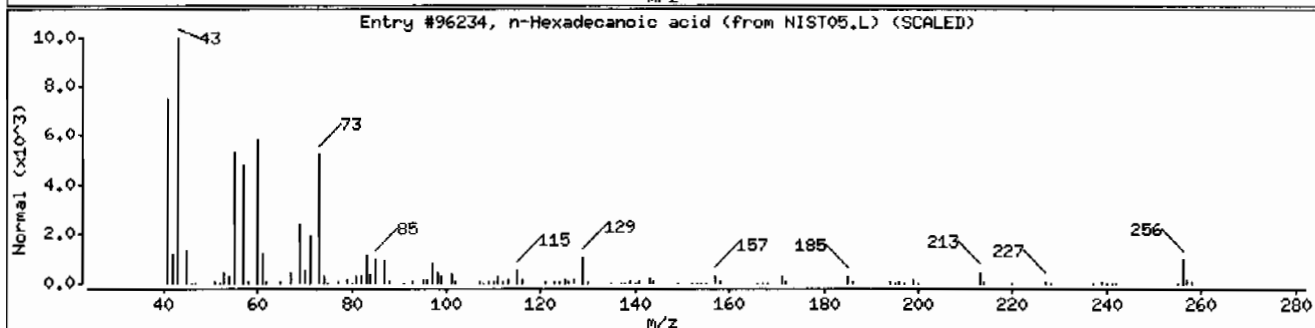
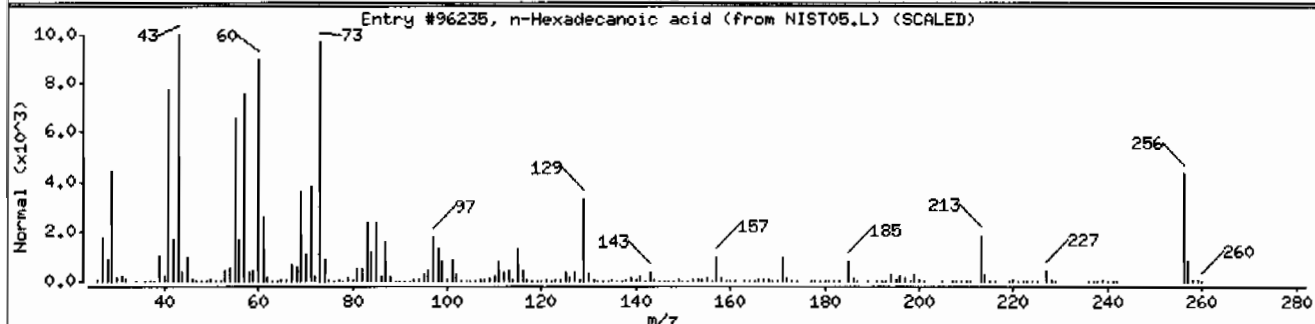
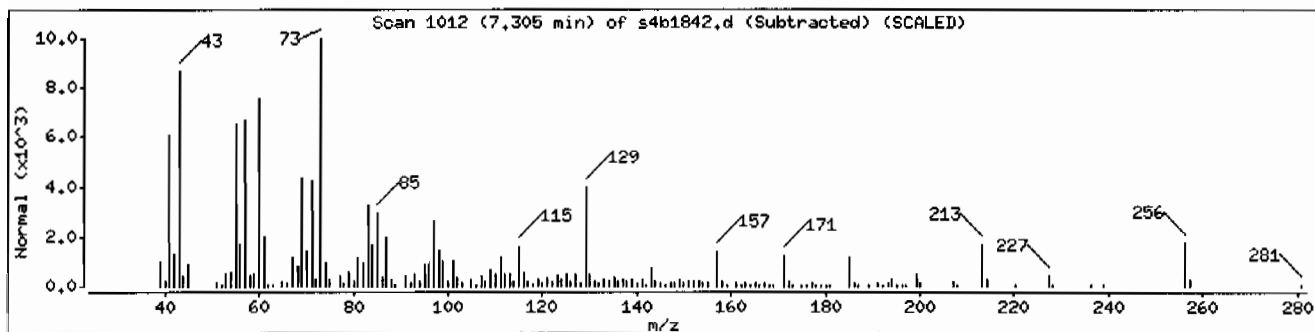
Volume Injected (uL): 0.5

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	97	C16H32O2	256
n-Hexadecanoic acid	57-10-3	NIST05.L	96234	95	C16H32O2	256
n-Hexadecanoic acid	57-10-3	NIST05.L	96233	94	C16H32O2	256



Date: 19-FEB-2010 01:52

Client ID: RE15-10-8300RE

Instrument: MSD4.i

Sample Info: 1246330009195445111SVH111LANL

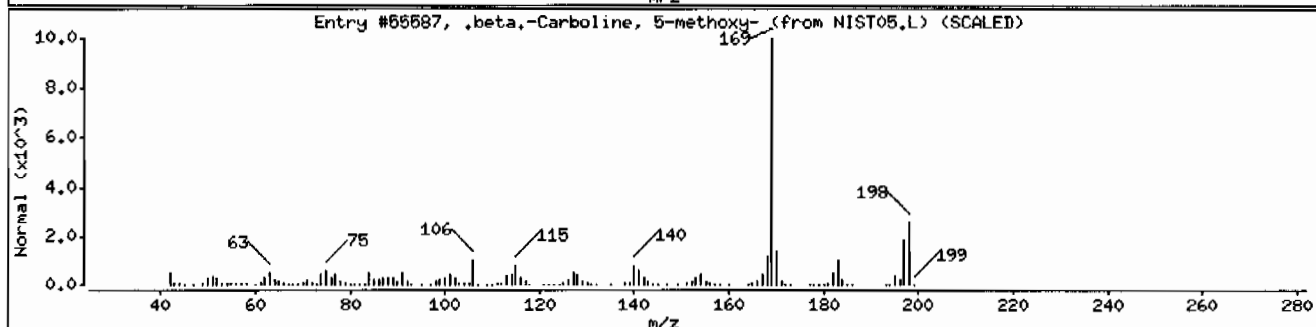
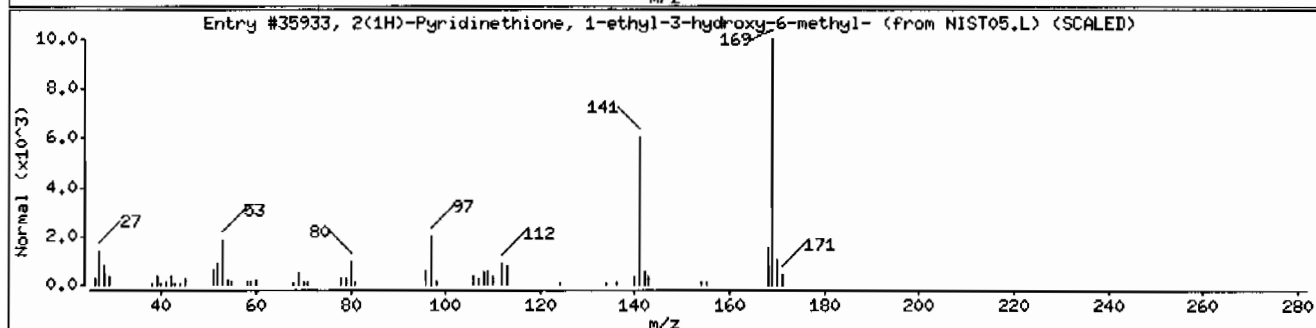
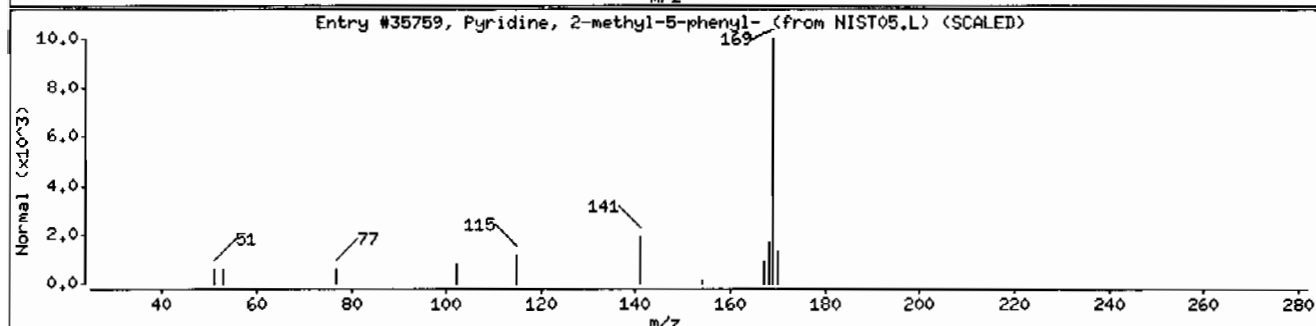
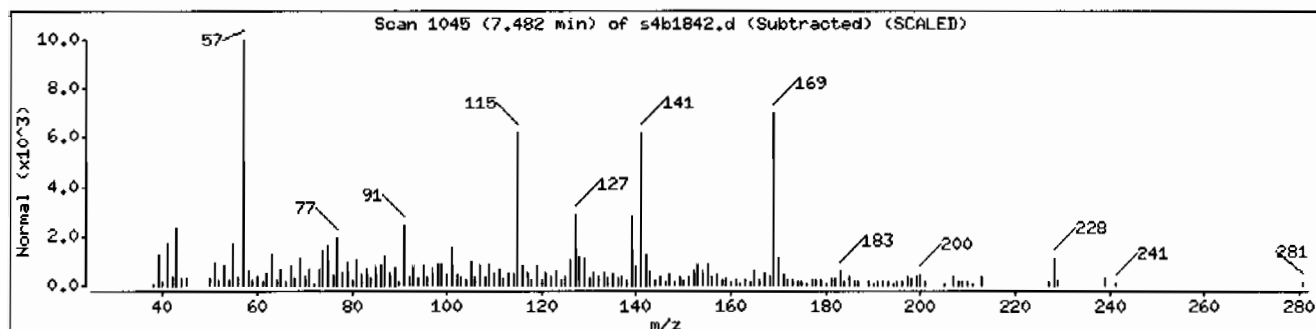
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Pyridine, 2-methyl-5-phenyl-	3256-88-0	NIST05.L	35759	49	C ₁₂ H ₁₁ N	169
2(1H)-Pyridinethione, 1-ethyl-3-hydroxy-	24207-15-6	NIST05.L	35933	38	C ₈ H ₁₁ NOS	169
.beta.-Carboline, 5-methoxy-	1000117-57-6	NIST05.L	55587	35	C ₁₂ H ₁₀ N ₂ O	198



Date: 19-FEB-2010 01:52

Client ID: RE15-10-8300RE

Instrument: MSD4.i

Sample Info: 1246330009195445111SVMI11LANL

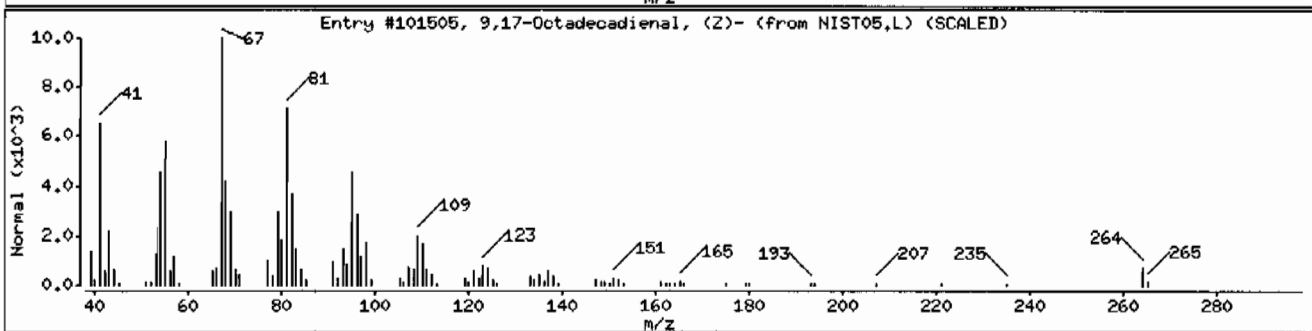
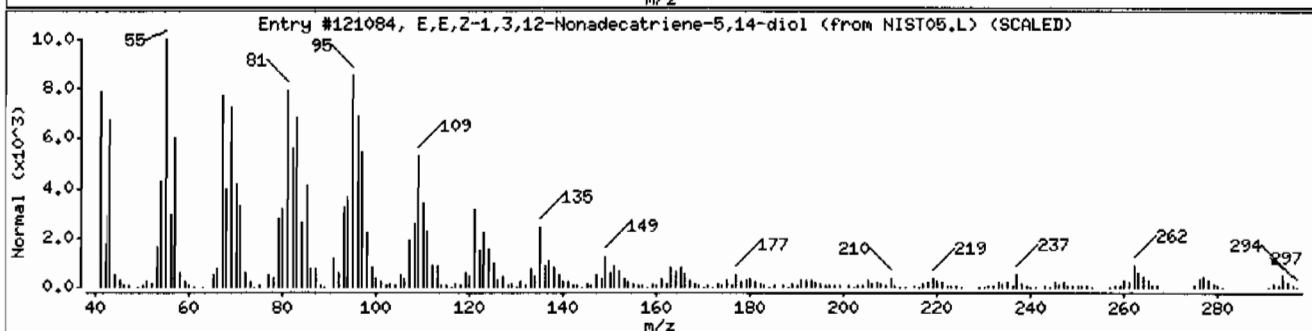
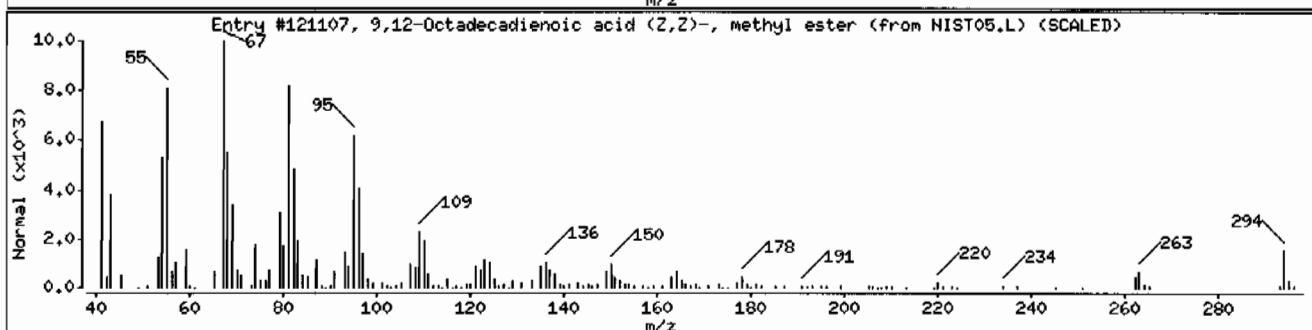
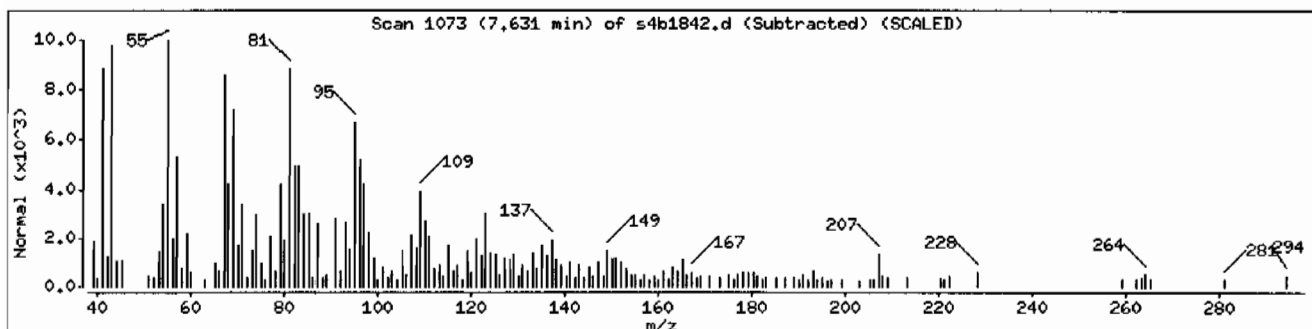
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9,12-Octadecadienoic acid (Z,Z)-, methyl	112-63-0	NIST05.L	121107	95	C19H34O2	294
E,E,Z-1,3,12-Nonadecatriene-5,14-diol	1000131-11-4	NIST05.L	121084	93	C19H34O2	294
9,17-Octadecadienal, (Z)-	56554-35-9	NIST05.L	101505	90	C18H32O	264



Date: 19-FEB-2010 01:52

Client ID: RE15-10-8300RE

Instrument: HSD4.i

Sample Info: 1246330009195445111SVH111LANL

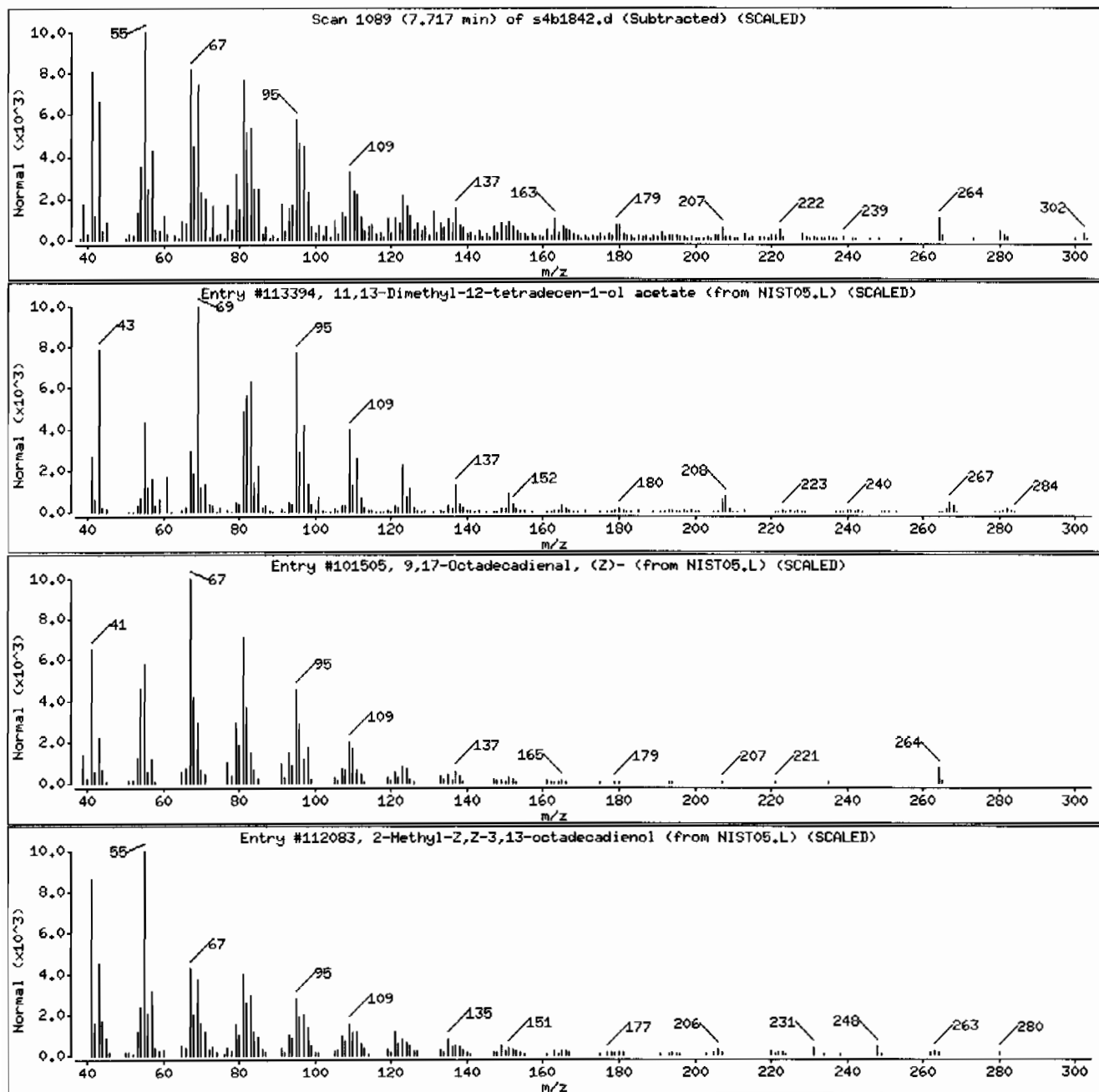
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
11,13-Dimethyl-12-tetradecen-1-ol acetat	1000130-81-0	NIST05.L	113394	87	C18H34O2	282
9,17-Octadecadienal, (Z)-	56554-35-9	NIST05.L	101505	83	C18H32O	264
2-Methyl-2,Z-3,13-octadecadienol	1000130-90-5	NIST05.L	112083	83	C19H36O	280



Date : 19-FEB-2010 01:52

Client ID: RE15-10-8300RE

Instrument: MSD4.i

Sample Info: I246330009195445111SVH111LANL

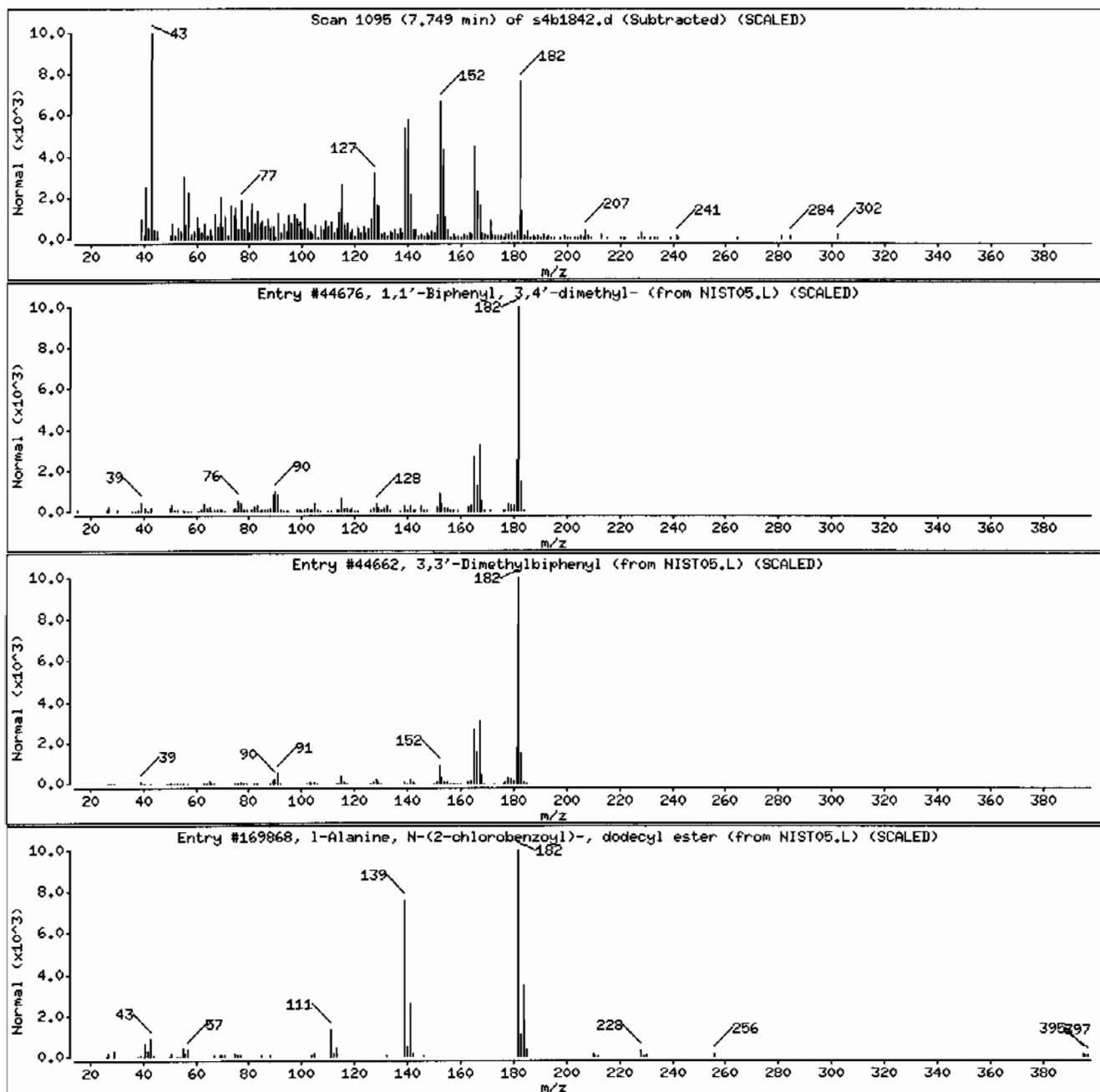
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,1'-Biphenyl, 3,4'-dimethyl-	7383-90-6	NIST05.L	44676	35	C14H14	182
3,3'-Dimethylbiphenyl	612-75-9	NIST05.L	44662	35	C14H14	182
l-Alanine, N-(2-chlorobenzoyl)-, dodecyl	1000314-20-0	NIST05.L	169868	27	C22H34ClNO3	395



Date : 19-FEB-2010 01:52

Client ID: RE15-10-8300RE

Instrument: MSD4.i

Sample Info: 1246330009195445111SVMI11LANL

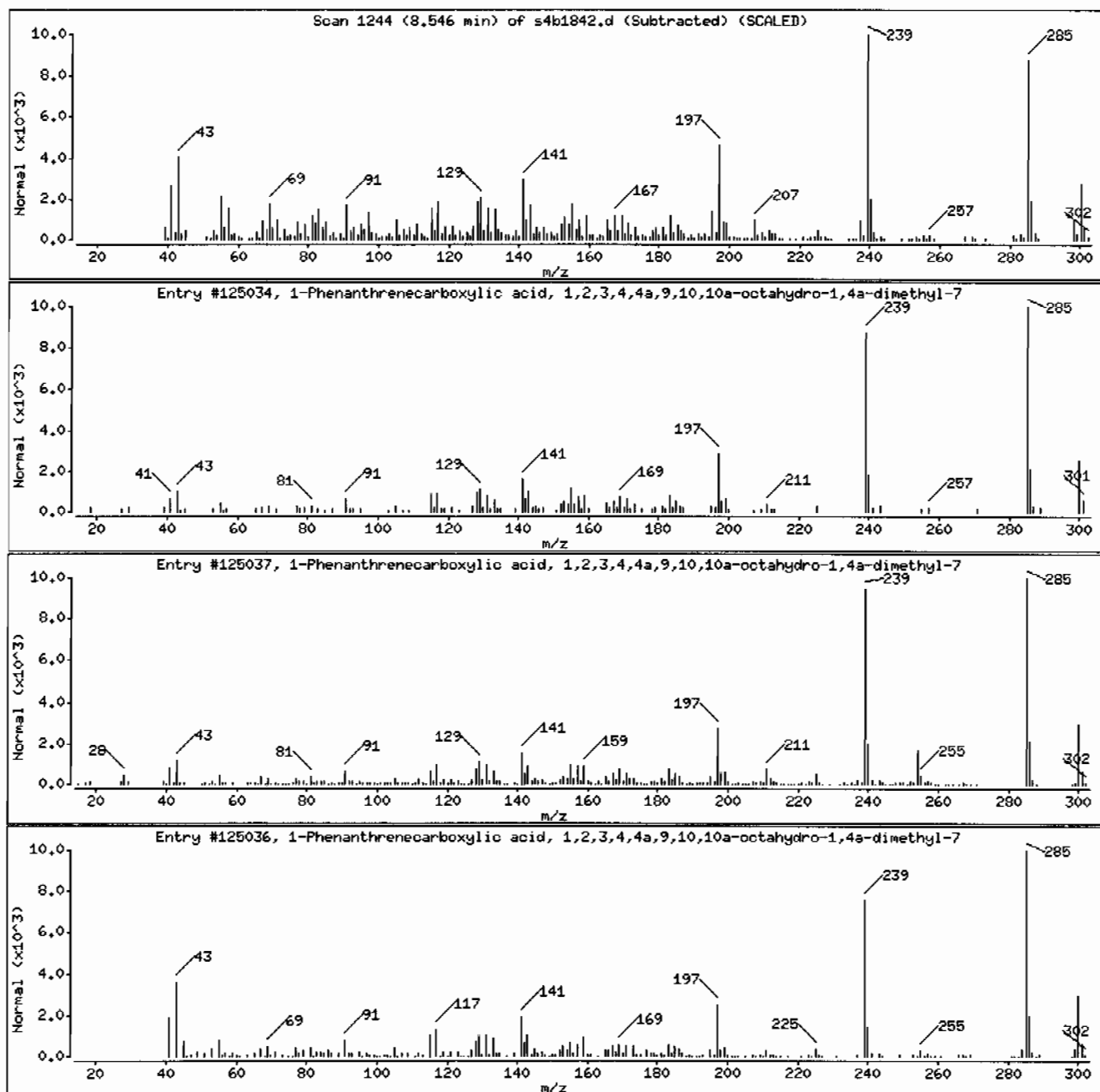
Volume Injected (uL): 0.5

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	97	C20H28O2	300
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1740-19-8	NIST05.L	125037	93	C20H28O2	300
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1740-19-8	NIST05.L	125036	93	C20H28O2	300



Date: 19-FEB-2010 01:52

Client ID: RE15-10-8300RE

Instrument: MSD4.i

Sample Info: 1246330009195445111SVH111LANL

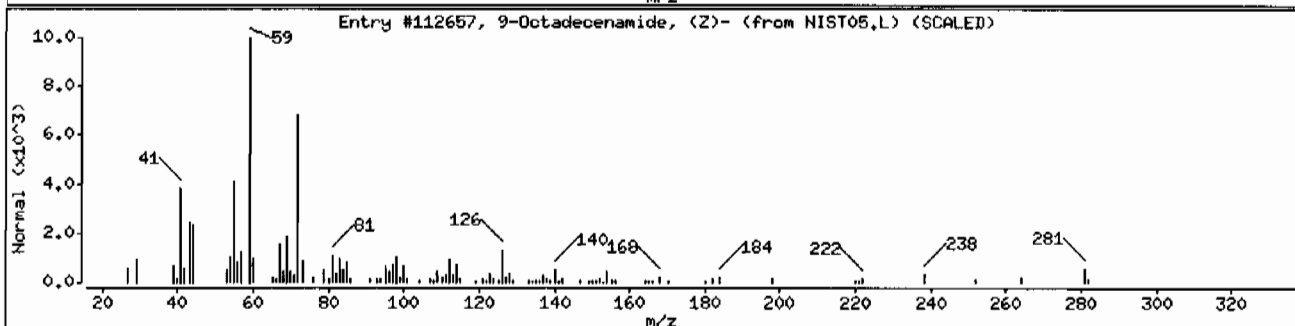
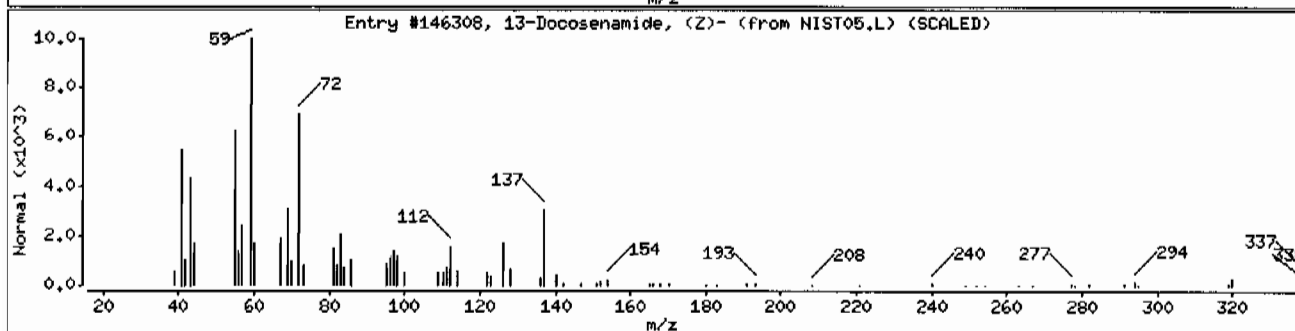
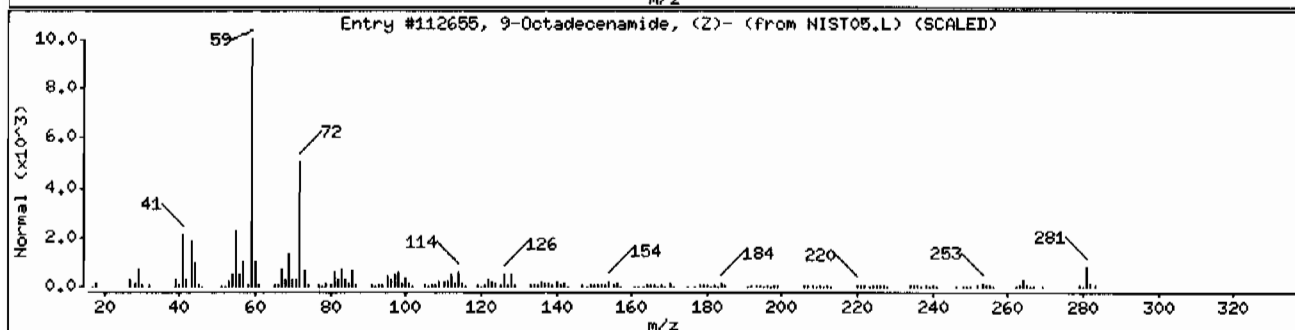
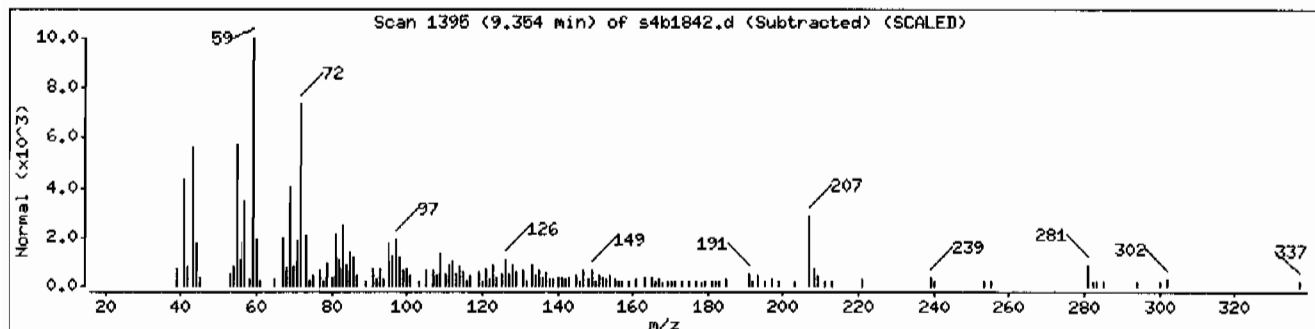
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112655	94	C18H35NO	281
13-Docosenamide, (Z)-	112-84-5	NIST05.L	146308	59	C22H43NO	337
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112657	58	C18H35NO	281



Date: 19-FEB-2010 01:52

Client ID: RE15-10-8300RE

Instrument: HSD4,i

Sample Info: 1246330009195445111SVMI11LANL

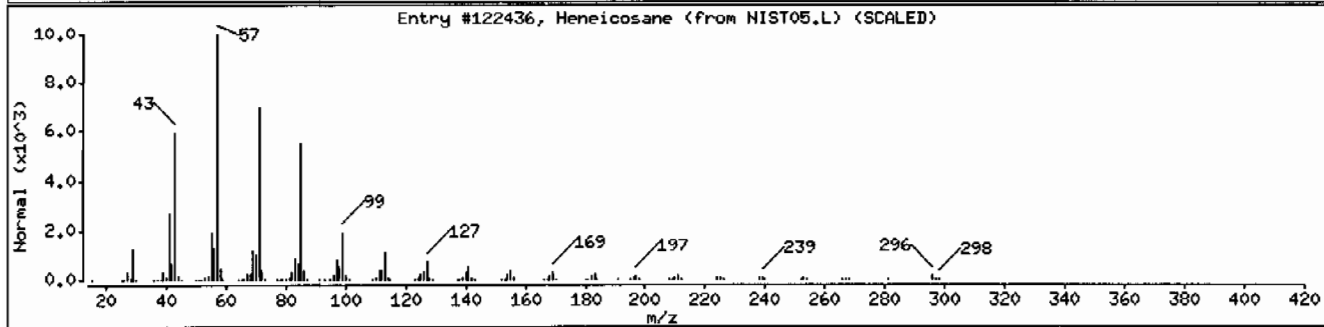
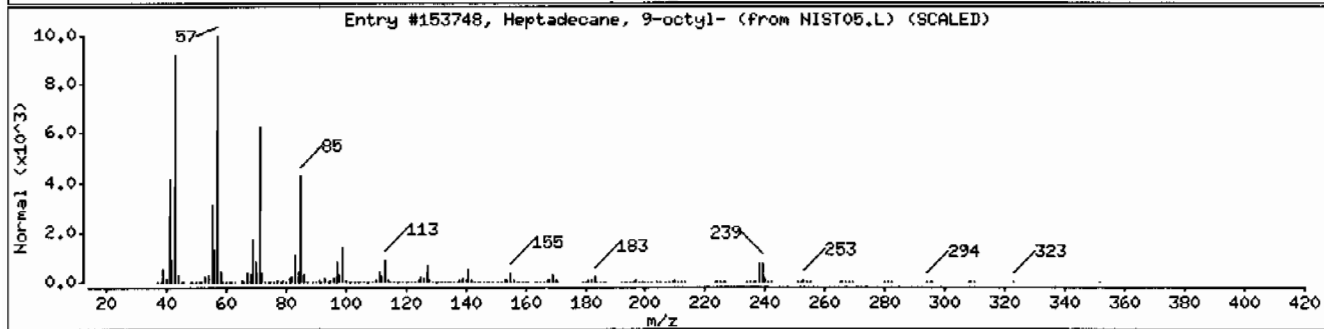
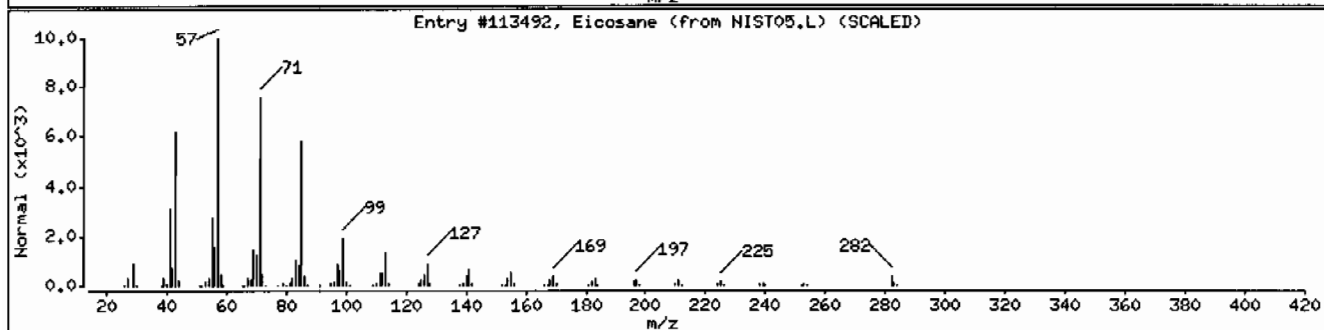
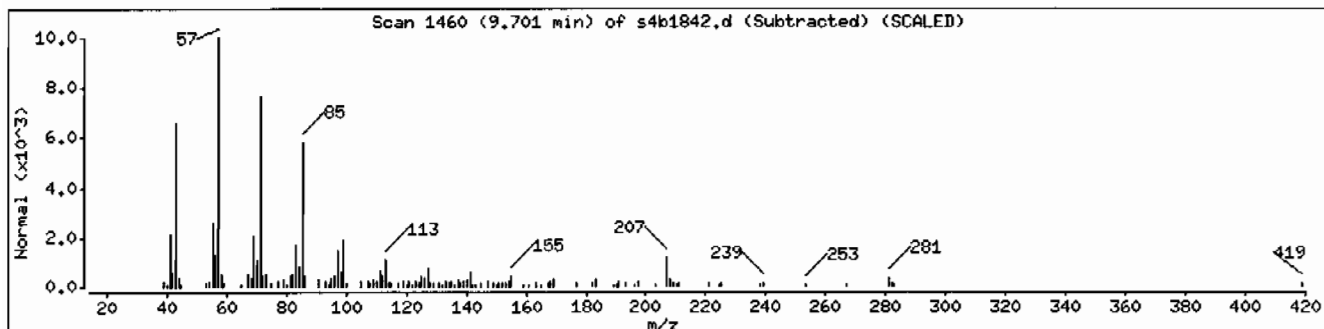
Volume Injected (uL): 0.5

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	98	C20H42	282
Heptadecane, 9-octyl-	7225-64-1	NIST05.L	153748	90	C25H52	352
Heneicosane	629-94-7	NIST05.L	122436	90	C21H44	296



Date : 19-FEB-2010 01:52

Client ID: RE15-10-8300RE

Instrument: MSD4.i

Sample Info: 1246330009195445111SVH111LANL

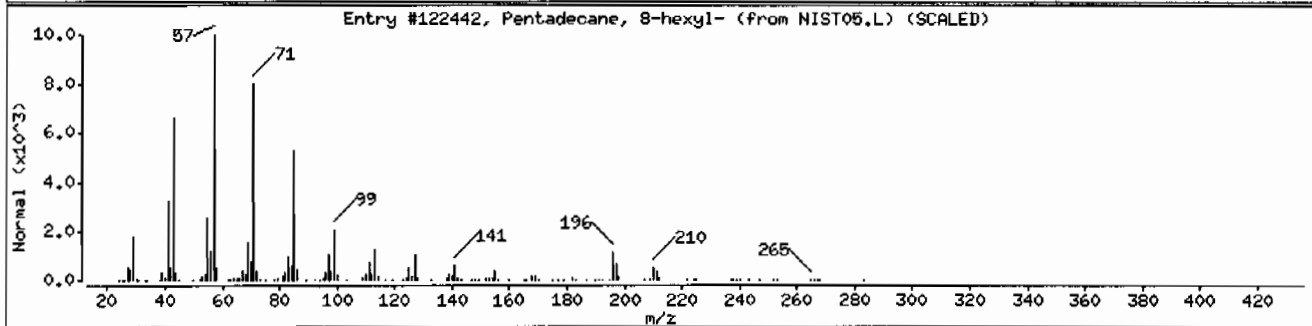
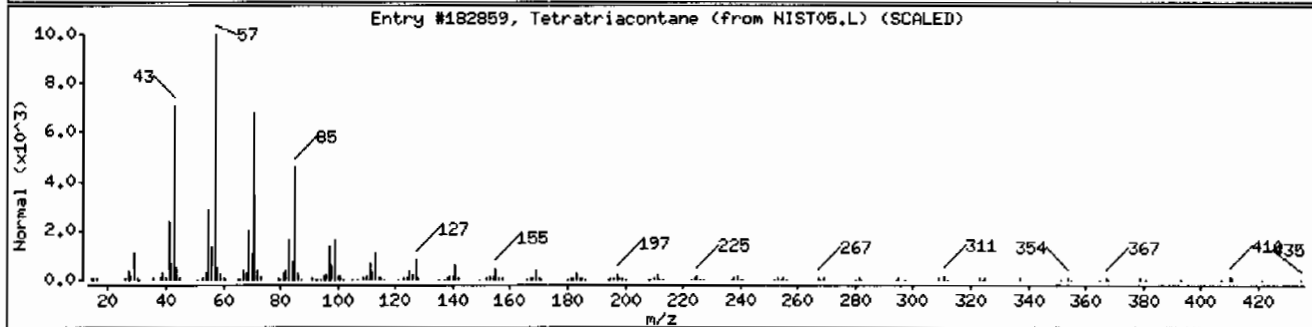
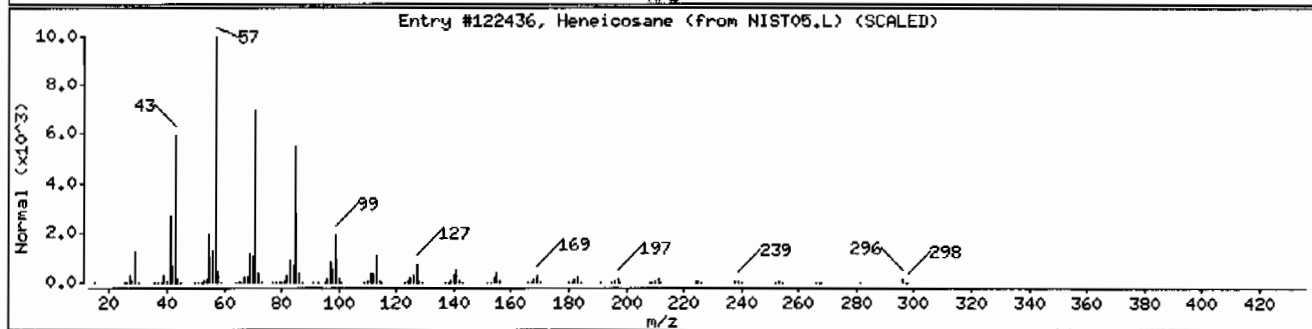
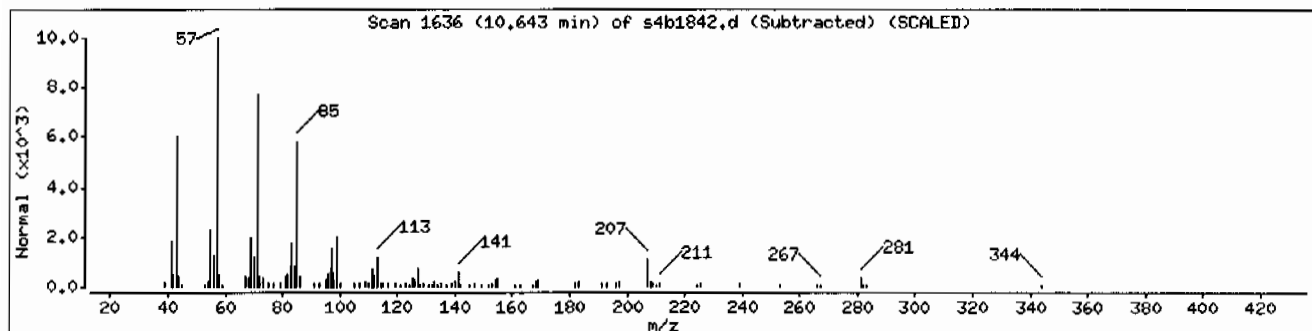
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heneicosane	629-94-7	NIST05.L	122436	90	C ₂₁ H ₄₄	296
Tetratriacontane	14167-59-0	NIST05.L	182859	90	C ₃₄ H ₇₀	479
Pentadecane, 8-hexyl-	13475-75-7	NIST05.L	122442	87	C ₂₁ H ₄₄	296



Date: 19-FEB-2010 01:52

Client ID: RE15-10-8300RE

Instrument: MSD4.i

Sample Info: I246330009195445111SVH111LANL

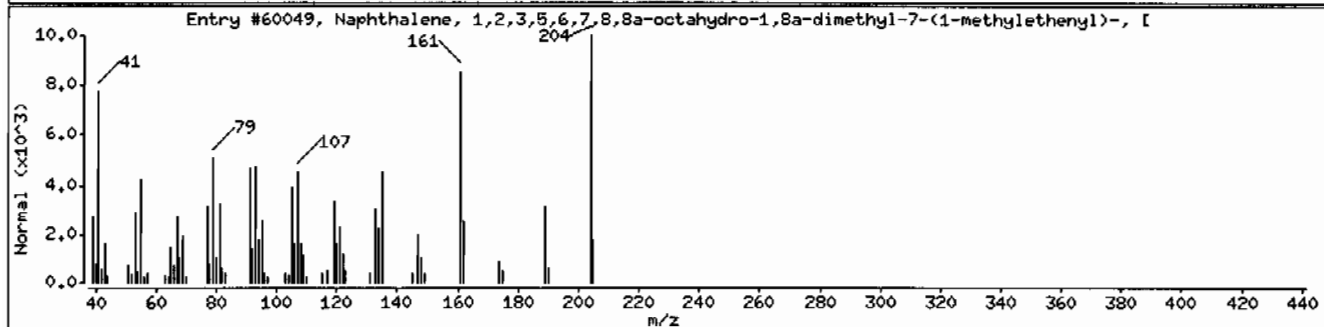
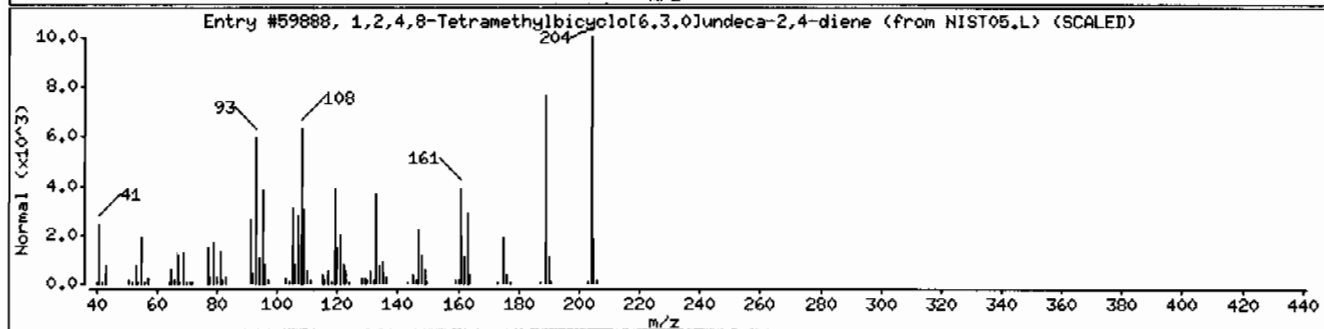
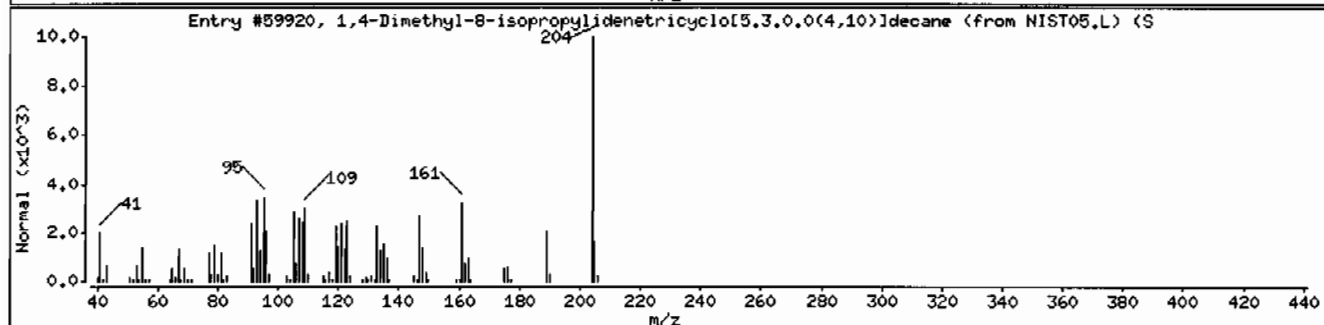
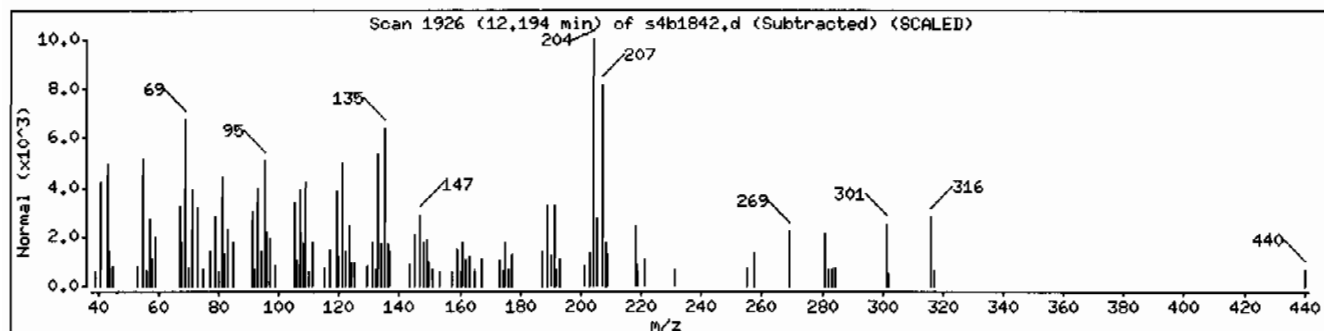
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,4-Dimethyl-8-isopropylidenetricyclo[5,3,0,0(4,10)]decane	1000140-07-7	NIST05.L	59920	53	C15H24	204
1,2,4,8-Tetramethylbicyclo[6,3,0]undeca-	137235-51-9	NIST05.L	59888	41	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60049	38	C15H24	204



Date: 19-FEB-2010 01:52

Client ID: RE15-10-8300RE

Instrument: MSD4.i

Sample Info: 1246330009195445111SVMI11LANL

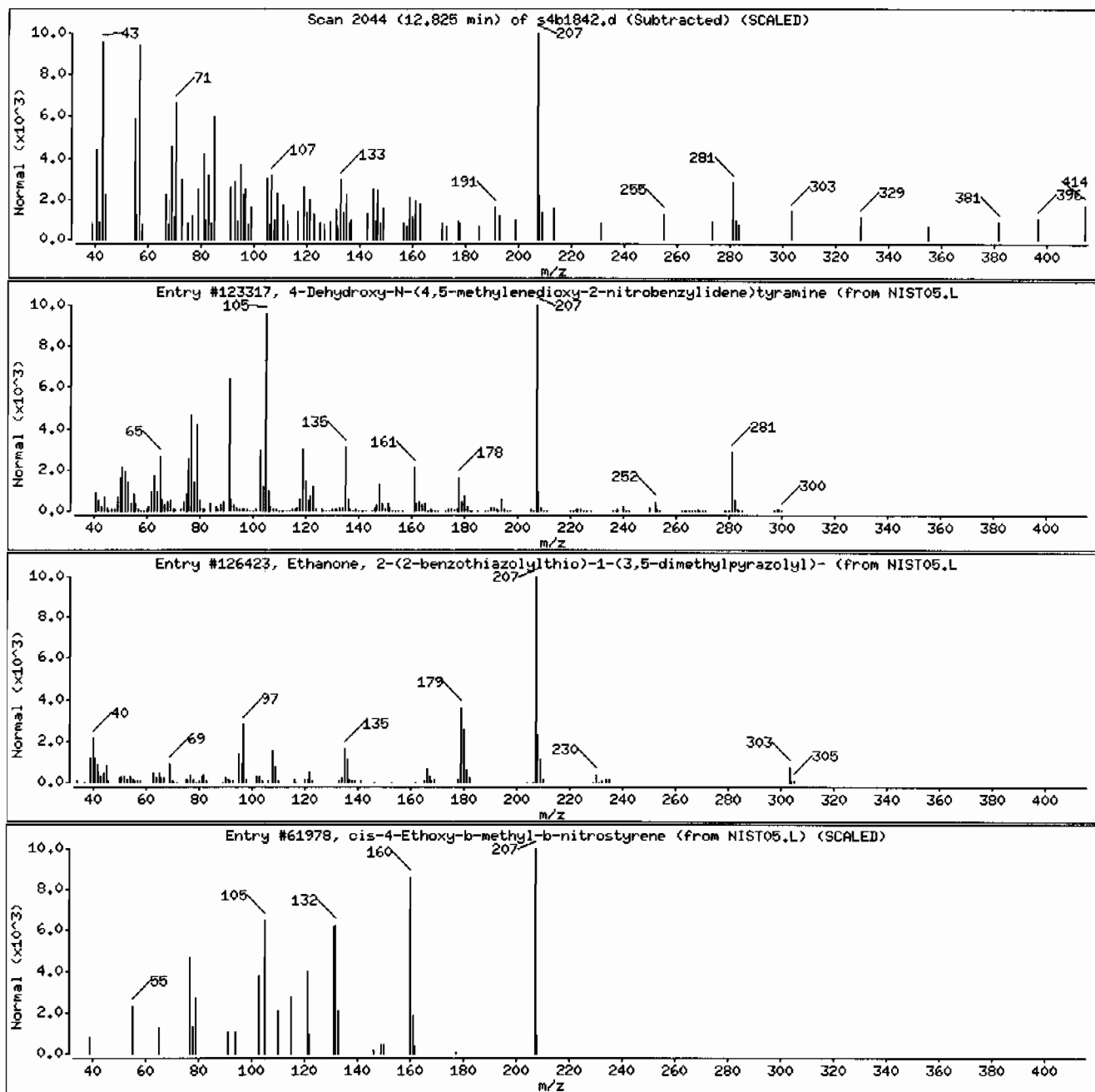
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
4-Dehydroxy-N-(4,5-methylenedioxy-2-nitr	1000111-66-9	NIST05.L	123317	37	C16H14N2O4	298
Ethanone, 2-(2-benzothiazolylthio)-1-(3,	155670-84-1	NIST05.L	126423	35	C14H13N3OS2	303
cis-4-Ethoxy-b-methyl-b-nitrostyrene	1000120-36-6	NIST05.L	61978	35	C11H13NO3	207



Date : 19-FEB-2010 01:52

Client ID: RE15-10-8300RE

Instrument: HSD4.i

Sample Info: 1246330009195445111|SVH11|LANL

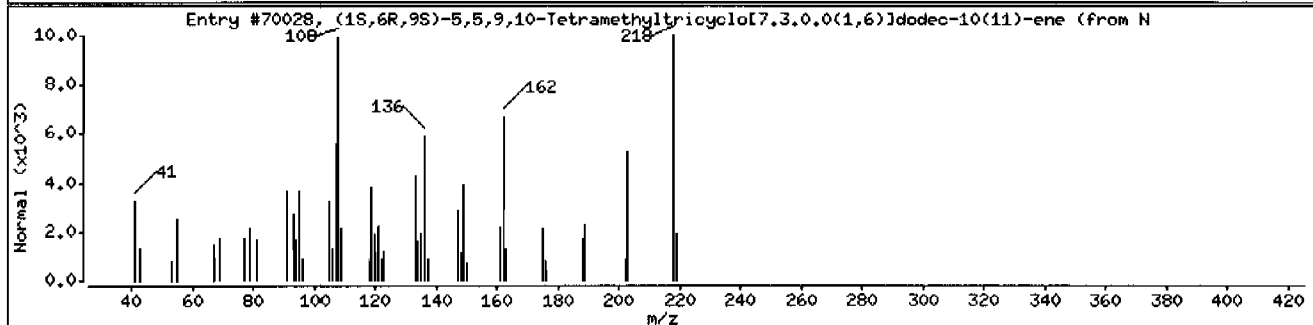
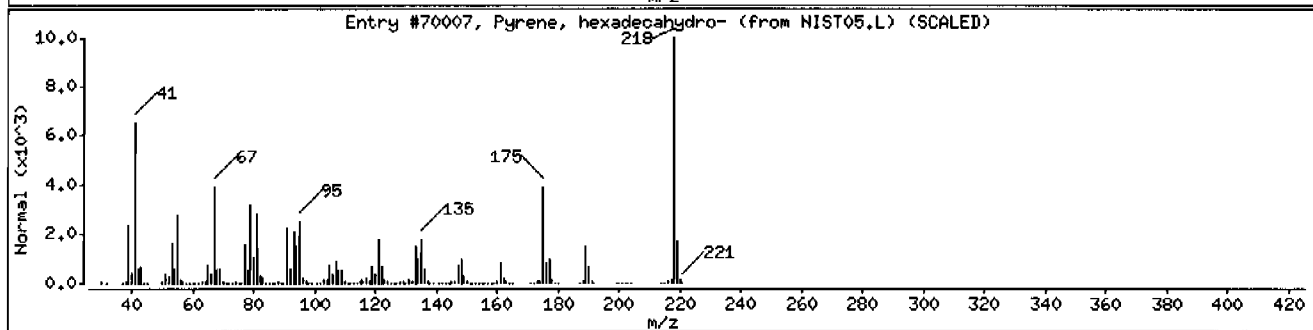
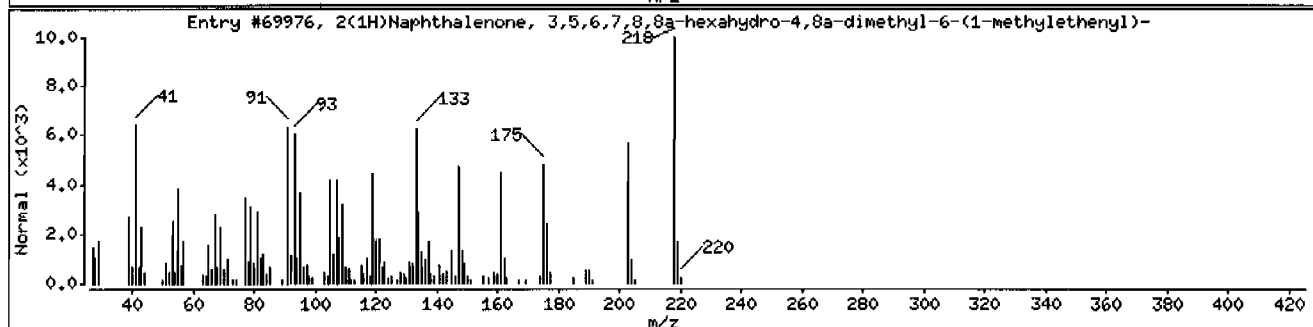
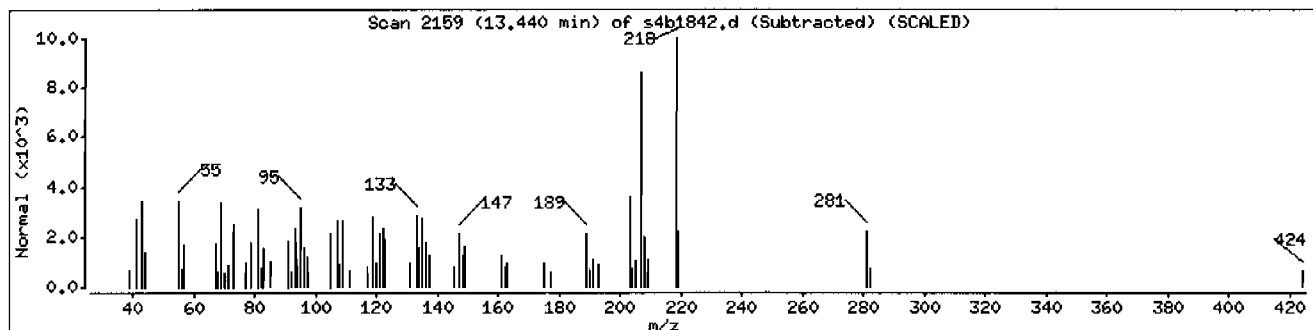
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2(1H)Naphthalenone, 3,5,6,7,8,8a-hexahyd	1000188-66-5	NIST05.L	69976	50	C15H22O	218
Pyrene, hexadecahydro-	2435-85-0	NIST05.L	70007	42	C16H26	218
(1S,6R,9S)-5,5,9,10-Tetramethyltricyclo[1000298-97-8	NIST05.L	70028	38	C16H26	218



Date : 19-FEB-2010 01:52

Client ID: RE15-10-8300RE

Instrument: MSD4.i

Sample Info: 1246330009195445111SVH111LANL

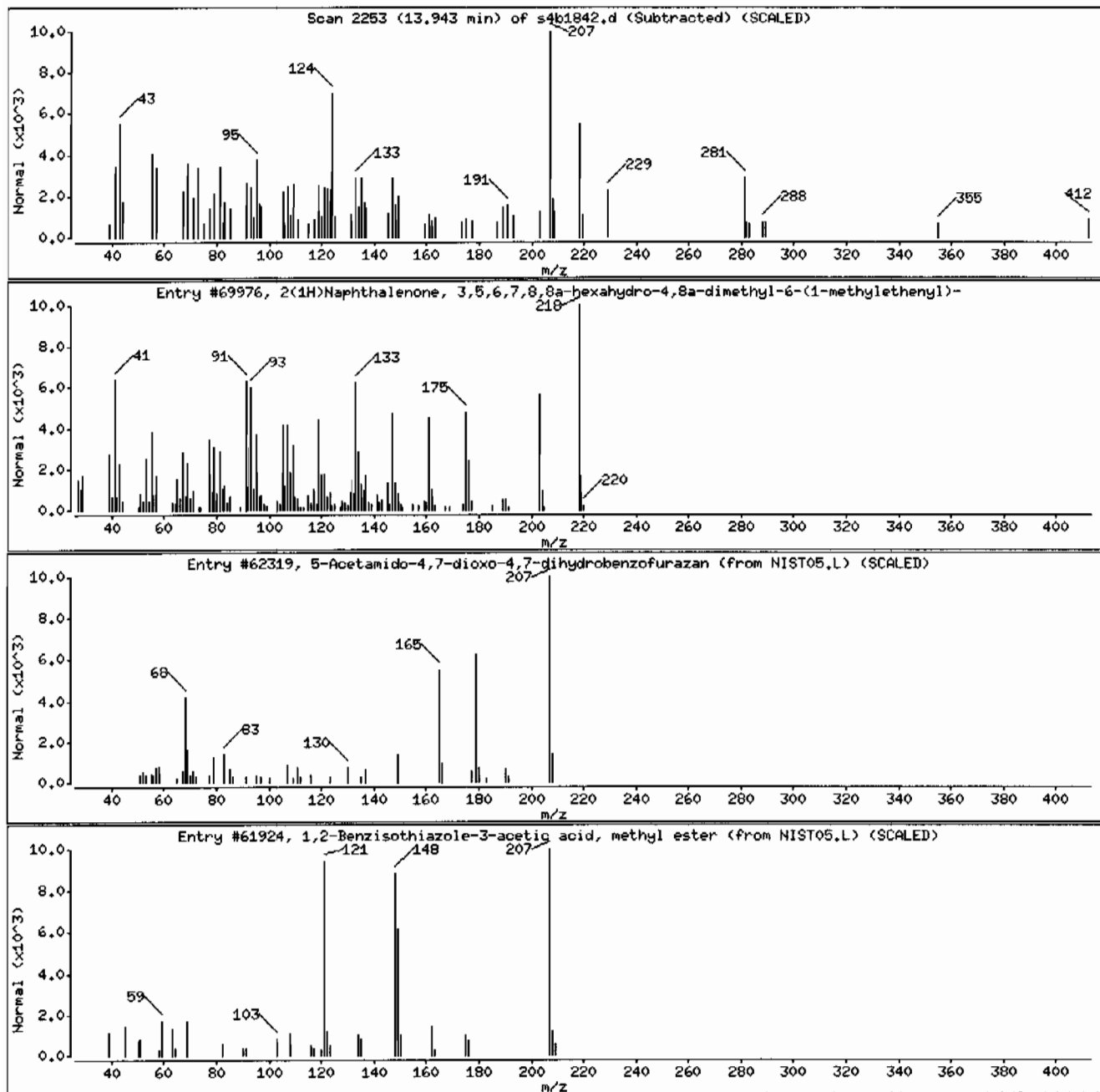
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2(1H)Naphthalenone, 3,5,6,7,8,8a-hexahyd	1000188-66-5	NIST05.L	69976	44	C15H22O	218
5-Acetamido-4,7-dioxo-4,7-dihydrobenzofu	153136-27-7	NIST05.L	62319	30	C8H5N3O4	207
1,2-Benzisothiazole-3-acetic acid, methy	29876-70-8	NIST05.L	61924	27	C10H9NO2S	207



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

SDG Number: 10-1567
Lab Sample ID: 246330008

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.01 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: RE15-10-8301
Batch ID: 950447
Run Date: 02/16/2010 22:25
Prep Date: 02/09/2010 11:07
Data File: s6b1626.d

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: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330008	Date Received: 02/05/2010 09:00	%Moisture: 6
Client ID: RE15-10-8301	Client: LANL010	Project: LANL01004
Batch ID: 950447	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/16/2010 22:25	Inst: MSD6.I	Dilution: 1
Prep Date: 02/09/2010 11:07	Analyst: NAG1	Inj. Vol: .5 uL
Data File: s6b1626.d	Aliquot: 30.01 g	Final Volume: 1 mL
	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 Aldol Condensate	3.27	283	ug/kg		JA
301-02-0	9-Octadecenamide, (Z)-	11.61	217	ug/kg	95	NJ

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330008	Date Received: 02/05/2010 09:00	%Moisture: 6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8301	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.I	Dilution: 1
Run Date: 02/16/2010 22:25	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Aliquot: 30.01 g	Final Volume: 1 mL
Data File: s6b1626.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
	Unknown	13.5	845	ug/kg		J
	Unknown	16.68	316	ug/kg		J

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Data file : /chem/MSD6.i/s021610.b/s6b1626.d
 Lab Smp Id: 246330008 Client Smp ID: RE15-10-8301
 Inj Date : 16-FEB-2010 22:25
 Operator : nag1 Inst ID: MSD6.i
 Smp Info : |246330008|950447|1|SVM|1|LANL
 Misc Info : |MSD8270_S|WBN100205-01
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
 Meth Date : 16-Feb-2010 17:39 nat00999 Quant Type: ISTD
 Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
 Als bottle: 20
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1567.sub
 Target Version: 3.50
 Processing Host: hpclp1

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	30.01000	weight of sample
M	5.98190	% 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	4.648	4.650 (1.000)	276518	40.0000	
* 29 Naphthalene-d8	136	5.914	5.917 (1.000)	1014514	40.0000	
* 46 Acenaphthene-d10	164	7.777	7.779 (1.000)	590815	40.0000	
* 67 Phenanthrene-d10	188	9.382	9.382 (1.000)	1022308	40.0000	
* 91 Chrysene-d12	240	12.330	12.338 (1.000)	741421	40.0000	
* 98 Perylene-d12	264	14.555	14.557 (1.000)	467172	40.0000	
\$ 3 2-Fluorophenol	112	3.514	3.496 (0.756)	417166	60.2438	2140
\$ 5 Phenol-d5	99	4.278	4.273 (0.920)	554513	63.4466	2250
\$ 20 Nitrobenzene-d5	82	5.180	5.185 (0.876)	226037	31.4963	1120
\$ 39 2-Fluorobiphenyl	172	7.040	7.040 (0.905)	475595	31.2362	1110
\$ 60 2,4,6-Tribromophenol	329	8.625	8.625 (1.109)	121614	70.5242	2500
\$ 81 p-Terphenyl-d14	244	11.087	11.087 (0.899)	571738	47.8176	1690

ION RATIO REPORT

SV REPORT

Data file: s6b1626.d

Report Date: 02/17/2010 07:12

Lab. ID: 246330008

SampleType: SAMPLE

Injection Date: 16-FEB-2010 22:25

Operator: nagl

Instrument: MSD6.i

Sample Info: |246330008|950447|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01

Comment:

Method used: /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1567

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4 Aniline		CAS#: 62-53-3				
66	30264	4.28	4.34	80-120	100	(T)
93	3057	4.32	4.34	216-276	10	(Q)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	31928	5.18	5.02	80-120	100	(T)
42	19077	5.18	5.02	43-103	60	(T)

22 Isophorone		CAS#: 78-59-1				
82	226037	5.18	5.44	80-120	100	(T)
138	5365	5.92	5.44	0- 49	2	(T)

43 Dimethylphthalate		CAS#: 131-11-3				
163	105421	7.78	7.47	80-120	100	(T)
164	590815	7.78	7.47	0- 40	560	(QT)

50 2,4-Dinitrotoluene		CAS#: 121-14-2				
165	75714	7.78	7.98	80-120	100	(T)
89	949	7.77	7.98	45-105	1	(QT)
63	854	7.77	7.98	24- 84	1	(QT)

53 Fluorene		CAS#: 86-73-7				
166	8283	8.62	8.37	80-120	100	(T)
165	7848	8.63	8.37	62-122	95	(T)
167	1792	8.62	8.37	0- 44	22	(T)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
55	2-Methyl-4,6-dinitrophenol			CAS#: 534-52-1		
198	260	8.62	8.42	80-120	100	(T)
105	937	8.62	8.42	12- 72	360	(QT)
51	750	8.62	8.42	27- 87	288	(QT)

61	4-Bromophenylphenylether			CAS#: 101-55-3		
248	9241	8.62	8.88	80-120	100	(T)
141	67873	8.62	8.88	52-112	734	(QT)
250	17904	8.63	8.88	68-128	194	(QT)

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

Data file : /chem/MSD6.i/s021610.b/s6b1626.d
Lab Smp Id: 246330008 Client Smp ID: RE15-10-8301
Inj Date : 16-FEB-2010 22:25
Operator : nag1 Inst ID: MSD6.i
Smp Info : |246330008|950447|1|SVM|1|LANL
Misc Info : |MSD8270 S|WBN100205-01
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
Meth Date : 16-Feb-2010 17:39 nat00999 Quant Type: ISTD
Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.sub
Target Version: 3.50
Processing Host: hpc1p1

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	30.01000	weight of sample
M	5.98190	% moisture

Cpnd Variable

Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	4.648	1643346	40.000
* 91 Chrysene-d12	12.330	1987898	40.000
* 98 Perylene-d12	14.555	1322841	40.000

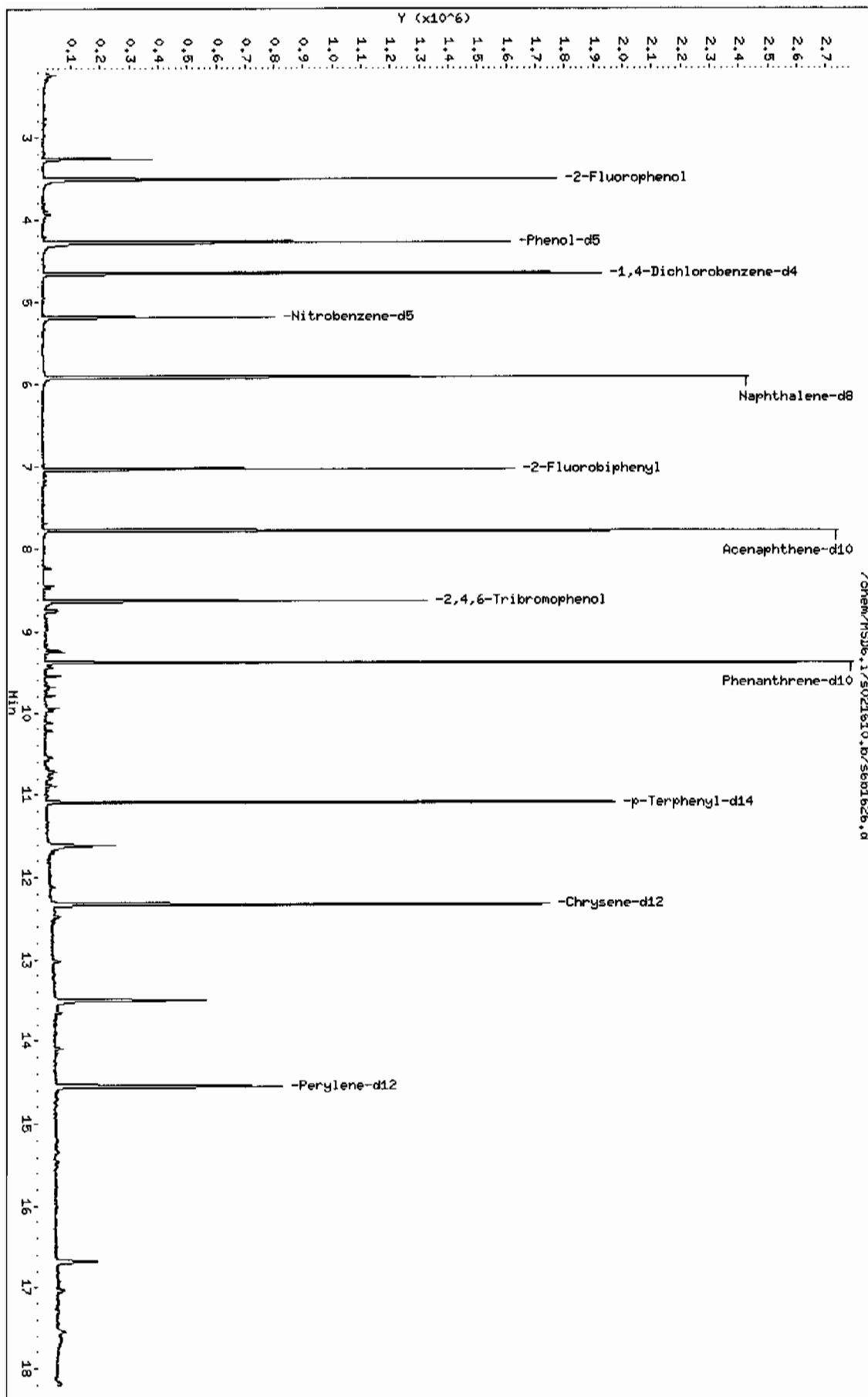
CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate					CAS #:		
3.269	327613	7.97429253	283	0		0	10
9-Octadecenamide, (Z)-					CAS #: 301-02-0		
11.609	304257	6.12218236	217	95	NIST05.L	112657	91
Unknown					CAS #:		
13.502	788315	23.8370158	845	0		0	98
Unknown					CAS #:		
16.677	294392	8.90181486	316	0		0	98

Data File: /chem/HSD6.i/5021610.b/s6b1626.d
Date: 16-FEB-2010 22:25
Client ID: REL5-10-8301
Sample Info: 1246330008195044711.SW111.LANL
Volume Injected (uL): 0.5
Column phase: J&W DB-5HS

Instrument: HSD6.i
Operator: nag1
Column diameter: 0.20

Page 1



Date : 16-FEB-2010 22:25

Client ID: RE15-10-8301

Instrument: MSD6.i

Sample Info: I246330008195044711|SVM11|LANL

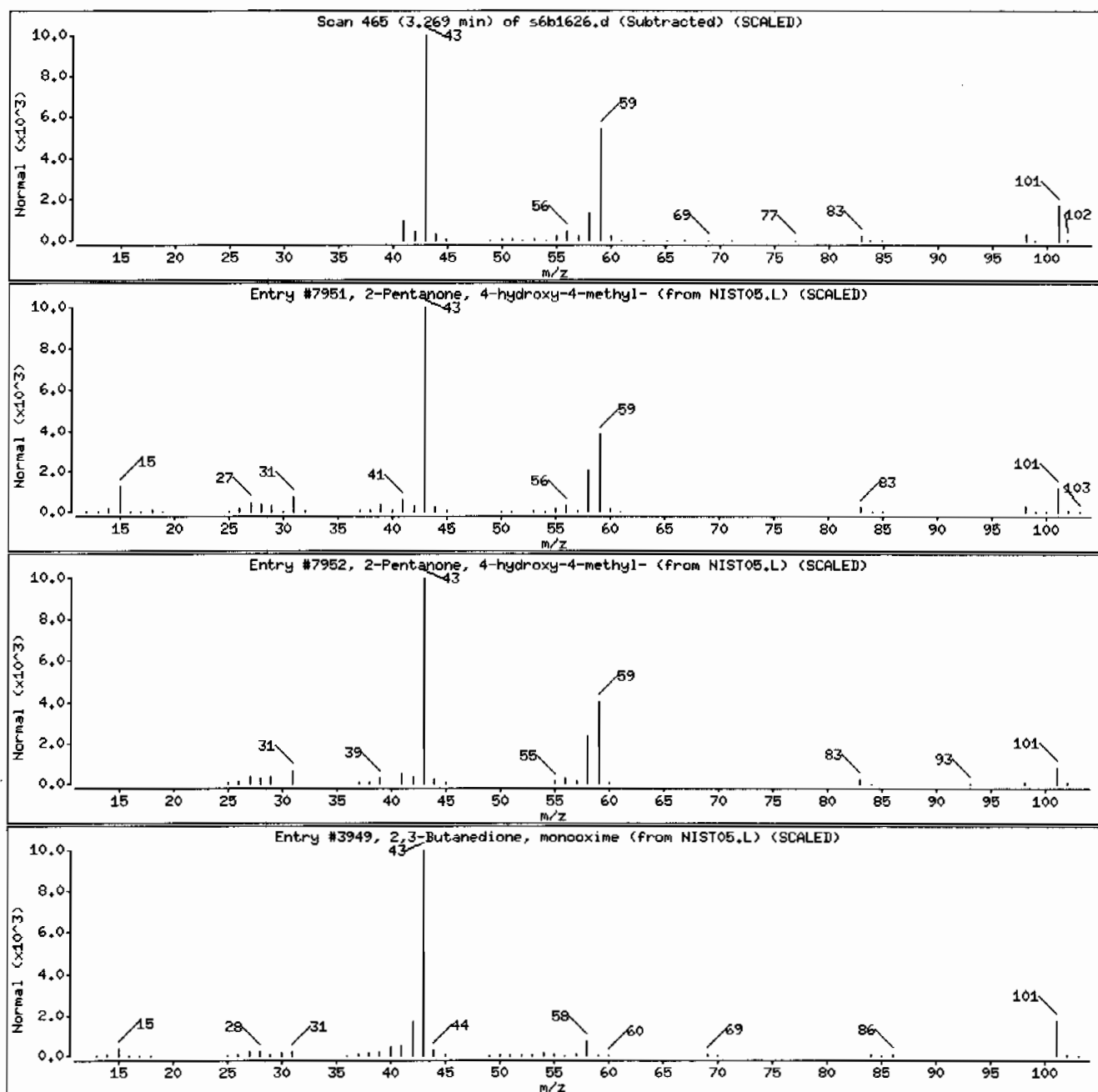
Volume Injected (uL): 0.5

Operator: nag1

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	56	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	3949	16	C4H7NO2	101



Date : 16-FEB-2010 22:25

Client ID: RE15-10-8301

Instrument: MSD6.i

Sample Info: 1246330008195044711SVH11ILANL

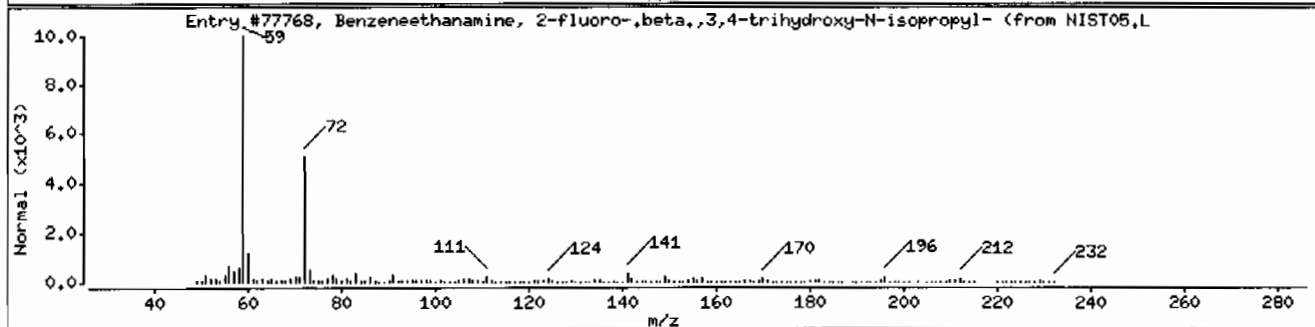
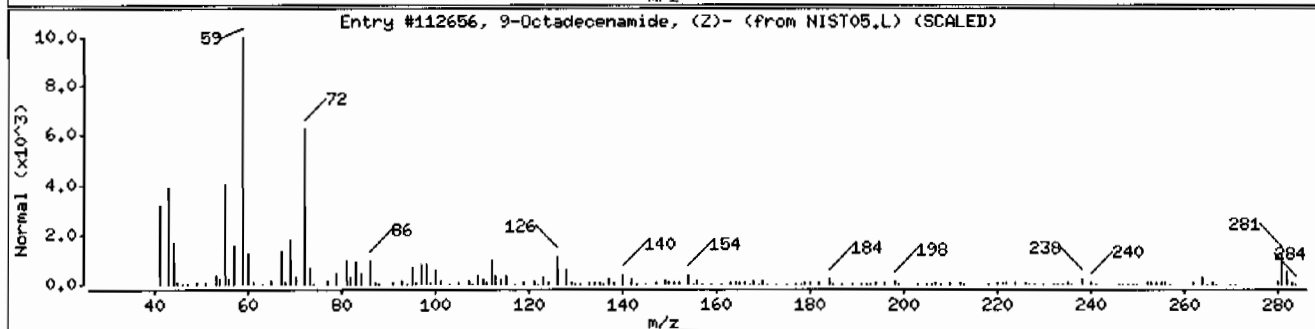
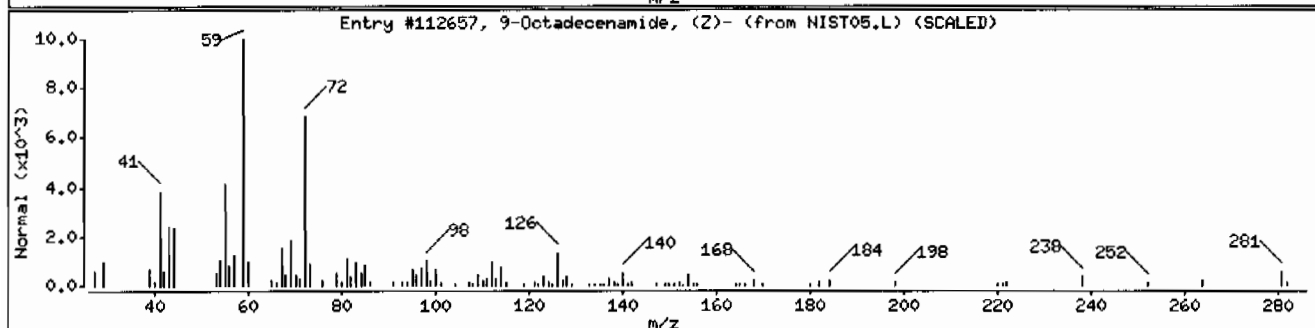
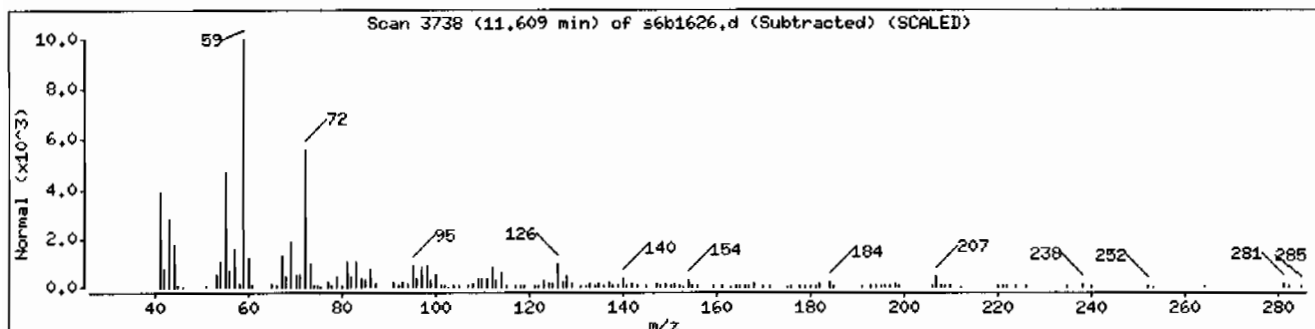
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112657	95	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112656	81	C18H35NO	281
Benzeneethanamine, 2-fluoro-,beta.,3,4-t	61338-98-5	NIST05.L	77768	64	C11H16FN03	229



Date: 16-FEB-2010 22:25

Client ID: RE15-10-8301

Instrument: MSD6.i

Sample Info: 1246330008195044711SVH111LANL

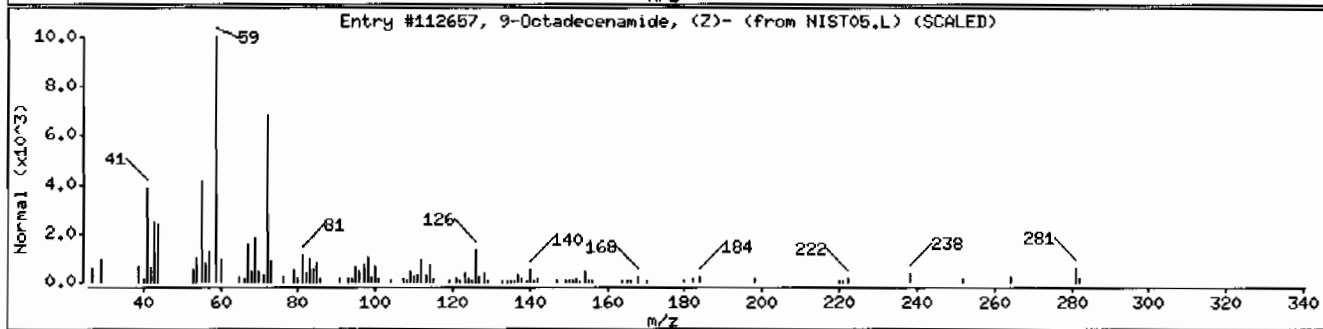
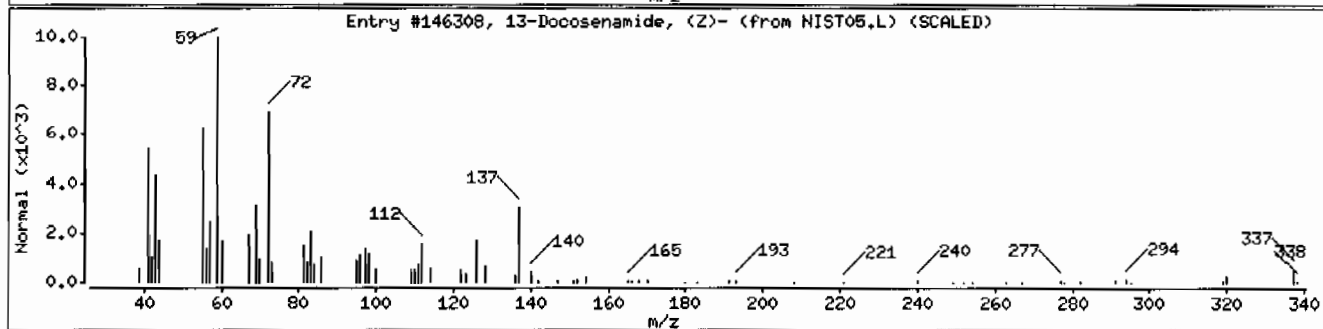
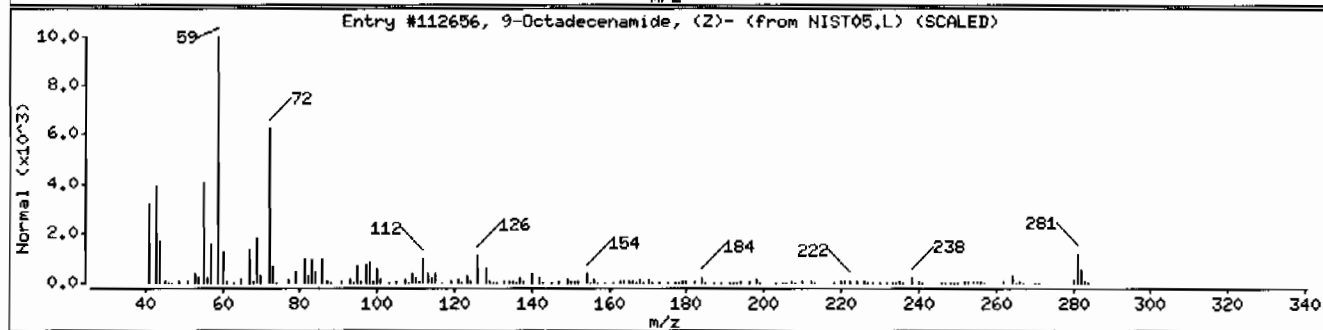
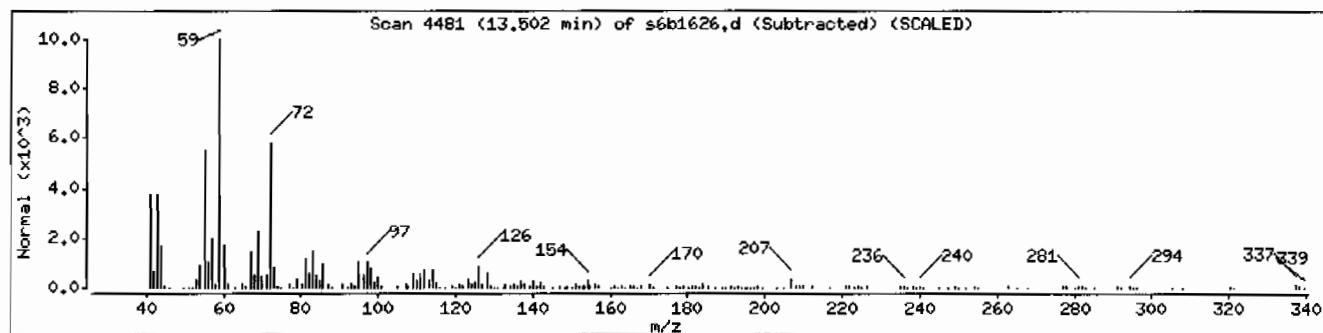
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112656	94	C18H35NO	281
13-Docosenamide, (Z)-	112-84-5	NIST05.L	146308	91	C22H43NO	337
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112657	89	C18H35NO	281



Date: 16-FEB-2010 22:25

Client ID: RE15-10-8301

Instrument: MSD6.i

Sample Info: 1246330008195044711SVH11ILANL

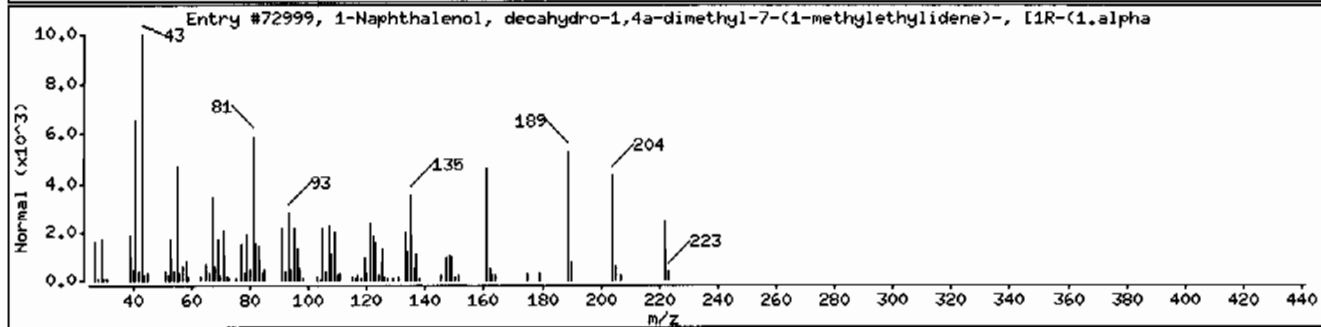
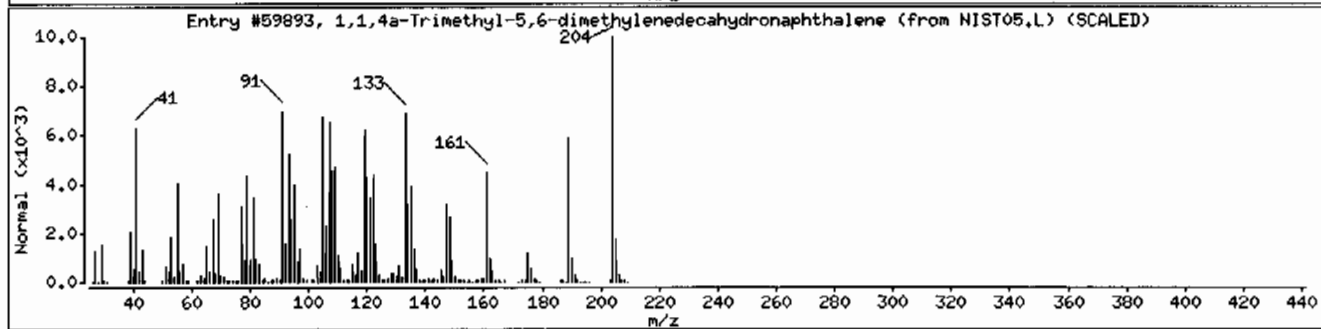
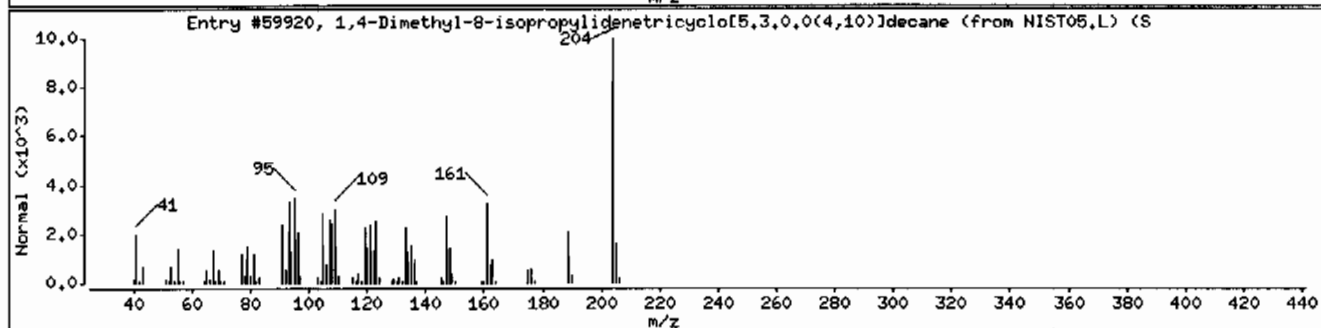
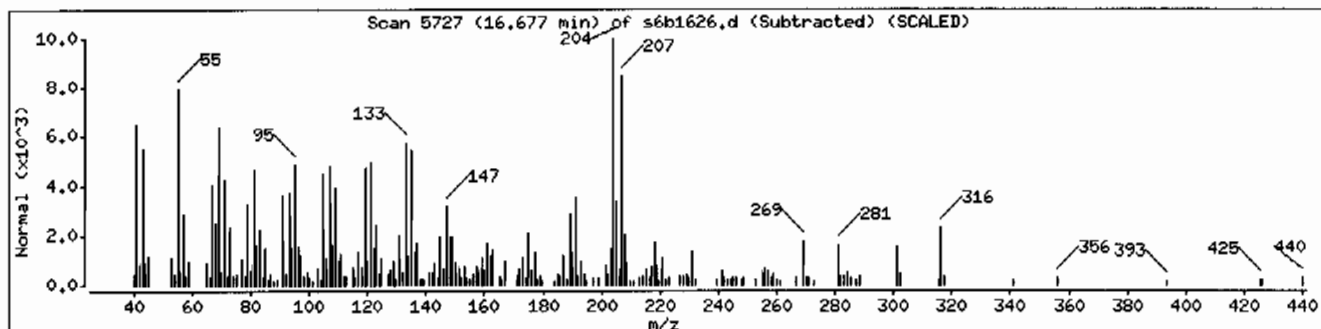
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,4-Dimethyl-8-isopropylidenetricyclo[5.	1000140-07-7	NIST05.L	59920	50	C15H24	204
1,1,4a-Trimethyl-5,6-dimethylenedecahydr	1000193-60-8	NIST05.L	59893	47	C15H24	204
1-Naphthalenol, decahydro-1,4a-dimethyl-	473-04-1	NIST05.L	72999	47	C15H26O	222



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

Page 1 of 3

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330002	Date Received: 02/05/2010 09:00	%Moisture: 20.3
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8304	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.1	Dilution: 1
Run Date: 02/16/2010 19:37	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Aliquot: 30 g	Final Volume: 1 mL
Data File: s6b1620.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	418	ug/kg	83.7	418
108-95-2	Phenol	U	418	ug/kg	83.7	418
95-57-8	2-Chlorophenol	U	418	ug/kg	83.7	418
106-46-7	1,4-Dichlorobenzene	U	418	ug/kg	83.7	418
621-64-7	N-Nitrosodipropylamine	U	418	ug/kg	83.7	418
59-50-7	4-Chloro-3-methylphenol	U	418	ug/kg	83.7	418
83-32-9	Acenaphthene	U	41.8	ug/kg	13.8	41.8
121-14-2	2,4-Dinitrotoluene	U	418	ug/kg	41.8	418
100-02-7	4-Nitrophenol	U	418	ug/kg	138	418
87-86-5	Pentachlorophenol	U	418	ug/kg	105	418
129-00-0	Pyrene	U	41.8	ug/kg	12.6	41.8
110-86-1	Pyridine	U	418	ug/kg	83.7	418
62-53-3	Aniline	U	418	ug/kg	126	418
111-44-4	bis(2-Chloroethyl) ether	U	418	ug/kg	83.7	418
541-73-1	1,3-Dichlorobenzene	U	418	ug/kg	83.7	418
100-51-6	Benzyl alcohol	U	418	ug/kg	126	418
95-50-1	1,2-Dichlorobenzene	U	418	ug/kg	83.7	418
108-60-1	bis(2-Chloroisopropyl)ether	U	418	ug/kg	83.7	418
95-48-7	o-Cresol	U	418	ug/kg	83.7	418
65794-96-9	m,p-Cresols	U	418	ug/kg	126	418
67-72-1	Hexachloroethane	U	418	ug/kg	83.7	418
98-95-3	Nitrobenzene	U	418	ug/kg	83.7	418
78-59-1	Isophorone	U	418	ug/kg	83.7	418
88-75-5	2-Nitrophenol	U	418	ug/kg	83.7	418
105-67-9	2,4-Dimethylphenol	U	418	ug/kg	146	418
111-91-1	bis(2-Chloroethoxy)methane	U	418	ug/kg	83.7	418
120-83-2	2,4-Dichlorophenol	U	418	ug/kg	83.7	418
65-85-0	Benzoic acid	U	837	ug/kg	209	837
91-20-3	Naphthalene	U	41.8	ug/kg	12.6	41.8
106-47-8	4-Chloroaniline	U	418	ug/kg	83.7	418
87-68-3	Hexachlorobutadiene	U	418	ug/kg	83.7	418
91-57-6	2-Methylnaphthalene	U	41.8	ug/kg	8.37	41.8
77-47-4	Hexachlorocyclopentadiene	U	418	ug/kg	83.7	418
88-06-2	2,4,6-Trichlorophenol	U	418	ug/kg	83.7	418
95-95-4	2,4,5-Trichlorophenol	U	418	ug/kg	83.7	418
91-58-7	2-Chloronaphthalene	U	41.8	ug/kg	13.8	41.8
88-74-4	2-Nitroaniline	U	418	ug/kg	83.7	418
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	418	ug/kg	83.7	418

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

SDG Number: 10-1567
Lab Sample ID: 246330002

Client ID: RE15-10-8304
Batch ID: 950447
Run Date: 02/16/2010 19:37
Prep Date: 02/09/2010 11:07
Data File: s6b1620.d

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.1
Analyst: NAG1
Aliquot: 30 g
Column: J&W DB-SMS

Matrix: R
%Moisture: 20.3
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	418	ug/kg	83.7	418
606-20-2	2,6-Dinitrotoluene	U	418	ug/kg	41.8	418
208-96-8	Acenaphthylene	U	41.8	ug/kg	12.6	41.8
51-28-5	2,4-Dinitrophenol	U	837	ug/kg	159	837
132-64-9	Dibenzofuran	U	418	ug/kg	83.7	418
84-66-2	Diethylphthalate	U	418	ug/kg	83.7	418
86-73-7	Fluorene	U	41.8	ug/kg	12.6	41.8
7005-72-3	4-Chlorophenylphenylether	U	418	ug/kg	83.7	418
534-52-1	2-Methyl-4,6-dinitrophenol	U	418	ug/kg	83.7	418
100-01-6	4-Nitroaniline	U	418	ug/kg	126	418
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	418	ug/kg	83.7	418
122-66-7	Azobenzene	U	418	ug/kg	83.7	418
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	418	ug/kg	83.7	418
118-74-1	Hexachlorobenzene	U	418	ug/kg	83.7	418
85-01-8	Phenanthrene	U	41.8	ug/kg	12.6	41.8
120-12-7	Anthracene	U	41.8	ug/kg	8.37	41.8
84-74-2	Di-n-butylphthalate	U	418	ug/kg	83.7	418
206-44-0	Fluoranthene	U	41.8	ug/kg	12.6	41.8
85-68-7	Butylbenzylphthalate	U	418	ug/kg	83.7	418
56-55-3	Benzo(a)anthracene	U	41.8	ug/kg	12.6	41.8
91-94-1	3,3'-Dichlorobenzidine	U	418	ug/kg	126	418
218-01-9	Chrysene	U	41.8	ug/kg	12.6	41.8
117-81-7	bis(2-Ethylhexyl)phthalate	U	418	ug/kg	83.7	418
117-84-0	Di-n-octylphthalate	U	418	ug/kg	83.7	418
205-99-2	Benzo(b)fluoranthene	U	41.8	ug/kg	12.6	41.8
207-08-9	Benzo(k)fluoranthene	U	41.8	ug/kg	12.6	41.8
50-32-8	Benzo(a)pyrene	U	41.8	ug/kg	12.6	41.8
193-39-5	Indeno(1,2,3-cd)pyrene	U	41.8	ug/kg	12.6	41.8
53-70-3	Dibenzo(a,h)anthracene	U	41.8	ug/kg	12.6	41.8
191-24-2	Benzo(ghi)perylene	U	41.8	ug/kg	12.6	41.8
120-82-1	1,2,4-Trichlorobenzene	U	418	ug/kg	83.7	418

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	224	ug/kg		JA
593-39-5	6-Octadecenoic acid, (Z)-	10.71	168	ug/kg	93	NJ

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

SDG Number:	10-1567	Date Collected:	02/01/2010 12:00	Matrix:	R
Lab Sample ID:	246330002	Date Received:	02/05/2010 09:00	%Moisture:	20.3
Client ID:	RE15-10-8304	Client:	LANL010	Project:	LANL01004
Batch ID:	950447	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Run Date:	02/16/2010 19:37	Inst:	MSD6.1	Dilution:	1
Prep Date:	02/09/2010 11:07	Analyst:	NAG1	Inj. Vol:	.5 uL
Data File:	s6b1620.d	Aliquot:	30 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
301-02-0	9-Octadecenamide, (Z)-	11.61	240	ug/kg	96	NJ
112-84-5	13-Docosenamide, (Z)-	13.5	866	ug/kg	93	NJ

GEL Laboratories LLC

Data file : /chem/MSD6.i/s021610.b/s6b1620.d
Lab Smp Id: 246330002 Client Smp ID: RE15-10-8304
Inj Date : 16-FEB-2010 19:37
Operator : nagl Inst ID: MSD6.i
Smp Info : |246330002|950447|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
Meth Date : 16-Feb-2010 17:39 nat00999 Quant Type: ISTD
Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.sub
Target Version: 3.50
Processing Host: hpc1p1

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	20.32590	% 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	4.650	4.650	(1.000)	283041	40.0000	
* 29 Naphthalene-d8	136	5.914	5.917	(1.000)	1064567	40.0000	
* 46 Acenaphthene-d10	164	7.777	7.779	(1.000)	608948	40.0000	
* 67 Phenanthrene-d10	188	9.380	9.382	(1.000)	1054015	40.0000	
* 91 Chrysene-d12	240	12.333	12.338	(1.000)	754559	40.0000	
* 98 Perylene-d12	264	14.550	14.557	(1.000)	412750	40.0000	
\$ 3 2-Fluorophenol	112	3.514	3.496	(0.756)	307951	43.4469	1820
\$ 5 Phenol-d5	99	4.276	4.273	(0.919)	417212	46.6367	1950
\$ 20 Nitrobenzene-d5	82	5.180	5.185	(0.876)	164352	21.8243	913
\$ 39 2-Fluorobiphenyl	172	7.038	7.040	(0.905)	333681	21.2630	890
\$ 60 2,4,6-Tribromophenol	329	8.623	8.625	(1.109)	85393	48.0450	2010
\$ 81 p-Terphenyl-d14	244	11.087	11.087	(0.899)	417301	34.2935	1430

ION RATIO REPORT

SV REPORT

Data file: s6b1620.d

Report Date: 02/17/2010 07:08

Lab. ID: 246330002

SampleType: SAMPLE

Injection Date: 16-FEB-2010 19:37

Operator: nagl

Instrument: MSD6.i

Sample Info: |246330002|950447|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01

Comment:

Method used: /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1567

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4 Aniline		CAS#: 62-53-3				
66	19897	4.28	4.34	80-120	100	(T)
93	2414	4.32	4.34	216-276	12	(Q)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	22132	5.18	5.02	80-120	100	(T)
42	13401	5.18	5.02	43-103	61	(T)

22 Isophorone		CAS#: 78-59-1				
82	164352	5.18	5.44	80-120	100	(T)
138	5693	5.92	5.44	0- 49	3	(T)

43 Dimethylphthalate		CAS#: 131-11-3				
163	110151	7.78	7.47	80-120	100	(T)
164	608948	7.78	7.47	0- 40	553	(QT)

50 2,4-Dinitrotoluene		CAS#: 121-14-2				
165	80642	7.78	7.98	80-120	100	(T)
89	334	7.78	7.98	45-105	0	(QT)
63	828	7.77	7.98	24- 84	1	(QT)

52 4-Nitrophenol		CAS#: 100-02-7				
139	137	7.79	7.91	80-120	100	(T)
109	1195	7.77	7.91	39- 99	868	(QT)
65	2844	7.77	7.90	63-123	2066	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
53 Fluorene			CAS#: 86-73-7			
166	5668	8.63	8.37	80-120	100	(T)
165	6052	8.62	8.37	62-122	107	(T)
167	1899	8.62	8.37	0- 44	34	(T)

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

Data file : /chem/MSD6.i/s021610.b/s6b1620.d
Lab Smp Id: 246330002 Client Smp ID: RE15-10-8304
Inj Date : 16-FEB-2010 19:37
Operator : nag1 Inst ID: MSD6.i
Smp Info : |246330002|950447|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
Meth Date : 16-Feb-2010 17:39 nat00999 Quant Type: ISTD
Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.sub
Target Version: 3.50
Processing Host: hpclp1

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	20.32590	% moisture

Cpnd Variable

Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	4.650	1696842	40.000
* 67 Phenanthrene-d10	9.380	2636585	40.000
* 91 Chrysene-d12	12.333	2029273	40.000
* 98 Perylene-d12	14.550	1171022	40.000

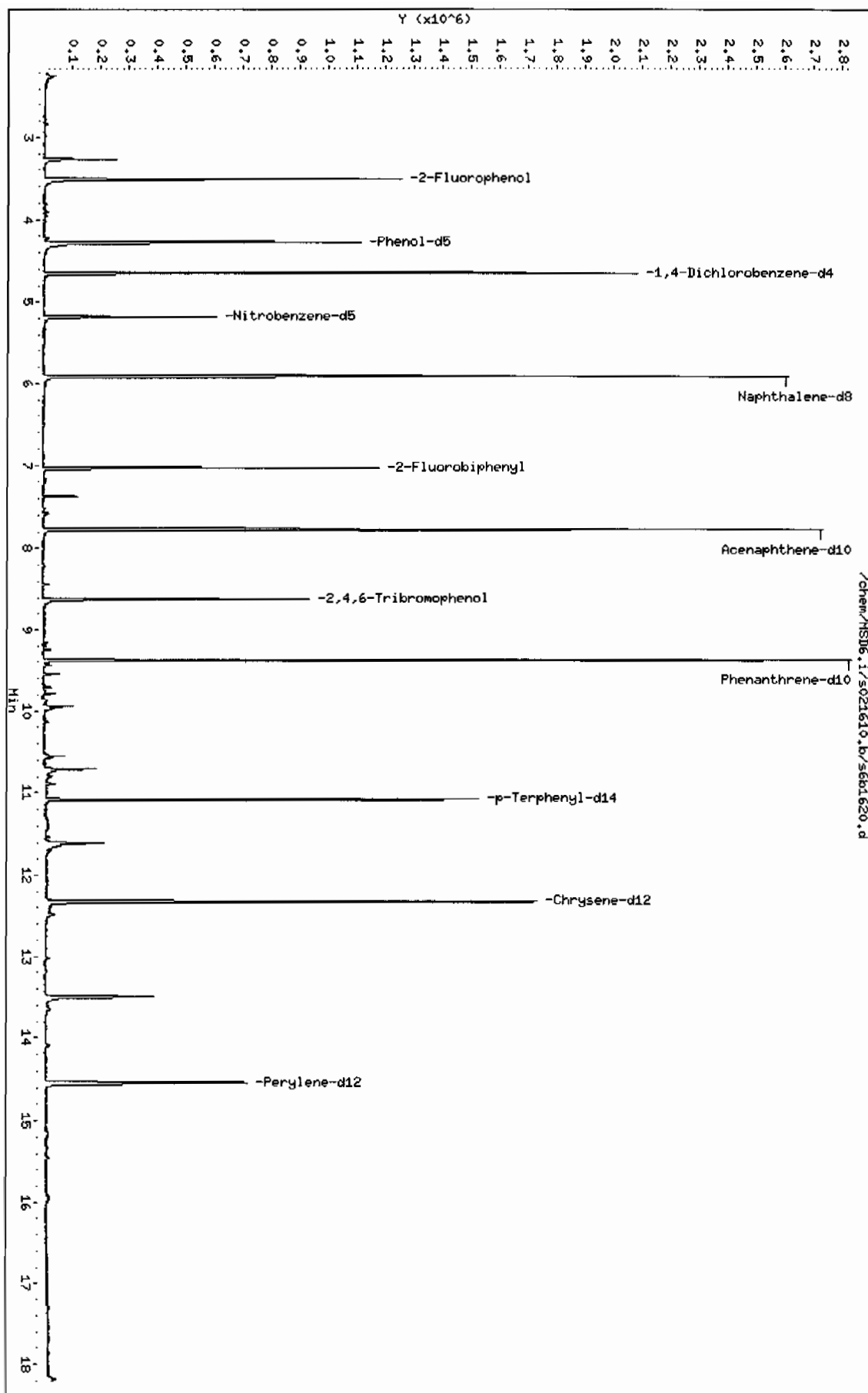
CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
----	----	-----	-----	----	-----	-----	-----

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate					CAS #:		
3.272	227416	5.36091485	224	0		0	10
6-Octadecenoic acid, (Z)-					CAS #: 593-39-5		
10.710	264469	4.01228900	168	93	NIST05.L	113359	67
9-Octadecenamide, (Z)-					CAS #: 301-02-0		
11.609	290820	5.73248596	240	96	NIST05.L	112657	91
13-Docosenamide, (Z)-					CAS #: 112-84-5		
13.497	605745	20.6911619	866	93	NIST05.L	146307	98

Data File: /chem/MSD6.i/s021610.b/s6b1620.d
Date : 16-FEB-2010 19:37
Client ID: RE15-10-8304
Sample Info: 1246330002195044711|SVH11|LNL
Volume Injected (uL): 0.5
Column phase: 3uM DB-SMS

Instrument: MSD6.i
Operator: nag1
Column diameter: 0.20

Page 1



Date : 16-FEB-2010 19:37

Client ID: RE15-10-8304

Instrument: MSD6.i

Sample Info: I2463300021950447111SVM111LANL

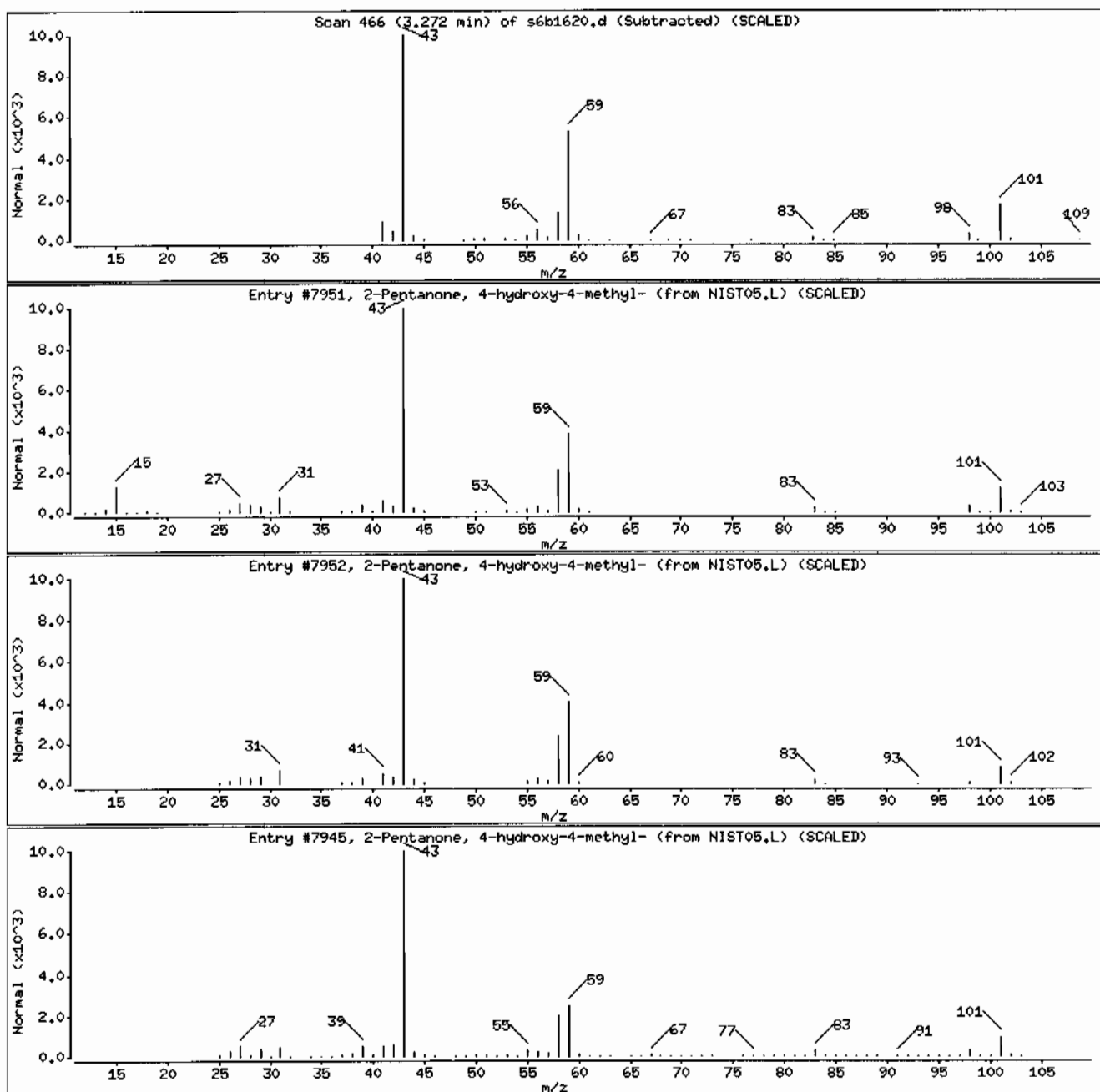
Volume Injected (uL): 0.5

Operator: nag1

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	56	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7945	28	C6H12O2	116



Date: 16-FEB-2010 19:37

Client ID: RE15-10-8304

Instrument: MSD6.i

Sample Info: 1246330002195044711SVH111LANL

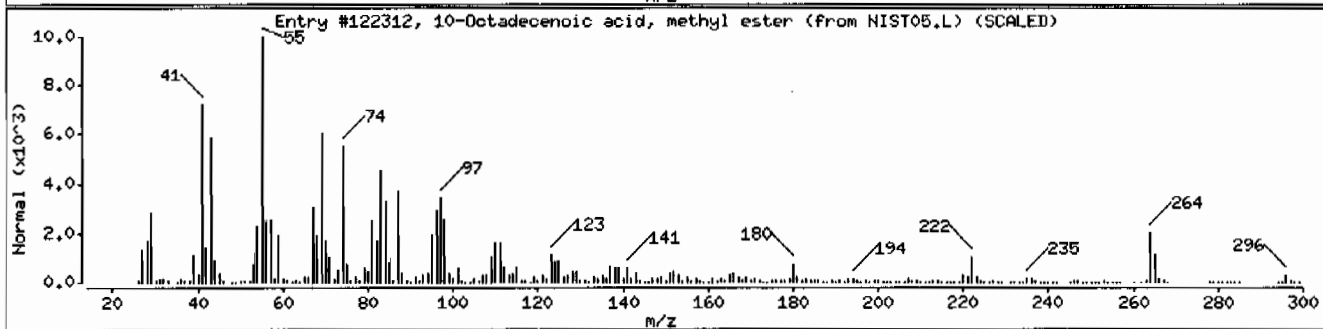
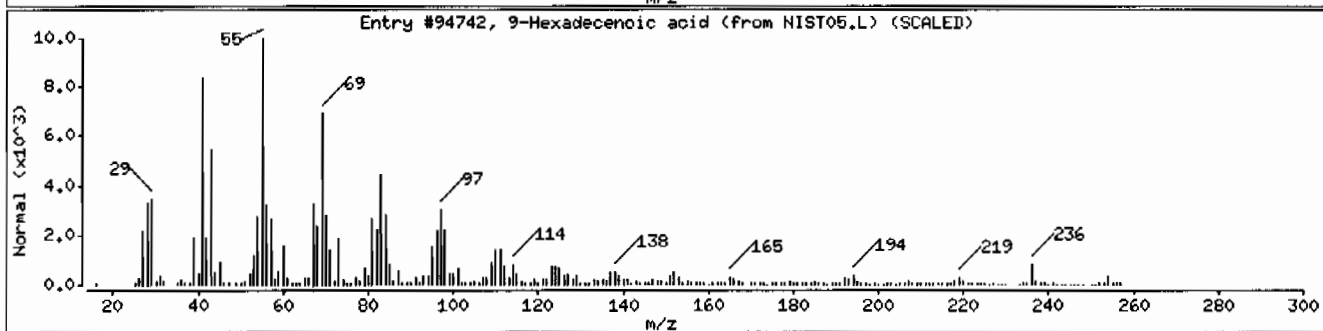
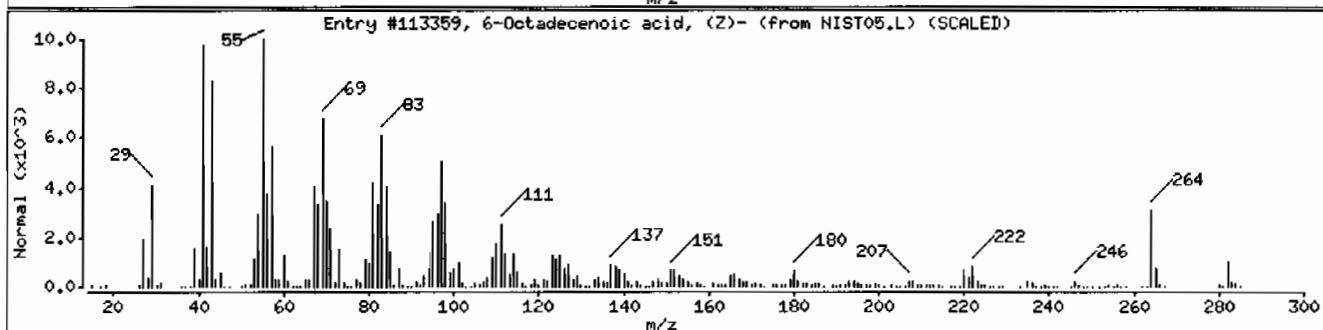
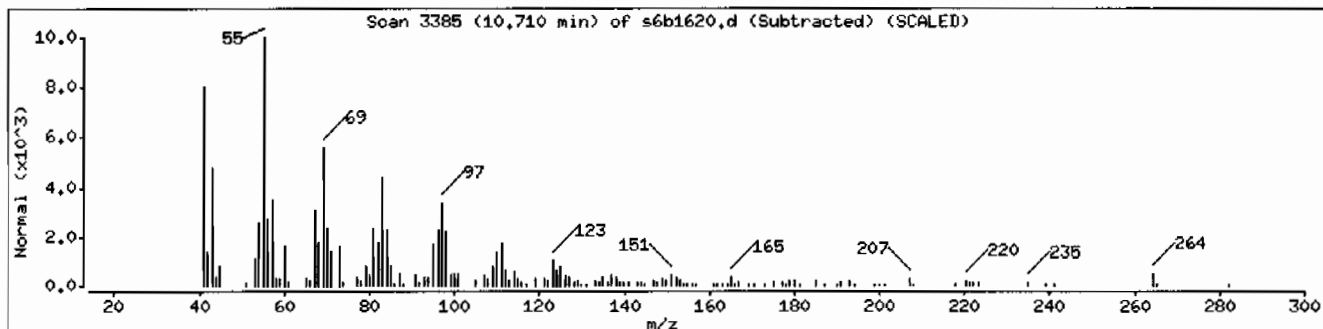
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
6-Octadecenoic acid, (Z)-	593-39-5	NIST05.L	113359	93	C18H34O2	282
9-Hexadecenoic acid	2091-29-4	NIST05.L	94742	90	C16H30O2	254
10-Octadecenoic acid, methyl ester	13481-95-3	NIST05.L	122312	90	C19H36O2	296



Date : 16-FEB-2010 19:37

Client ID: RE15-10-8304

Instrument: MSD6.i

Sample Info: 1246330002195044711SVMI11LANL

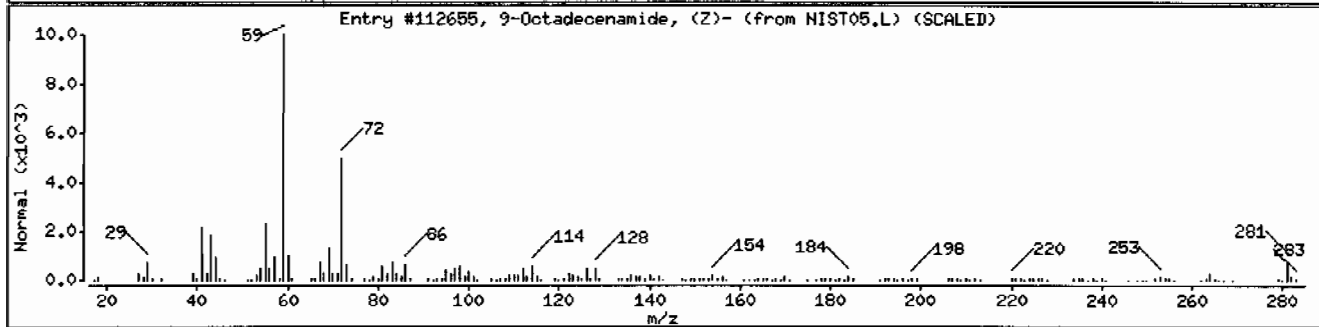
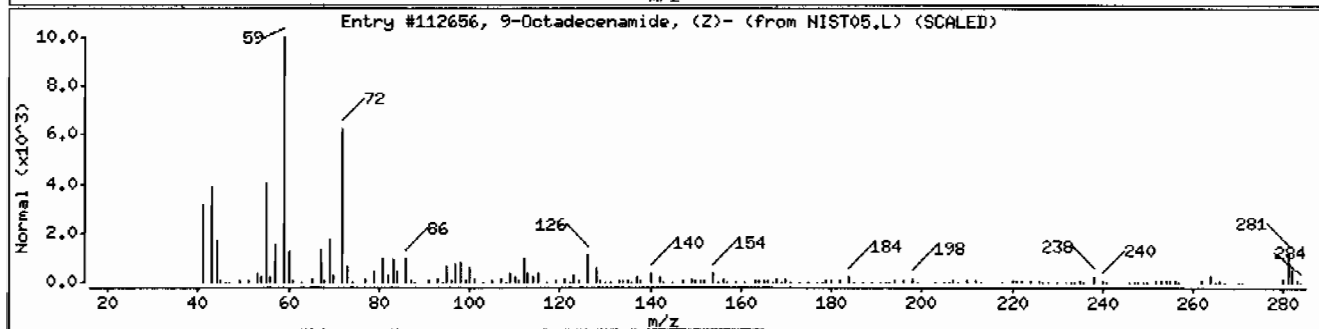
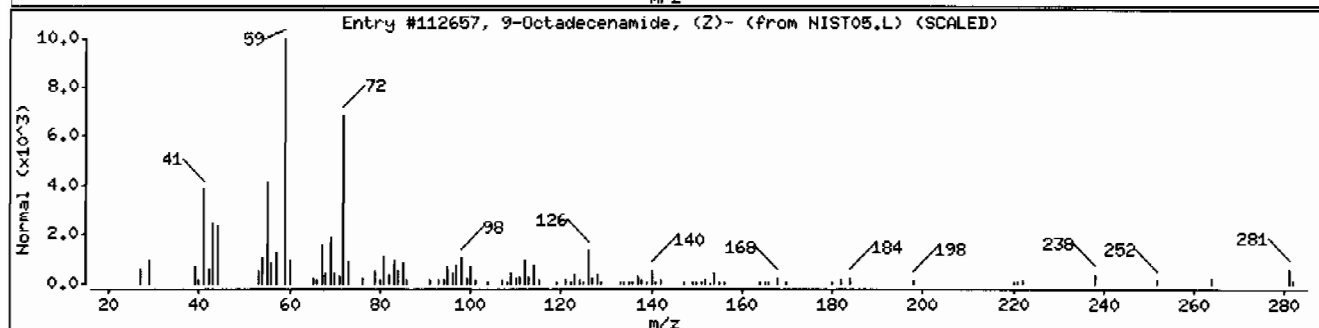
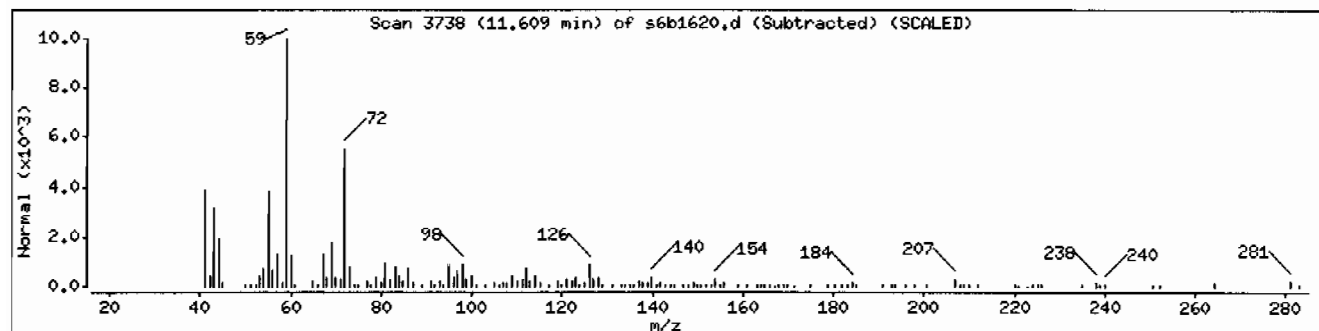
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112657	96	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112656	96	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112655	93	C18H35NO	281



Date: 16-FEB-2010 19:37

Client ID: RE15-10-B304

Instrument: MSD6.i

Sample Info: 12463300021950447111SVH111LANL

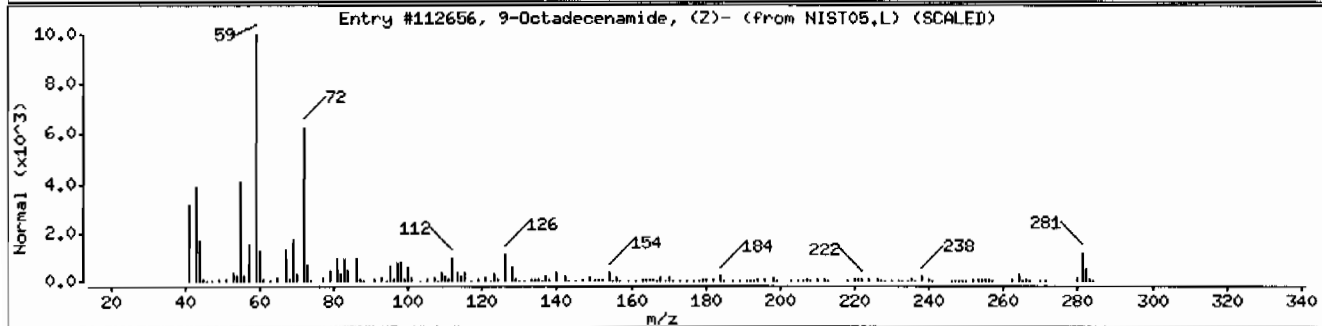
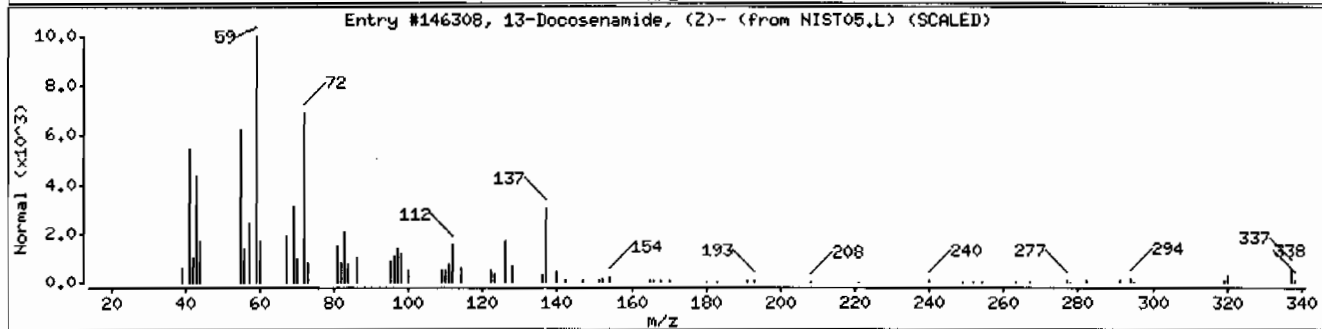
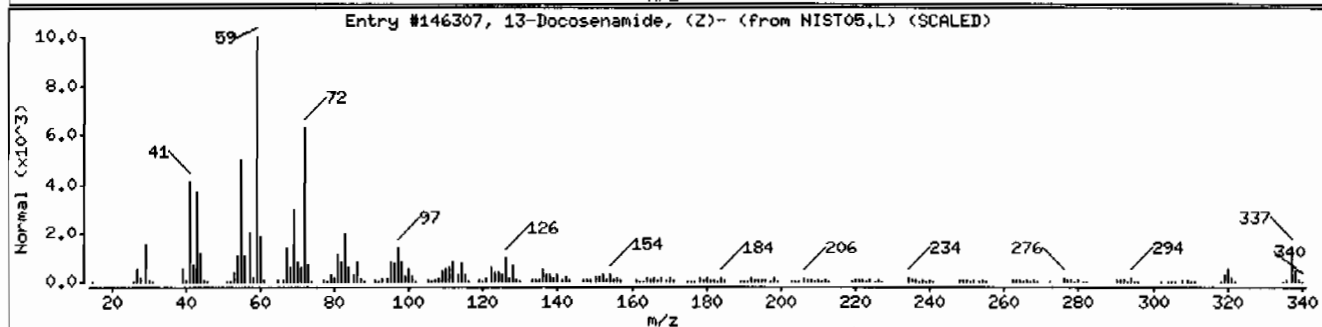
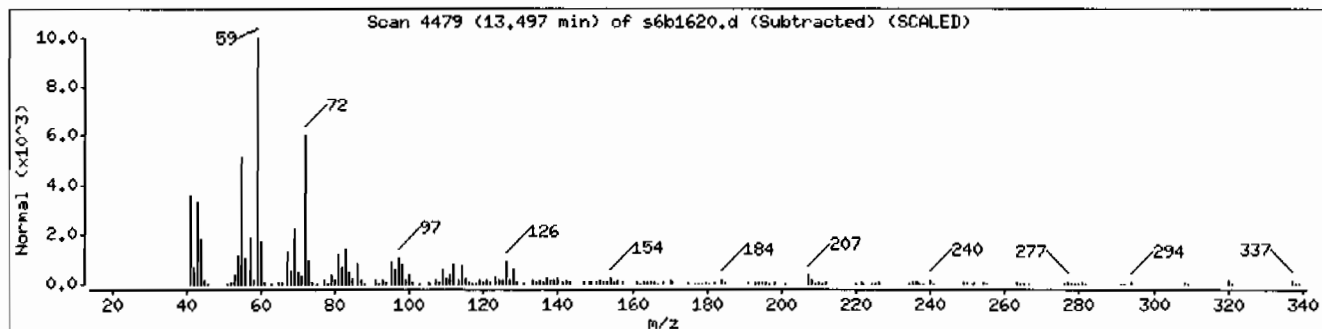
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
13-Docosenamide, (Z)-	112-84-5	NIST05.L	146307	93	C22H43NO	337
13-Docosenamide, (Z)-	112-84-5	NIST05.L	146308	91	C22H43NO	337
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112656	90	C18H35NO	281



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

SDG Number: 10-1567
Lab Sample ID: 246330003

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.01 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 38.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8305
Batch ID: 950447
Run Date: 02/16/2010 20:06
Prep Date: 02/09/2010 11:07
Data File: s6b1621.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	541	ug/kg	108	541
108-95-2	Phenol	U	541	ug/kg	108	541
95-57-8	2-Chlorophenol	U	541	ug/kg	108	541
106-46-7	1,4-Dichlorobenzene	U	541	ug/kg	108	541
621-64-7	N-Nitrosodipropylamine	U	541	ug/kg	108	541
59-50-7	4-Chloro-3-methylphenol	U	541	ug/kg	108	541
83-32-9	Acenaphthene	U	54.1	ug/kg	17.8	54.1
121-14-2	2,4-Dinitrotoluene	U	541	ug/kg	54.1	541
100-02-7	4-Nitrophenol	U	541	ug/kg	178	541
87-86-5	Pentachlorophenol	U	541	ug/kg	135	541
129-00-0	Pyrene	U	54.1	ug/kg	16.2	54.1
110-86-1	Pyridine	U	541	ug/kg	108	541
62-53-3	Aniline	U	541	ug/kg	162	541
111-44-4	bis(2-Chloroethyl) ether	U	541	ug/kg	108	541
541-73-1	1,3-Dichlorobenzene	U	541	ug/kg	108	541
100-51-6	Benzyl alcohol	U	541	ug/kg	162	541
95-50-1	1,2-Dichlorobenzene	U	541	ug/kg	108	541
108-60-1	bis(2-Chloroisopropyl)ether	U	541	ug/kg	108	541
95-48-7	o-Cresol	U	541	ug/kg	108	541
65794-96-9	m,p-Cresols	U	541	ug/kg	162	541
67-72-1	Hexachloroethane	U	541	ug/kg	108	541
98-95-3	Nitrobenzene	U	541	ug/kg	108	541
78-59-1	Isophorone	U	541	ug/kg	108	541
88-75-5	2-Nitrophenol	U	541	ug/kg	108	541
105-67-9	2,4-Dimethylphenol	U	541	ug/kg	189	541
111-91-1	bis(2-Chloroethoxy)methane	U	541	ug/kg	108	541
120-83-2	2,4-Dichlorophenol	U	541	ug/kg	108	541
65-85-0	Benzoic acid	U	1080	ug/kg	270	1080
91-20-3	Naphthalene	U	54.1	ug/kg	16.2	54.1
106-47-8	4-Chloroaniline	U	541	ug/kg	108	541
87-68-3	Hexachlorobutadiene	U	541	ug/kg	108	541
91-57-6	2-Methylnaphthalene	U	54.1	ug/kg	10.8	54.1
77-47-4	Hexachlorocyclopentadiene	U	541	ug/kg	108	541
88-06-2	2,4,6-Trichlorophenol	U	541	ug/kg	108	541
95-95-4	2,4,5-Trichlorophenol	U	541	ug/kg	108	541
91-58-7	2-Chloronaphthalene	U	54.1	ug/kg	17.8	54.1
88-74-4	2-Nitroaniline	U	541	ug/kg	108	541
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	541	ug/kg	108	541

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330003	Date Received: 02/05/2010 09:00	%Moisture: 38.4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8305	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.I	Dilution: 1
Run Date: 02/16/2010 20:06	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Aliquot: 30.01 g	Final Volume: 1 mL
Data File: s6b1621.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	541	ug/kg	108	541
606-20-2	2,6-Dinitrotoluene	U	541	ug/kg	54.1	541
208-96-8	Acenaphthylene	U	54.1	ug/kg	16.2	54.1
51-28-5	2,4-Dinitrophenol	U	1080	ug/kg	205	1080
132-64-9	Dibenzofuran	U	541	ug/kg	108	541
84-66-2	Diethylphthalate	U	541	ug/kg	108	541
86-73-7	Fluorene	U	54.1	ug/kg	16.2	54.1
7005-72-3	4-Chlorophenylphenylether	U	541	ug/kg	108	541
534-52-1	2-Methyl-4,6-dinitrophenol	U	541	ug/kg	108	541
100-01-6	4-Nitroaniline	U	541	ug/kg	162	541
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	541	ug/kg	108	541
122-66-7	Azobenzene	U	541	ug/kg	108	541
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	541	ug/kg	108	541
118-74-1	Hexachlorobenzene	U	541	ug/kg	108	541
85-01-8	Phenanthrene	U	54.1	ug/kg	16.2	54.1
120-12-7	Anthracene	U	54.1	ug/kg	10.8	54.1
84-74-2	Di-n-butylphthalate	U	541	ug/kg	108	541
206-44-0	Fluoranthene	U	54.1	ug/kg	16.2	54.1
85-68-7	Butylbenzylphthalate	U	541	ug/kg	108	541
56-55-3	Benzo(a)anthracene	U	54.1	ug/kg	16.2	54.1
91-94-1	3,3'-Dichlorobenzidine	U	541	ug/kg	162	541
218-01-9	Chrysene	U	54.1	ug/kg	16.2	54.1
117-81-7	bis(2-Ethylhexyl)phthalate	U	541	ug/kg	108	541
117-84-0	Di-n-octylphthalate	U	541	ug/kg	108	541
205-99-2	Benzo(b)fluoranthene	U	54.1	ug/kg	16.2	54.1
207-08-9	Benzo(k)fluoranthene	U	54.1	ug/kg	16.2	54.1
50-32-8	Benzo(a)pyrene	U	54.1	ug/kg	16.2	54.1
193-39-5	Indeno(1,2,3-cd)pyrene	U	54.1	ug/kg	16.2	54.1
53-70-3	Dibenzo(a,h)anthracene	U	54.1	ug/kg	16.2	54.1
191-24-2	Benzo(ghi)perylene	U	54.1	ug/kg	16.2	54.1
120-82-1	1,2,4-Trichlorobenzene	U	541	ug/kg	108	541

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	297	ug/kg		JA
	Unknown	11.2	278	ug/kg		J

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

SDG Number: 10-1567
Lab Sample ID: 246330003

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.J
Analyst: NAG1
Aliquot: 30.01 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 38.4
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
---------	----------	-----------	--------	-------	---------	---------

Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
514-95-4	1,5,5-Trimethyl-6-methylene-cyclohexene	11.41	270	ug/kg	87	NJ
506-30-9	Eicosanoic acid	11.59	402	ug/kg	95	NJ
1235-74-1	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	11.63	313	ug/kg	95	NJ
	Unknown	11.97	784	ug/kg		J
1740-19-8	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	12.09	1560	ug/kg	94	NJ
	Unknown	13.16	946	ug/kg		J
	Unknown	13.2	409	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	13.51	498	ug/kg	94	NJ
	Unknown	15.46	263	ug/kg		J

Data File: /chem/MSD6.i/s021610.b/s6b1621.d
Report Date: 17-Feb-2010 07:34

Page 1

GEL Laboratories LLC

Data file : /chem/MSD6.i/s021610.b/s6b1621.d
Lab Smp Id: 246330003 Client Smp ID: RE15-10-8305
Inj Date : 16-FEB-2010 20:06
Operator : nagl Inst ID: MSD6.i
Smp Info : |246330003|950447|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
Meth Date : 16-Feb-2010 17:39 nat00999 Quant Type: ISTD
Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.sub
Target Version: 3.50
Processing Host: hpc1p1

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	30.01000	weight of sample
M	38.37490	% 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	4.648	4.650 (1.000)	244704	40.0000	
* 29 Naphthalene-d8	136	5.914	5.917 (1.000)	936411	40.0000	
* 46 Acenaphthene-d10	164	7.774	7.779 (1.000)	537369	40.0000	
* 67 Phenanthrene-d10	188	9.379	9.382 (1.000)	930509	40.0000	
* 91 Chrysene-d12	240	12.335	12.338 (1.000)	744780	40.0000	
* 98 Perylene-d12	264	14.560	14.557 (1.000)	478126	40.0000	
\$ 3 2-Fluorophenol	112	3.511	3.496 (0.755)	291934	47.6398	2580
\$ 5 Phenol-d5	99	4.278	4.273 (0.920)	368296	47.6186	2570
\$ 20 Nitrobenzene-d5	82	5.180	5.185 (0.876)	160834	24.2800	1310
\$ 39 2-Fluorobiphenyl	172	7.038	7.040 (0.905)	318231	22.9796	1240
\$ 60 2,4,6-Tribromophenol	329	8.623	8.625 (1.109)	63493	40.4818	2190
\$ 81 p-Terphenyl-d14	244	11.084	11.087 (0.899)	315442	26.2631	1420

ION RATIO REPORT

SV REPORT

Data file: s6b1621.d

Report Date: 02/17/2010 07:09

Lab. ID: 246330003

SampleType: SAMPLE

Injection Date: 16-FEB-2010 20:06

Operator: nagl

Instrument: MSD6.i

Sample Info: |246330003|950447|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01

Comment:

Method used: /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1567

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline	CAS#: 62-53-3				
66	18534	4.28	4.34	80-120	100	(T)
93	7983	4.32	4.34	216-276	43	(Q)

17	N-Nitrosodipropylamine	CAS#: 621-64-7				
70	22463	5.18	5.02	80-120	100	(T)
42	12575	5.18	5.02	43-103	56	(T)

22	Isophorone	CAS#: 78-59-1				
82	160834	5.18	5.44	80-120	100	(T)
138	184	5.87	5.44	0- 49	0	(T)

40	2-Chloronaphthalene	CAS#: 91-58-7				
162	4352	7.38	7.18	80-120	100	(T)
164	211	7.38	7.18	3- 63	5	(T)
127	242	7.38	7.18	9- 69	6	(QT)

43	Dimethylphthalate	CAS#: 131-11-3				
163	95919	7.78	7.47	80-120	100	(T)
164	537369	7.77	7.47	0- 40	560	(QT)

45	Acenaphthylene	CAS#: 208-96-8				
152	16947	7.78	7.63	80-120	100	(T)
151	4698	7.78	7.63	0- 50	28	(T)
153	18228	7.78	7.63	0- 43	108	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
47 Acenaphthene			CAS#:	83-32-9		
154	16733	7.78	7.82	80-120	100	()
153	18228	7.78	7.81	77-137	109	()
152	16947	7.78	7.82	21- 81	101	(Q)

48 2,4-Dinitrophenol			CAS#:	51-28-5		
184	156	8.29	7.85	80-120	100	(T)
154	104	8.06	7.85	19- 79	66	(T)

50 2,4-Dinitrotoluene			CAS#:	121-14-2		
165	70787	7.77	7.98	80-120	100	(T)
89	1741	7.78	7.98	45-105	2	(QT)
63	3427	7.78	7.98	24- 84	5	(QT)

52 4-Nitrophenol			CAS#:	100-02-7		
139	534	8.01	7.91	80-120	100	(T)
109	333	8.00	7.91	39- 99	62	(T)
65	469	8.00	7.90	63-123	88	(T)

53 Fluorene			CAS#:	86-73-7		
166	4248	8.62	8.37	80-120	100	(T)
165	4488	8.62	8.37	62-122	106	(T)
167	1501	8.63	8.37	0- 44	35	(T)

55 2-Methyl-4,6-dinitrophenol			CAS#:	534-52-1		
198	374	8.75	8.42	80-120	100	(T)
105	295	8.77	8.42	12- 72	79	(QT)
51	205	8.75	8.42	27- 87	55	(T)

56 p-Nitroaniline			CAS#:	100-01-6		
138	170	7.91	8.39	80-120	100	(T)
108	182	8.17	8.39	48-108	107	(T)
92	293	7.90	8.39	17- 77	173	(QT)

99 Indeno(1,2,3-cd)pyrene			CAS#:	193-39-5		
276	157	16.50	16.48	80-120	100	()
138	126	16.09	16.48	4- 64	80	(QT)

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

Data file : /chem/MSD6.i/s021610.b/s6b1621.d
 Lab Smp Id: 246330003 Client Smp ID: RE15-10-8305
 Inj Date : 16-FEB-2010 20:06
 Operator : nagl Inst ID: MSD6.i
 Smp Info : |246330003|950447|1|SVM|1|LANL
 Misc Info : |MSD8270 S|WBN100205-01
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
 Meth Date : 16-Feb-2010 17:39 nat00999 Quant Type: ISTD
 Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1567.sub
 Target Version: 3.50
 Processing Host: hpc1p1

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	30.01000	weight of sample
M	38.37490	% moisture

Cpnd Variable

Local Compound Variable

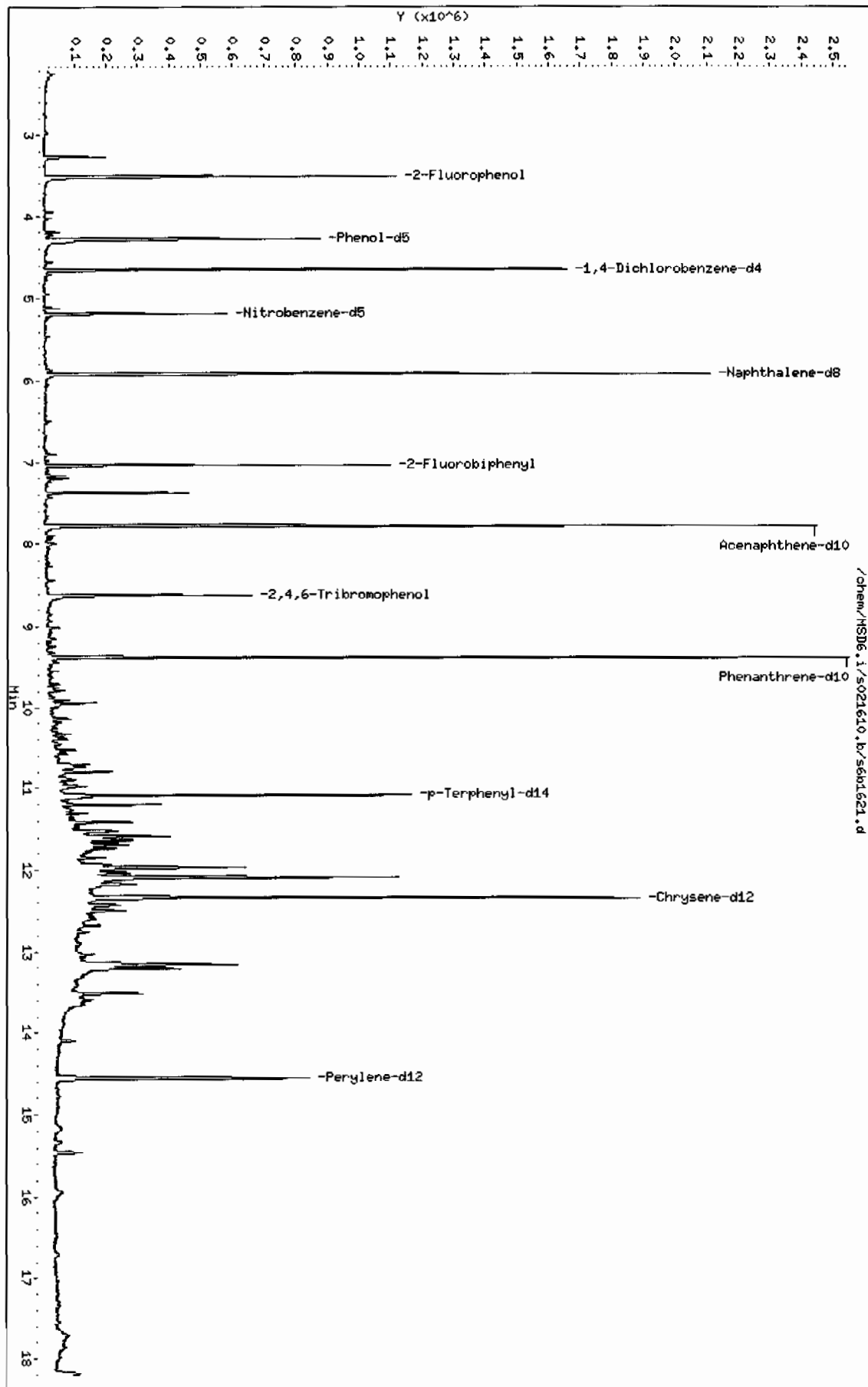
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	4.648	1479037	40.000
* 91 Chrysene-d12	12.335	2114089	40.000
* 98 Perylene-d12	14.560	1350912	40.000

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 #:			
3.269	202774	5.48393882	296	0		0	10
Unknown				CAS #:			
11.204	271807	5.14277470	278	0		0	91
1,5,5-Trimethyl-6-methylene-cyclohexene				CAS #: 514-95-4			
11.413	263981	4.99469305	270	87	NIST05.L	15292	91
Eicosanoic acid				CAS #: 506-30-9			
11.586	393088	7.43749599	402	95	NIST05.L	132302	91
1-Phenanthrenecarboxylic acid, 1,2,3,4,4				CAS #: 1235-74-1			
11.632	305910	5.78801555	313	95	NIST05.L	133618	91
Unknown				CAS #:			
11.966	766679	14.5060811	784	0		0	91
1-Phenanthrenecarboxylic acid, 1,2,3,4,4				CAS #: 1740-19-8			
12.091	1523710	28.8296167	1560	94	NIST05.L	125034	91
Unknown				CAS #:			
13.158	925082	17.5031654	946	0		0	91
Unknown				CAS #:			
13.204	400057	7.56934825	409	0		0	91
9-Octadecenamide, (Z)-				CAS #: 301-02-0			
13.510	311173	9.21371045	498	94	NIST05.L	112656	98
Unknown				CAS #:			
15.462	164307	4.86508065	263	0		0	98

Data File: /chem/MSD6.i/s021610.b/s6b1621.d
Date: 16-FEB-2010 20:06
Client ID: RE15-10-8305
Sample Info: 1246330003195047111SVH11.LANL
Volume Injected (uL): 0.5
Column phase: JMW DB-SMS

Instrument: MSD6.i
Operator: nag1
Column diameter: 0.20



Date : 16-FEB-2010 20:06

Client ID: RE15-10-8305

Instrument: MSD6.i

Sample Info: I246330003195044711ISVH111LANL

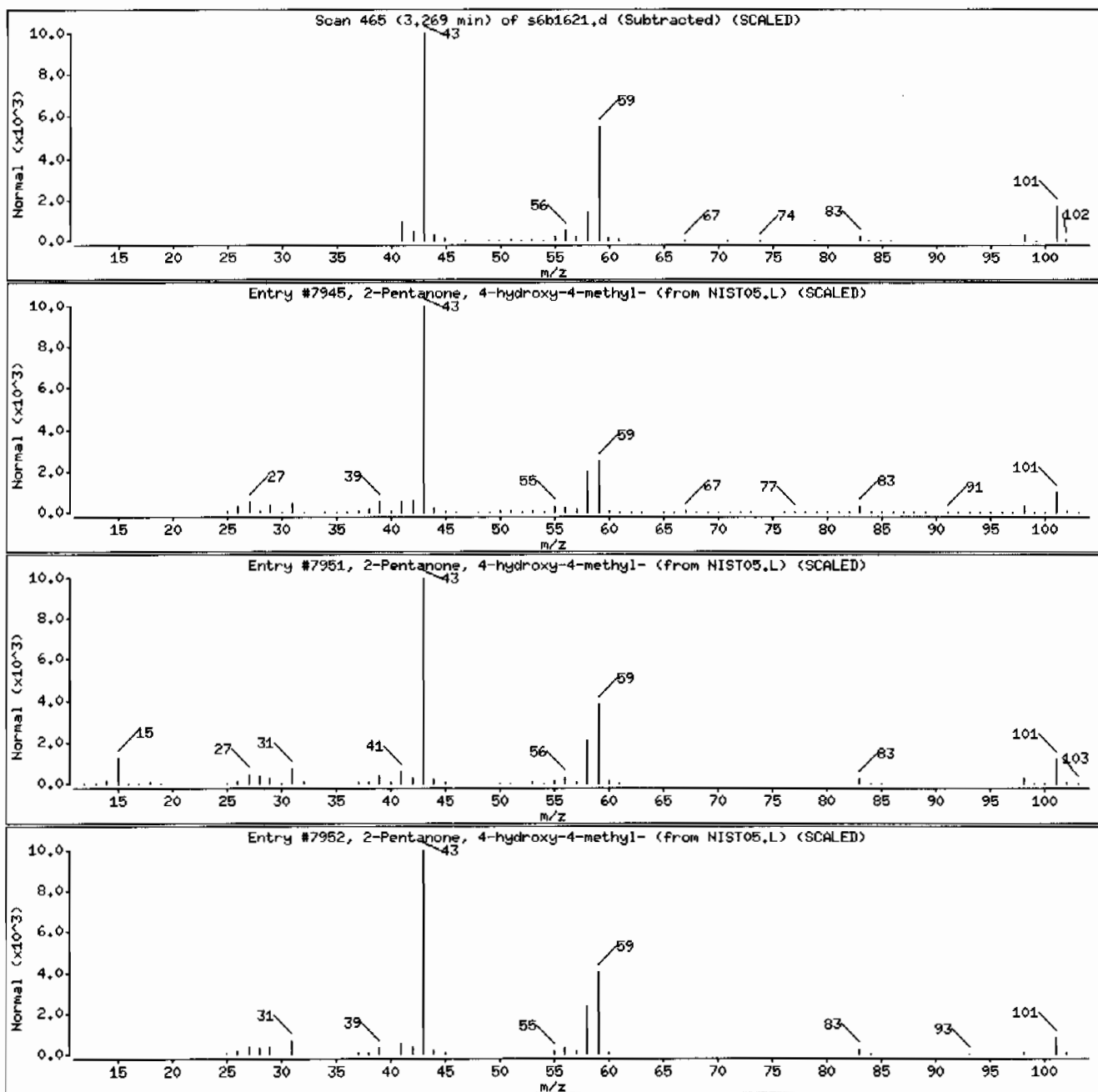
Volume Injected (uL): 0.5

Operator: nag1

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	53	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	50	C6H12O2	116



Date: 16-FEB-2010 20:06

Client ID: RE15-10-8305

Instrument: MSD6.i

Sample Info: 1246330003195044711ISVH11LANL

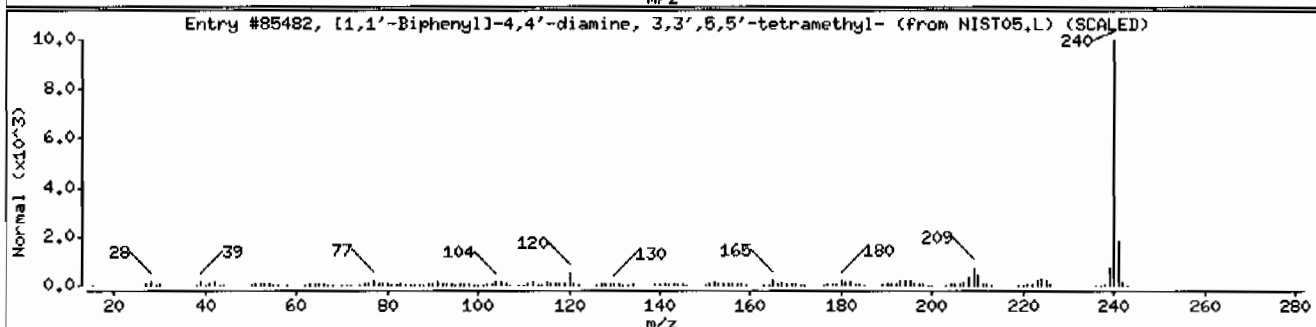
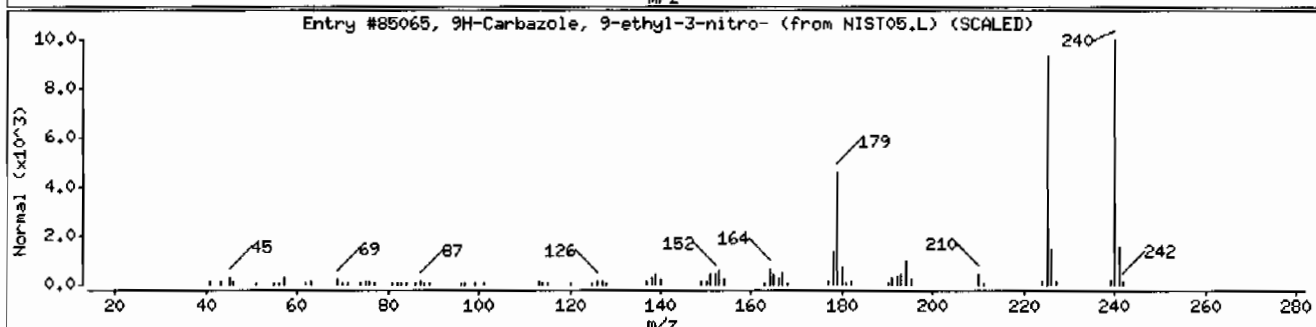
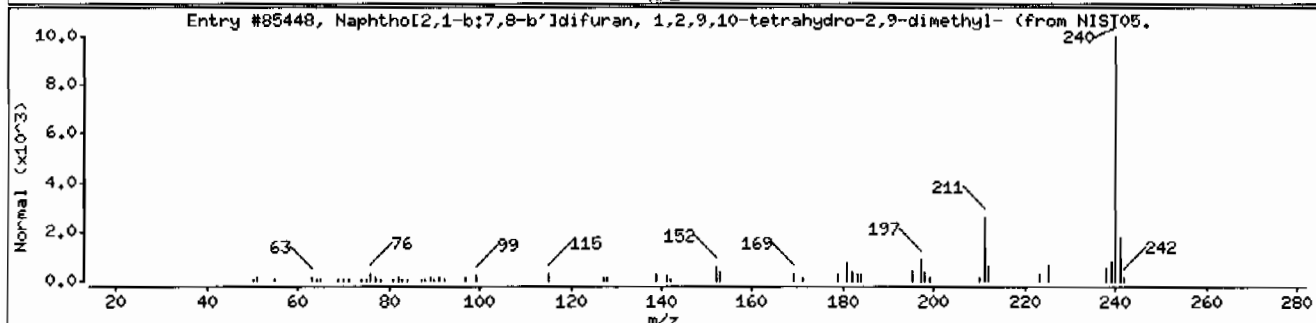
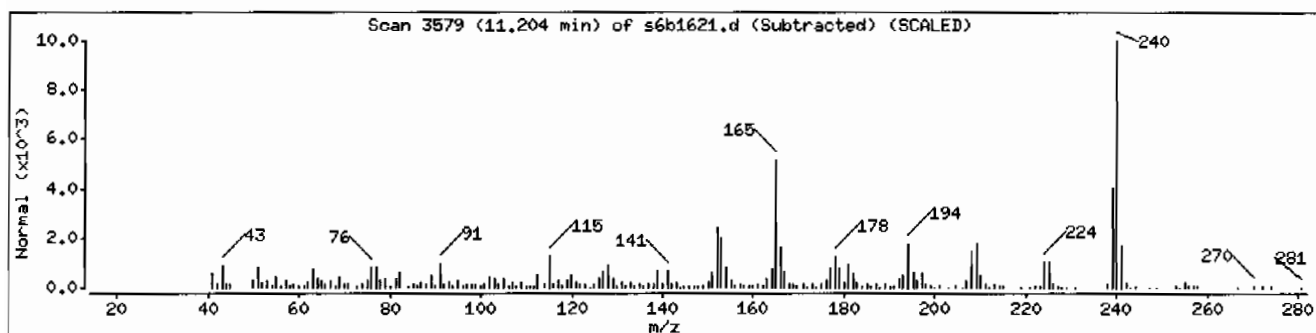
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Naphtho[2,1-b:7,8-b']difuran, 1,2,9,10-t	68873-21-2	NIST05.L	85448	55	C16H16O2	240
9H-Carbazole, 9-ethyl-3-nitro-	86-20-4	NIST05.L	85065	53	C14H12N2O2	240
[1,1'-Biphenyl]-4,4'-diamine, 3,3',5,5'-	54827-17-7	NIST05.L	85482	45	C16H20N2	240



Date: 16-FEB-2010 20:06

Client ID: RE15-10-8305

Instrument: MSD6.i

Sample Info: 12463300031950447111SVH111LANL

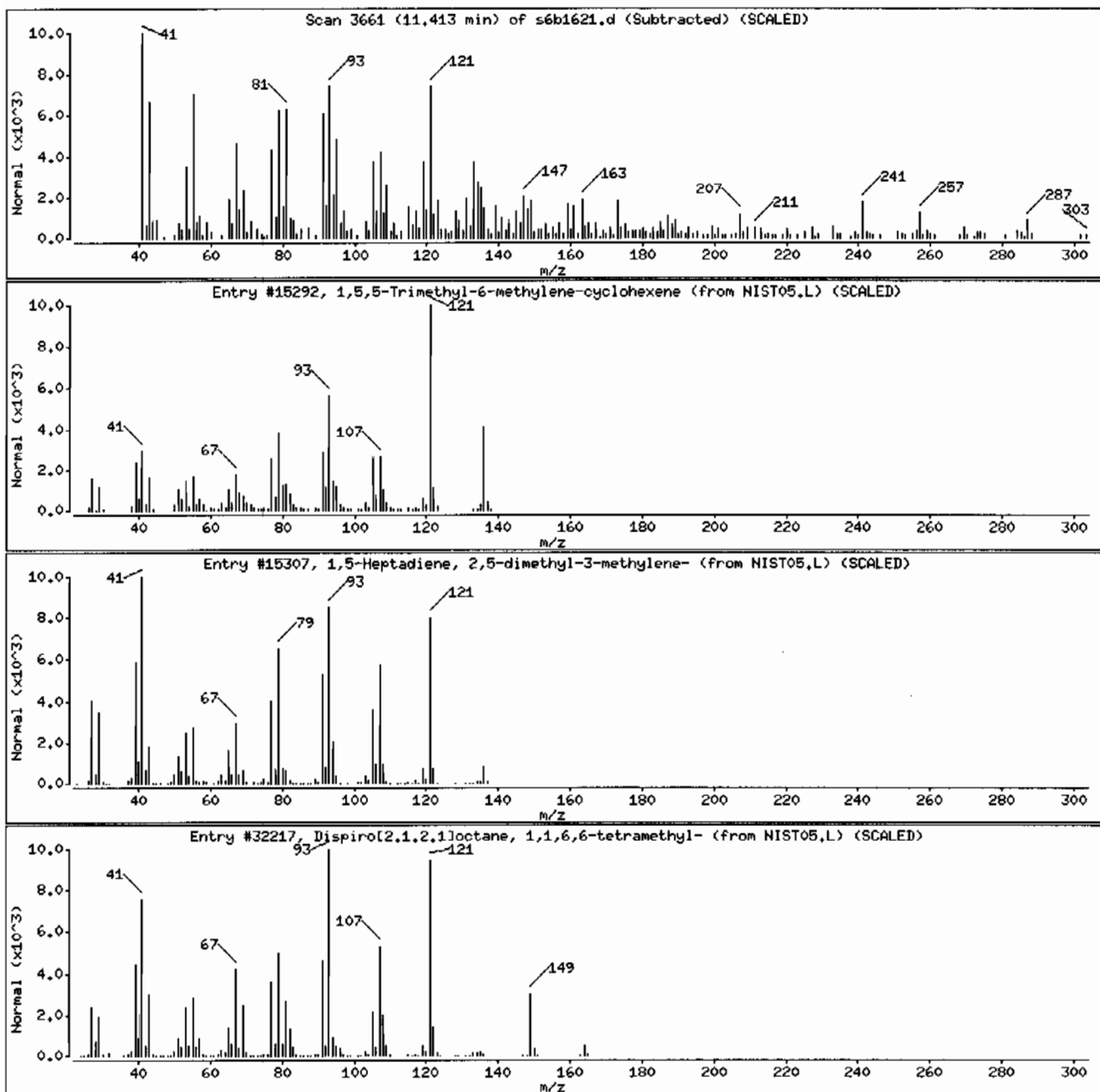
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,5,5-Trimethyl-6-methylene-cyclohexene	514-95-4	NIST05.L	15292	87	C10H16	136
1,5-Heptadiene, 2,5-dimethyl-3-methylene	74663-83-5	NIST05.L	15307	60	C10H16	136
Dispiro[2.1.2]octane, 1,1,6,6-tetramet	1000150-39-2	NIST05.L	32217	49	C12H20	164



Date: 16-FEB-2010 20:06

Client ID: RE15-10-8305

Instrument: MSD6.i

Sample Info: 1246330003195044711ISVM11ILANL

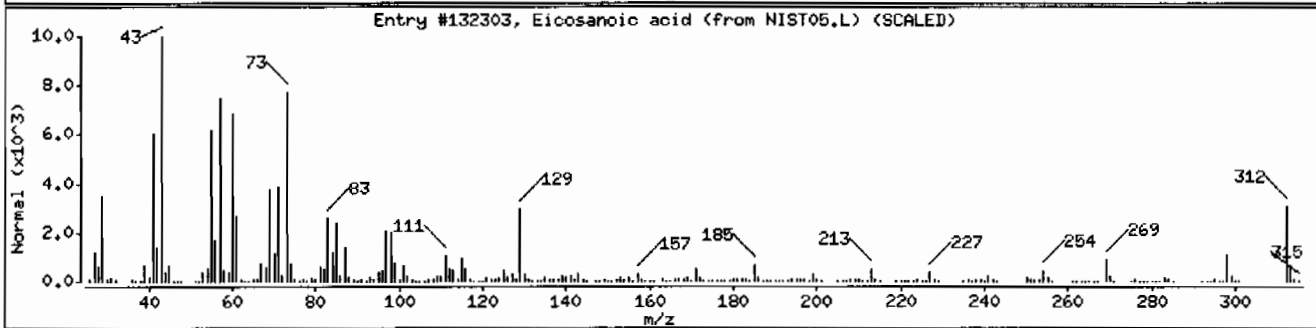
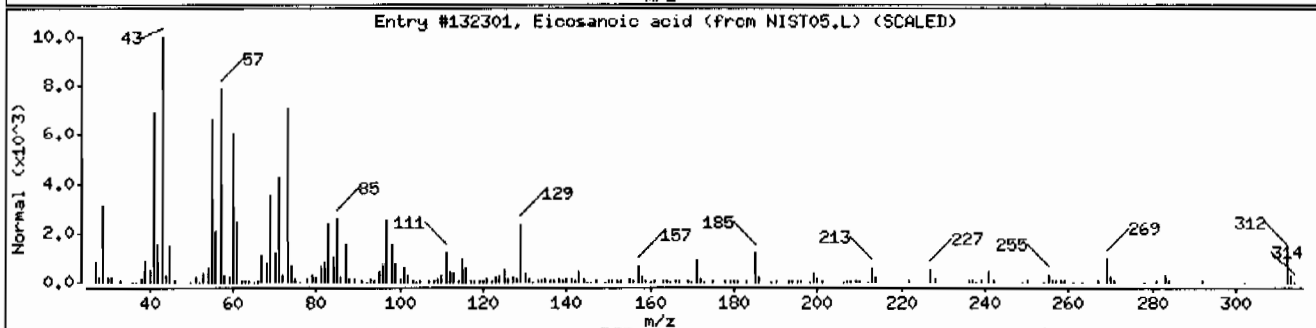
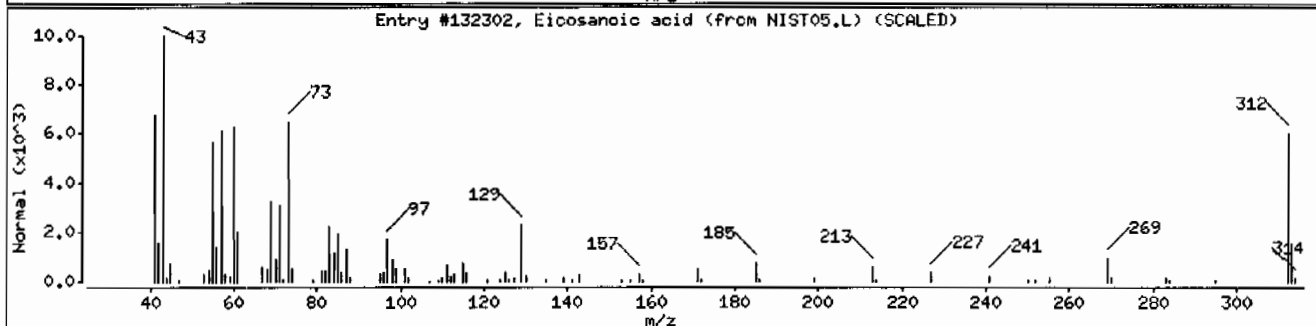
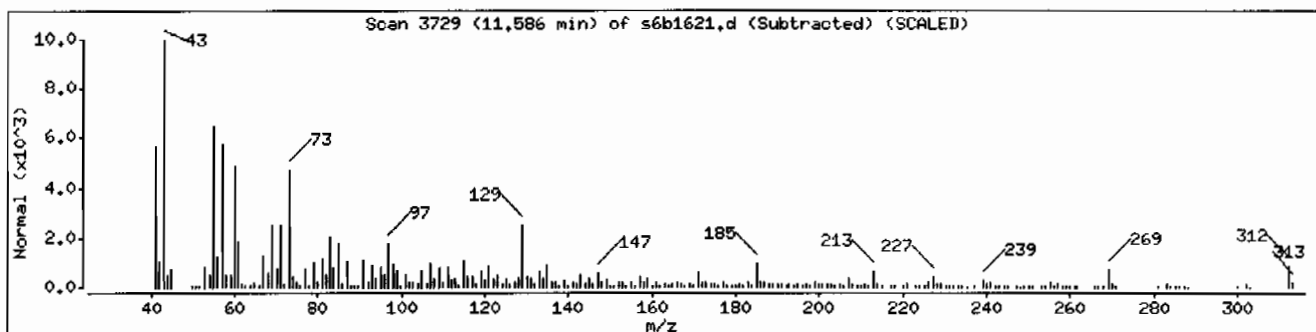
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Eicosanoic acid	506-30-9	NIST05.L	132302	95	C20H40O2	312
Eicosanoic acid	506-30-9	NIST05.L	132301	94	C20H40O2	312
Eicosanoic acid	506-30-9	NIST05.L	132303	86	C20H40O2	312



Date: 16-FEB-2010 20:06

Client ID: RE15-10-8305

Instrument: HSD6.i

Sample Info: 1246330003195044711SVMI1ILANL

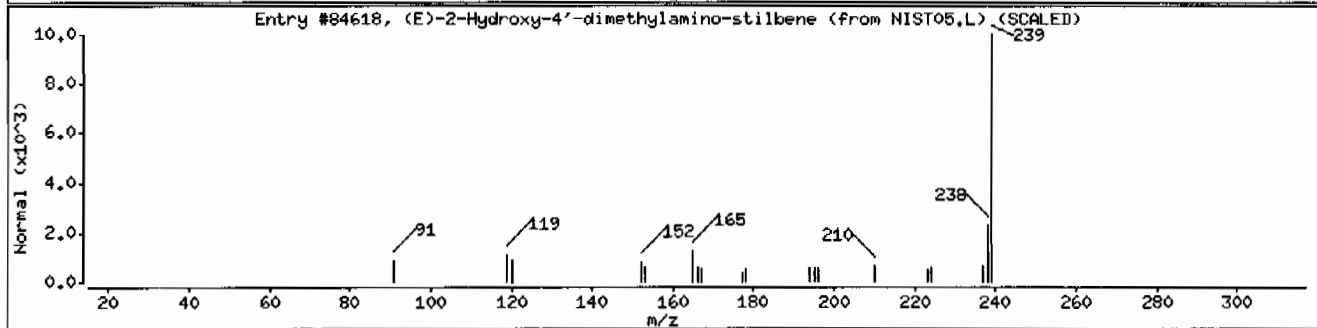
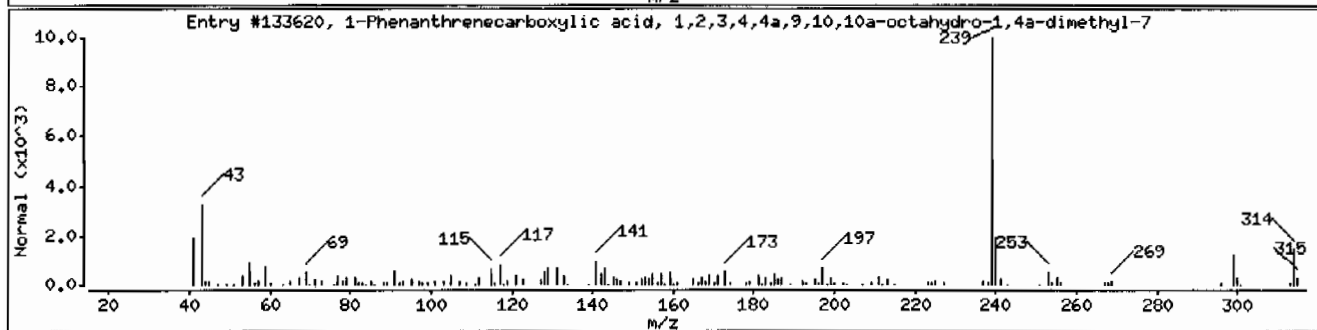
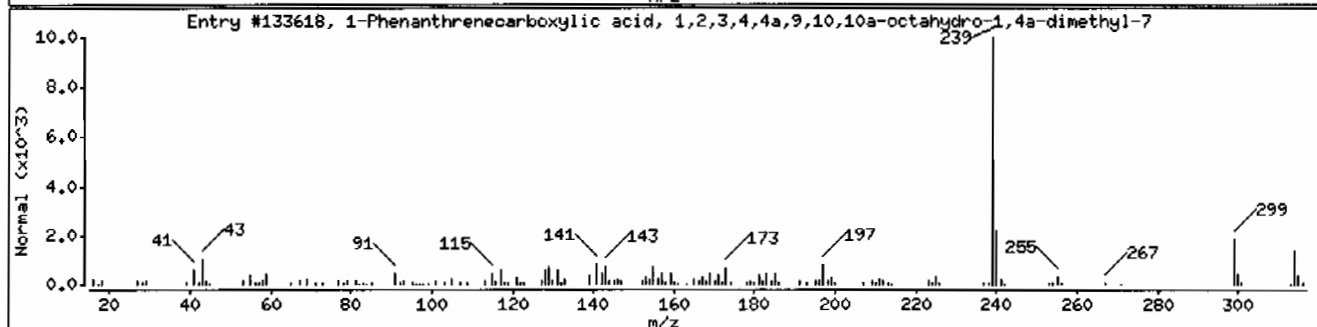
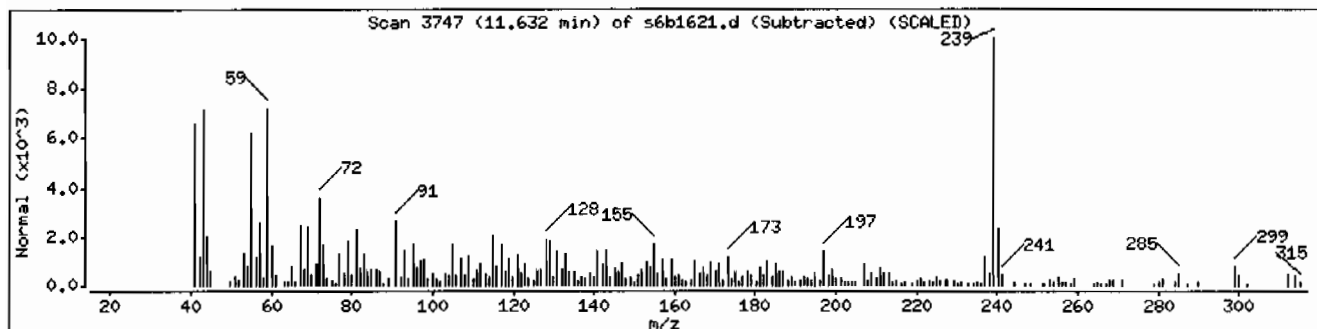
Volume Injected (uL): 0.5

Operator: nag1

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	1235-74-1	NIST05.L	133618	95	C21H30O2	314
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1235-74-1	NIST05.L	133620	87	C21H30O2	314
(E)-2-Hydroxy-4'-dimethylamino-stilbene	110983-42-1	NIST05.L	84618	52	C16H17NO	239



Date: 16-FEB-2010 20:06

Client ID: RE15-10-8305

Instrument: MSD6.i

Sample Info: 1246330003195044711SVMI11LANL

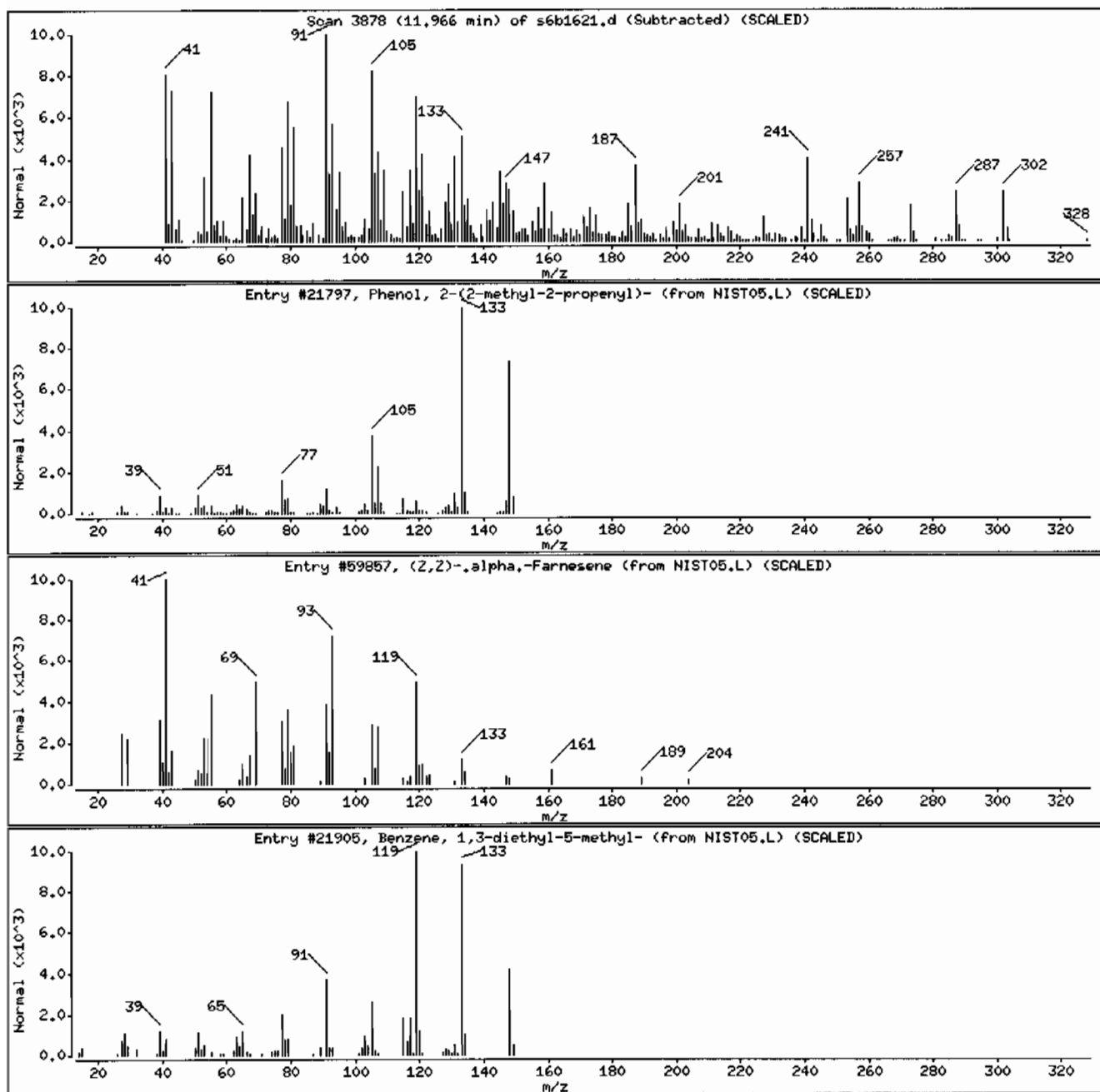
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Phenol, 2-(2-methyl-2-propenyl)-	20944-88-1	NIST05.L	21797	18	C10H12O	148
(Z,Z)-.alpha.-Farnesene	1000293-03-1	NIST05.L	59857	14	C15H24	204
Benzene, 1,3-diethyl-5-methyl-	2050-24-0	NIST05.L	21905	11	C11H16	148



Date: 16-FEB-2010 20:06

Client ID: RE15-10-8305

Instrument: MSD6.i

Sample Info: 1246330003195044711SVMI11LANL

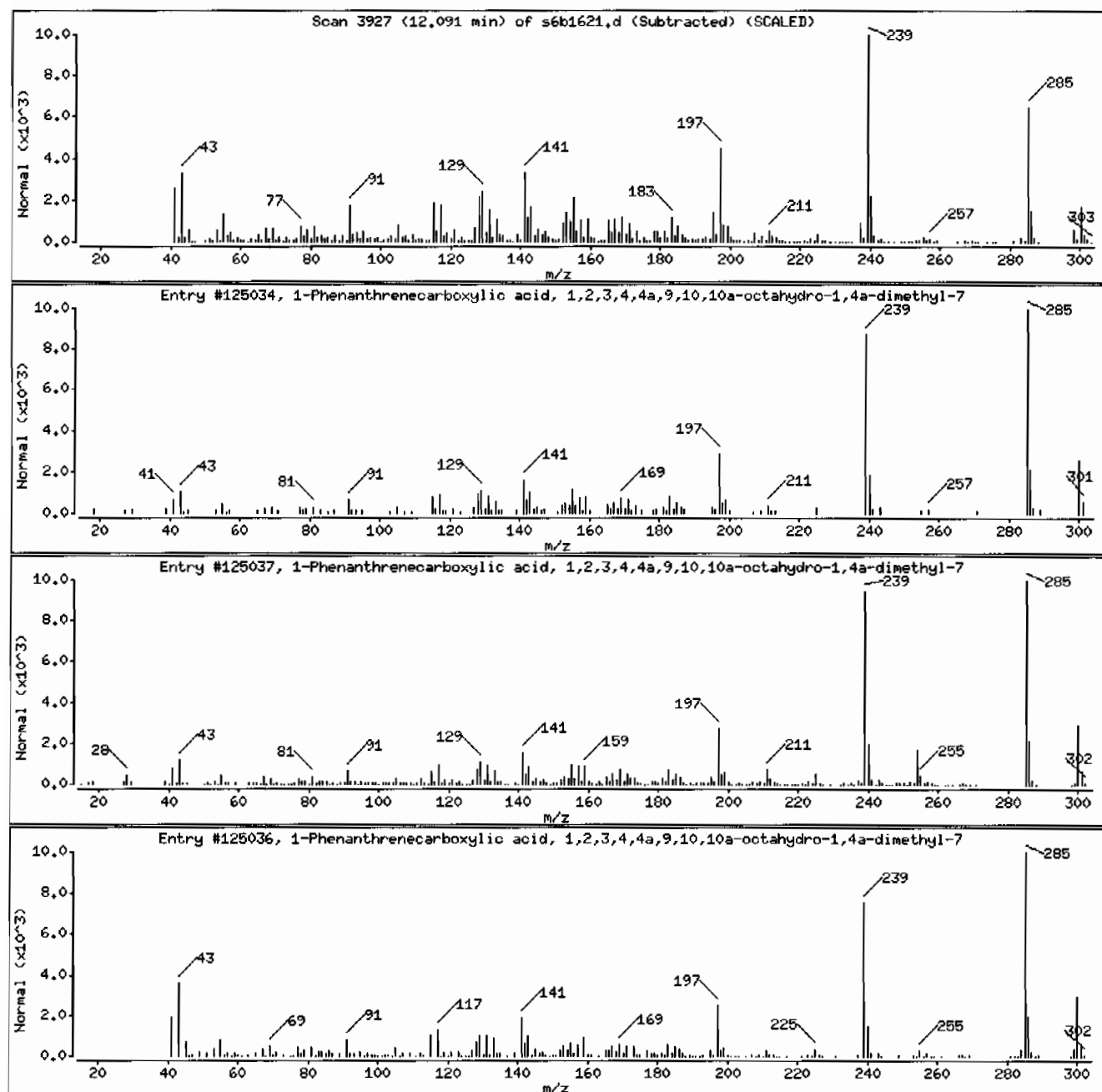
Volume Injected (uL): 0.5

Operator: nag1

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	94	C20H28O2	300
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1740-19-8	NIST05.L	125037	93	C20H28O2	300
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1740-19-8	NIST05.L	125036	86	C20H28O2	300



Date: 16-FEB-2010 20:06

Client ID: RE15-10-8305

Instrument: HSD6.i

Sample Info: 12463300031950447111SVM111LANL

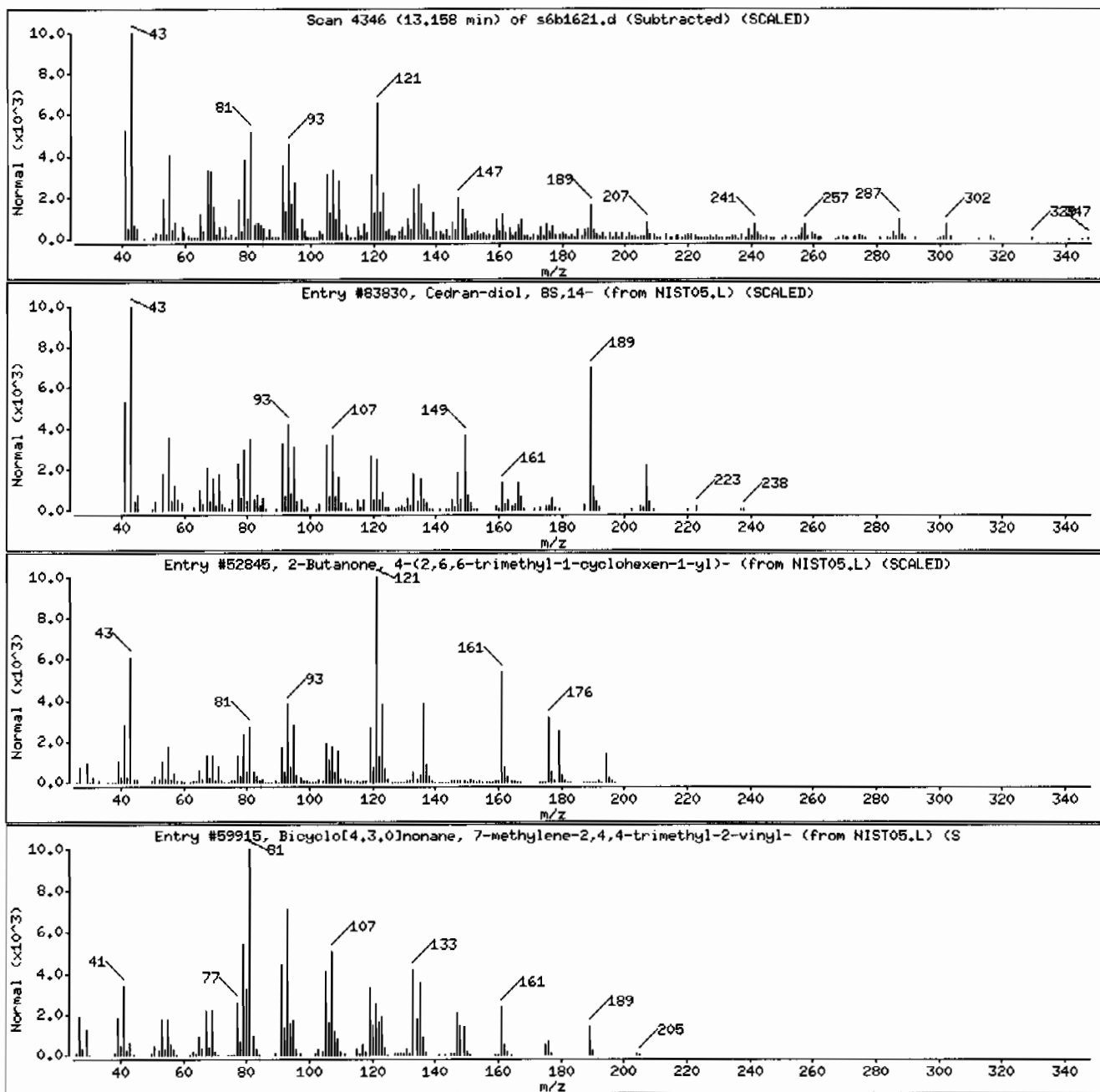
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cedran-diol, 8S,14-	62600-05-9	NIST05.L	83830	50	C15H26O2	238
2-Butanone, 4-(2,6,6-trimethyl-1-cyclohe	17283-81-7	NIST05.L	52845	50	C13H22O	194
Bicyclo[4.3.0]nonane, 7-methylene-2,4,4-	1000156-11-9	NIST05.L	59915	46	C15H24	204



Date : 16-FEB-2010 20:06

Client ID: RE15-10-8305

Instrument: MSD6.i

Sample Info: I2463300031950447111SVH111LANL

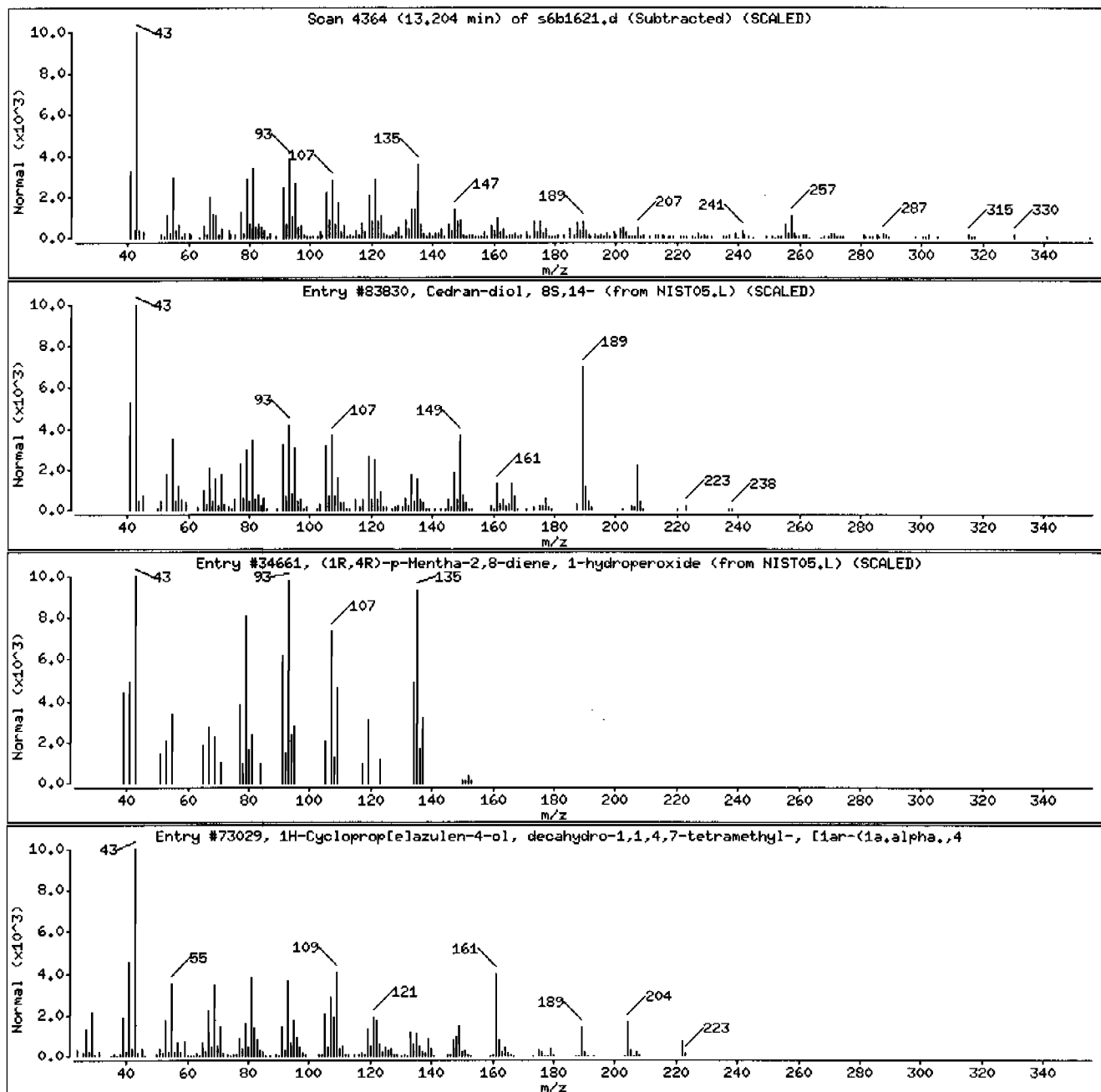
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cedran-diol, 8S,14-	62600-05-9	NIST05.L	83830	64	C15H26O2	238
(1R,4R)-p-Mentha-2,8-diene, 1-hydroperox	1000292-74-0	NIST05.L	34661	49	C10H16O2	168
1H-Cycloprop[elazulen-4-ol, decahydro-1,	552-02-3	NIST05.L	73029	38	C15H26O	222



Date: 16-FEB-2010 20:06

Client ID: RE15-10-8305

Instrument: HSD6.i

Sample Info: 1246330003195044711SVH111LANL

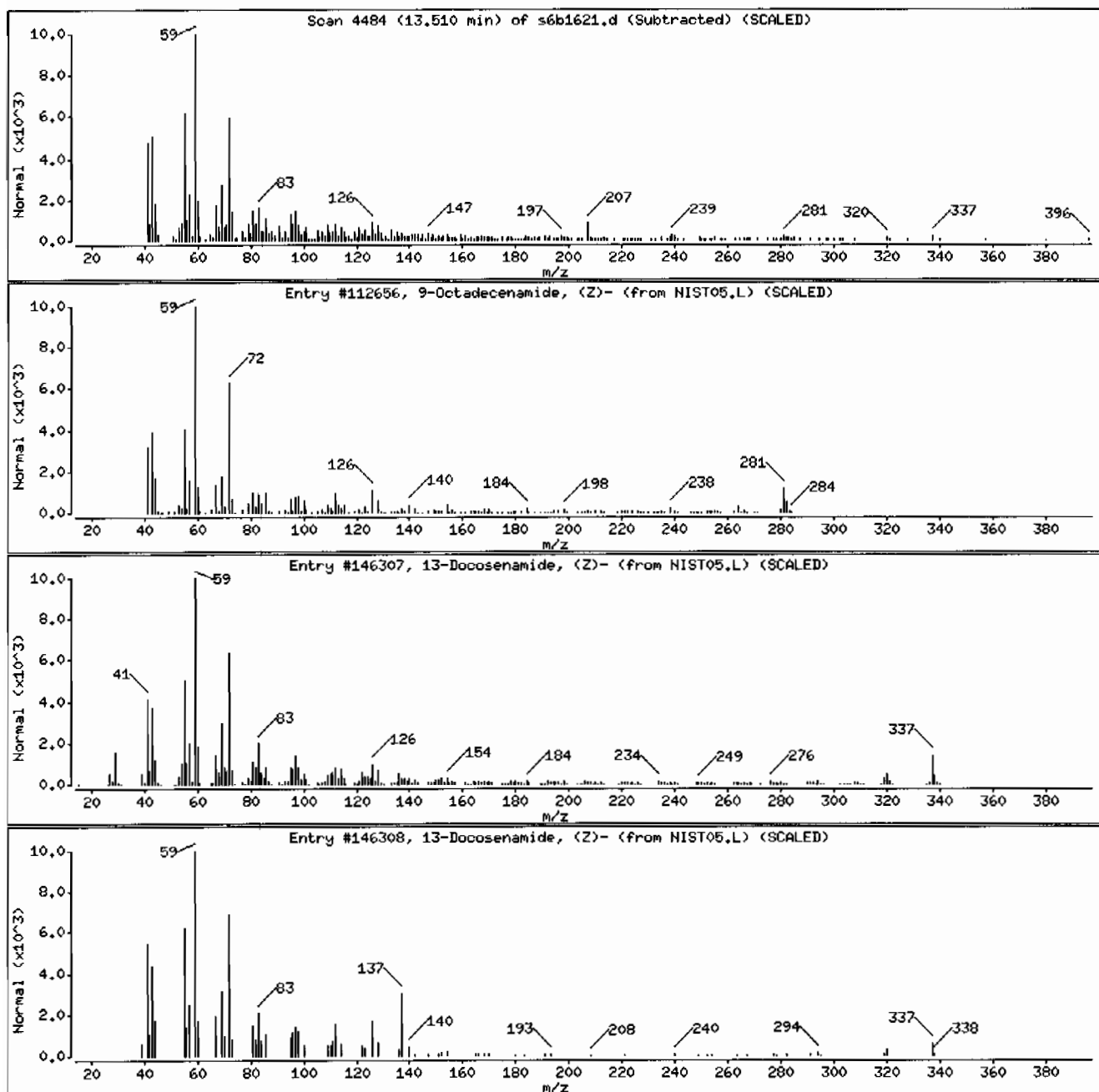
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112656	94	C18H35NO	281
13-Docosenamide, (Z)-	112-84-5	NIST05.L	146307	94	C22H43NO	337
13-Docosenamide, (Z)-	112-84-5	NIST05.L	146308	91	C22H43NO	337



Date: 16-FEB-2010 20:06

Client ID: RE15-10-8305

Instrument: MSD6.i

Sample Info: 1246330003|950447|1|SVH11|LANL

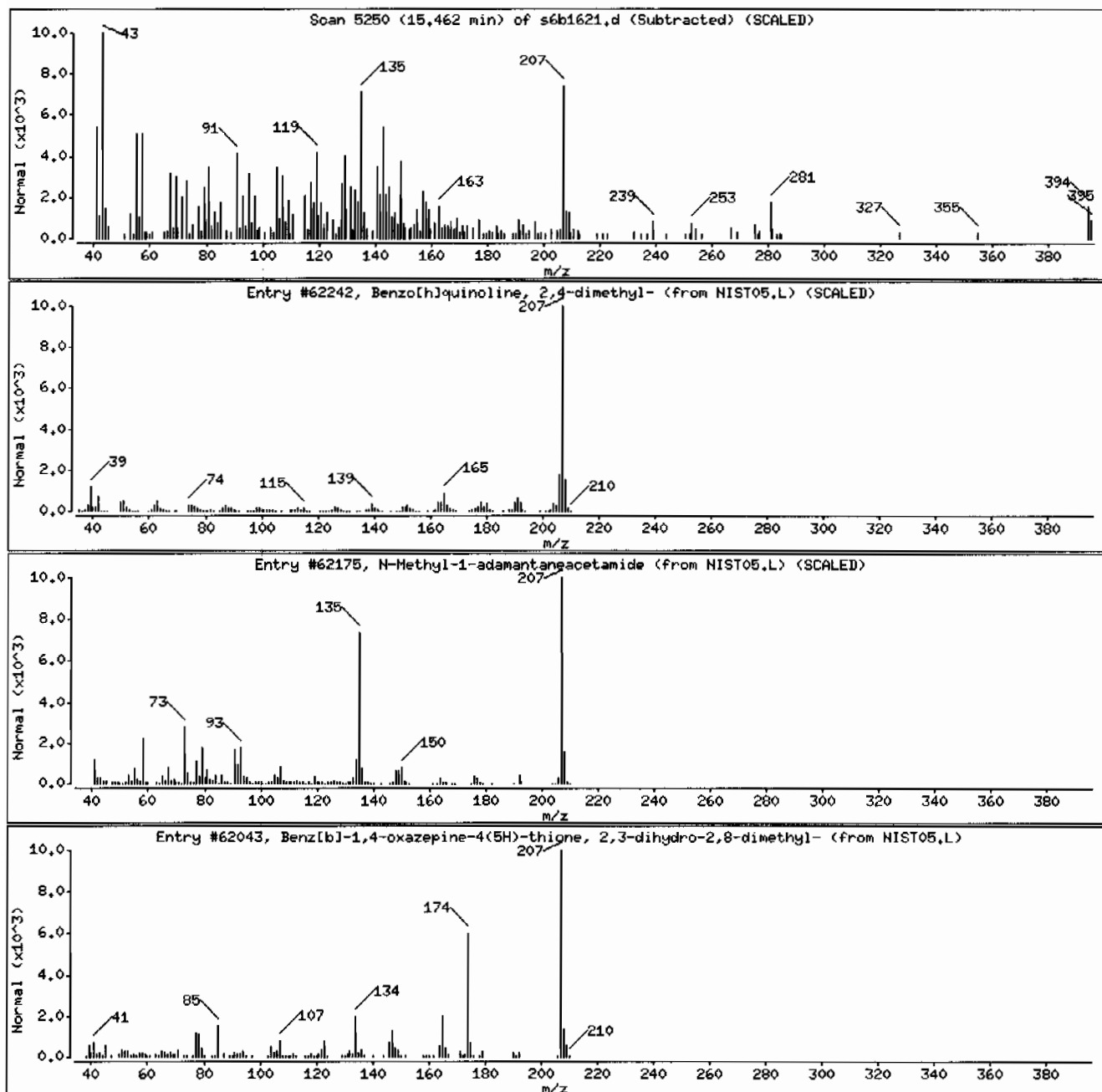
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzo[h]quinoline, 2,4-dimethyl-	605-67-4	NIST05.L	62242	35	C15H13N	207
N-Methyl-1-adamantaneacetamide	31897-93-5	NIST05.L	62175	35	C13H21NO	207
Benz[b]-1,4-oxazepine-4(5H)-thione, 2,3-	1000258-63-4	NIST05.L	62043	35	C11H13NOS	207



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

SDG Number: 10-1567
Lab Sample ID: 246330004

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 21.2
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	423	ug/kg	84.6	423
108-95-2	Phenol	U	423	ug/kg	84.6	423
95-57-8	2-Chlorophenol	U	423	ug/kg	84.6	423
106-46-7	1,4-Dichlorobenzene	U	423	ug/kg	84.6	423
621-64-7	N-Nitrosodipropylamine	U	423	ug/kg	84.6	423
59-50-7	4-Chloro-3-methylphenol	U	423	ug/kg	84.6	423
83-32-9	Acenaphthene	U	42.3	ug/kg	14.0	42.3
121-14-2	2,4-Dinitrotoluene	U	423	ug/kg	42.3	423
100-02-7	4-Nitrophenol	U	423	ug/kg	140	423
87-86-5	Pentachlorophenol	U	423	ug/kg	106	423
129-00-0	Pyrene	U	42.3	ug/kg	12.7	42.3
110-86-1	Pyridine	U	423	ug/kg	84.6	423
62-53-3	Aniline	U	423	ug/kg	127	423
111-44-4	bis(2-Chloroethyl) ether	U	423	ug/kg	84.6	423
541-73-1	1,3-Dichlorobenzene	U	423	ug/kg	84.6	423
100-51-6	Benzyl alcohol	U	423	ug/kg	127	423
95-50-1	1,2-Dichlorobenzene	U	423	ug/kg	84.6	423
108-60-1	bis(2-Chloroisopropyl)ether	U	423	ug/kg	84.6	423
95-48-7	o-Cresol	U	423	ug/kg	84.6	423
65794-96-9	m,p-Cresols	U	423	ug/kg	127	423
67-72-1	Hexachloroethane	U	423	ug/kg	84.6	423
98-95-3	Nitrobenzene	U	423	ug/kg	84.6	423
78-59-1	Isophorone	U	423	ug/kg	84.6	423
88-75-5	2-Nitrophenol	U	423	ug/kg	84.6	423
105-67-9	2,4-Dimethylphenol	U	423	ug/kg	148	423
111-91-1	bis(2-Chloroethoxy)methane	U	423	ug/kg	84.6	423
120-83-2	2,4-Dichlorophenol	U	423	ug/kg	84.6	423
65-85-0	Benzoic acid	U	846	ug/kg	211	846
91-20-3	Naphthalene	U	42.3	ug/kg	12.7	42.3
106-47-8	4-Chloroaniline	U	423	ug/kg	84.6	423
87-68-3	Hexachlorobutadiene	U	423	ug/kg	84.6	423
91-57-6	2-Methylnaphthalene	U	42.3	ug/kg	8.46	42.3
77-47-4	Hexachlorocyclopentadiene	U	423	ug/kg	84.6	423
88-06-2	2,4,6-Trichlorophenol	U	423	ug/kg	84.6	423
95-95-4	2,4,5-Trichlorophenol	U	423	ug/kg	84.6	423
91-58-7	2-Chloronaphthalene	U	42.3	ug/kg	14.0	42.3
88-74-4	2-Nitroaniline	U	423	ug/kg	84.6	423
99-09-2	<i>o</i> -Nitroaniline	U	423	ug/kg	84.6	423
	3-Nitroaniline					

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

SDG Number: 10-1567
Lab Sample ID: 246330004

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
% Moisture: 21.2
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8306
Batch ID: 950447
Run Date: 02/16/2010 20:33
Prep Date: 02/09/2010 11:07
Data File: s6b1622.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	423	ug/kg	84.6	423
606-20-2	2,6-Dinitrotoluene	U	423	ug/kg	42.3	423
208-96-8	Acenaphthylene	U	42.3	ug/kg	12.7	42.3
51-28-5	2,4-Dinitrophenol	U	846	ug/kg	161	846
132-64-9	Dibenzofuran	U	423	ug/kg	84.6	423
84-66-2	Diethylphthalate	U	423	ug/kg	84.6	423
86-73-7	Fluorene	U	42.3	ug/kg	12.7	42.3
7005-72-3	4-Chlorophenylphenylether	U	423	ug/kg	84.6	423
534-52-1	2-Methyl-4,6-dinitrophenol	U	423	ug/kg	84.6	423
100-01-6	4-Nitroaniline	U	423	ug/kg	127	423
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	423	ug/kg	84.6	423
122-66-7	Azobenzene	U	423	ug/kg	84.6	423
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	423	ug/kg	84.6	423
118-74-1	Hexachlorobenzene	U	423	ug/kg	84.6	423
85-01-8	Phenanthrene	U	42.3	ug/kg	12.7	42.3
120-12-7	Anthracene	U	42.3	ug/kg	8.46	42.3
84-74-2	Di-n-butylphthalate	U	423	ug/kg	84.6	423
206-44-0	Fluoranthene	U	42.3	ug/kg	12.7	42.3
85-68-7	Butylbenzylphthalate	U	423	ug/kg	84.6	423
56-55-3	Benzo(a)anthracene	U	42.3	ug/kg	12.7	42.3
91-94-1	3,3'-Dichlorobenzidine	U	423	ug/kg	127	423
218-01-9	Chrysene	U	42.3	ug/kg	12.7	42.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	423	ug/kg	84.6	423
117-84-0	Di-n-octylphthalate	U	423	ug/kg	84.6	423
205-99-2	Benzo(b)fluoranthene	U	42.3	ug/kg	12.7	42.3
207-08-9	Benzo(k)fluoranthene	U	42.3	ug/kg	12.7	42.3
50-32-8	Benzo(a)pyrene	U	42.3	ug/kg	12.7	42.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	42.3	ug/kg	12.7	42.3
53-70-3	Dibenzo(a,h)anthracene	U	42.3	ug/kg	12.7	42.3
191-24-2	Benzo(ghi)perylene	U	42.3	ug/kg	12.7	42.3
120-82-1	1,2,4-Trichlorobenzene	U	423	ug/kg	84.6	423

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	312	ug/kg		JA
	Unknown	8.99	585	ug/kg		J

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

SDG Number: 10-1567
Lab Sample ID: 246330004

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 21.2
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8306
Batch ID: 950447
Run Date: 02/16/2010 20:33
Prep Date: 02/09/2010 11:07
Data File: s6b1622.d

CAS No.	Parname	Qualifier	Result	Units	MDI/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
57-10-3	n-Hexadecanoic acid	9.94	183	ug/kg	98	NJ
	Unknown	11.54	169	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	11.62	264	ug/kg	97	NJ
1235-74-1	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	11.64	241	ug/kg	95	NJ
	Unknown	11.69	241	ug/kg		J
1740-19-8	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	12.08	505	ug/kg	94	NJ
112-84-5	13-Docosenamide, (Z)-	13.51	1140	ug/kg	91	NJ
	Unknown	16.68	956	ug/kg		J
	Unknown	17.04	240	ug/kg		J
	Unknown	17.55	313	ug/kg		J
	Unknown	18.19	196	ug/kg		J

GEL Laboratories LLC

Data file : /chem/MSD6.i/s021610.b/s6b1622.d
Lab Smp Id: 246330004 Client Smp ID: RE15-10-8306
Inj Date : 16-FEB-2010 20:33
Operator : nagl Inst ID: MSD6.i
Smp Info : |246330004|950447|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
Meth Date : 16-Feb-2010 17:39 nat00999 Quant Type: ISTD
Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.sub
Target Version: 3.50
Processing Host: hpcpl1

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	21.23230	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN	FINAL
	-----	==	=====	=====	-----	-----
* 10 1,4-Dichlorobenzene-d4	152	4.650	4.650 (1.000)	324238	40.0000	
* 29 Naphthalene-d8	136	5.914	5.917 (1.000)	1211446	40.0000	
* 46 Acenaphthene-d10	164	7.777	7.779 (1.000)	692111	40.0000	
* 67 Phenanthrene-d10	188	9.382	9.382 (1.000)	1212984	40.0000	
* 91 Chrysene-d12	240	12.333	12.338 (1.000)	828812	40.0000	
* 98 Perylene-d12	264	14.552	14.557 (1.000)	437887	40.0000	
\$ 3 2-Fluorophenol	112	3.514	3.496 (0.756)	446949	55.0454	2330
\$ 5 Phenol-d5	99	4.278	4.273 (0.920)	617086	60.2146	2540
\$ 20 Nitrobenzene-d5	82	5.180	5.185 (0.876)	251098	29.3006	1240
\$ 39 2-Fluorobiphenyl	172	7.038	7.040 (0.905)	520835	29.2009	1230
\$ 60 2,4,6-Tribromophenol	329	8.625	8.625 (1.109)	126928	62.8330	2660
\$ 81 p-Terphenyl-d14	244	11.087	11.087 (0.899)	565545	42.3123	1790

ION RATIO REPORT

SV REPORT

Data file: s6b1622.d

Report Date: 02/17/2010 07:10

Lab. ID: 246330004

SampleType: SAMPLE

Injection Date: 16-FEB-2010 20:33

Operator: nag1

Instrument: MSD6.i

Sample Info: |246330004|950447|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01

Comment:

Method used: /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1567

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
1 N-Methyl-N-nitrosomethylamine				CAS#: 62-75-9		
74	12078	2.26	2.55	80-120	100	(T)
42	1877	2.25	2.55	58-118	16	(QT)
43	20280	2.25	2.55	7- 67	168	(QT)

4 Aniline				CAS#: 62-53-3		
66	32253	4.28	4.34	80-120	100	(T)
93	3110	4.32	4.34	216-276	10	(Q)

17 N-Nitrosodipropylamine				CAS#: 621-64-7		
70	36017	5.18	5.02	80-120	100	(T)
42	22163	5.18	5.02	43-103	62	(T)

22 Isophorone				CAS#: 78-59-1		
82	251098	5.18	5.44	80-120	100	(T)
138	6473	5.91	5.44	0- 49	3	(T)

40 2-Chloronaphthalene				CAS#: 91-58-7		
162	6160	7.38	7.18	80-120	100	(T)
164	333	7.38	7.18	3- 63	5	(T)
127	339	7.38	7.18	9- 69	6	(QT)

43 Dimethylphthalate				CAS#: 131-11-3		
163	125011	7.78	7.47	80-120	100	(T)
164	692111	7.78	7.47	0- 40	554	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
50	2,4-Dinitrotoluene		CAS#: 121-14-2			
165	90691	7.78	7.98	80-120	100	(T)
89	981	7.78	7.98	45-105	1	(QT)
63	1005	7.78	7.98	24- 84	1	(QT)

53	Fluorene		CAS#: 86-73-7			
166	9051	8.62	8.37	80-120	100	(T)
165	8902	8.63	8.37	62-122	98	(T)
167	2852	8.62	8.37	0- 44	32	(T)

55	2-Methyl-4,6-dinitrophenol		CAS#: 534-52-1			
198	406	8.62	8.42	80-120	100	(T)
105	1119	8.62	8.42	12- 72	275	(QT)
51	927	8.62	8.42	27- 87	228	(QT)

99	Indeno(1,2,3-cd)pyrene		CAS#: 193-39-5			
276	175	16.51	16.48	80-120	100	()
138	249	16.67	16.48	4- 64	142	(QT)

Q qualifier indicates ion failed ratio requirement						

GEL Laboratories LLC

Data file : /chem/MSD6.i/s021610.b/s6b1622.d
Lab Smp Id: 246330004 Client Smp ID: RE15-10-8306
Inj Date : 16-FEB-2010 20:33
Operator : nagl Inst ID: MSD6.i
Smp Info : |246330004|950447|1|SVM|1|LANL
Misc Info : |MSD8270 S|WBN100205-01
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
Meth Date : 16-Feb-2010 17:39 nat00999 Quant Type: ISTD
Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.sub
Target Version: 3.50
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	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	21.23230	% moisture

Cpnd Variable Local Compound Variable

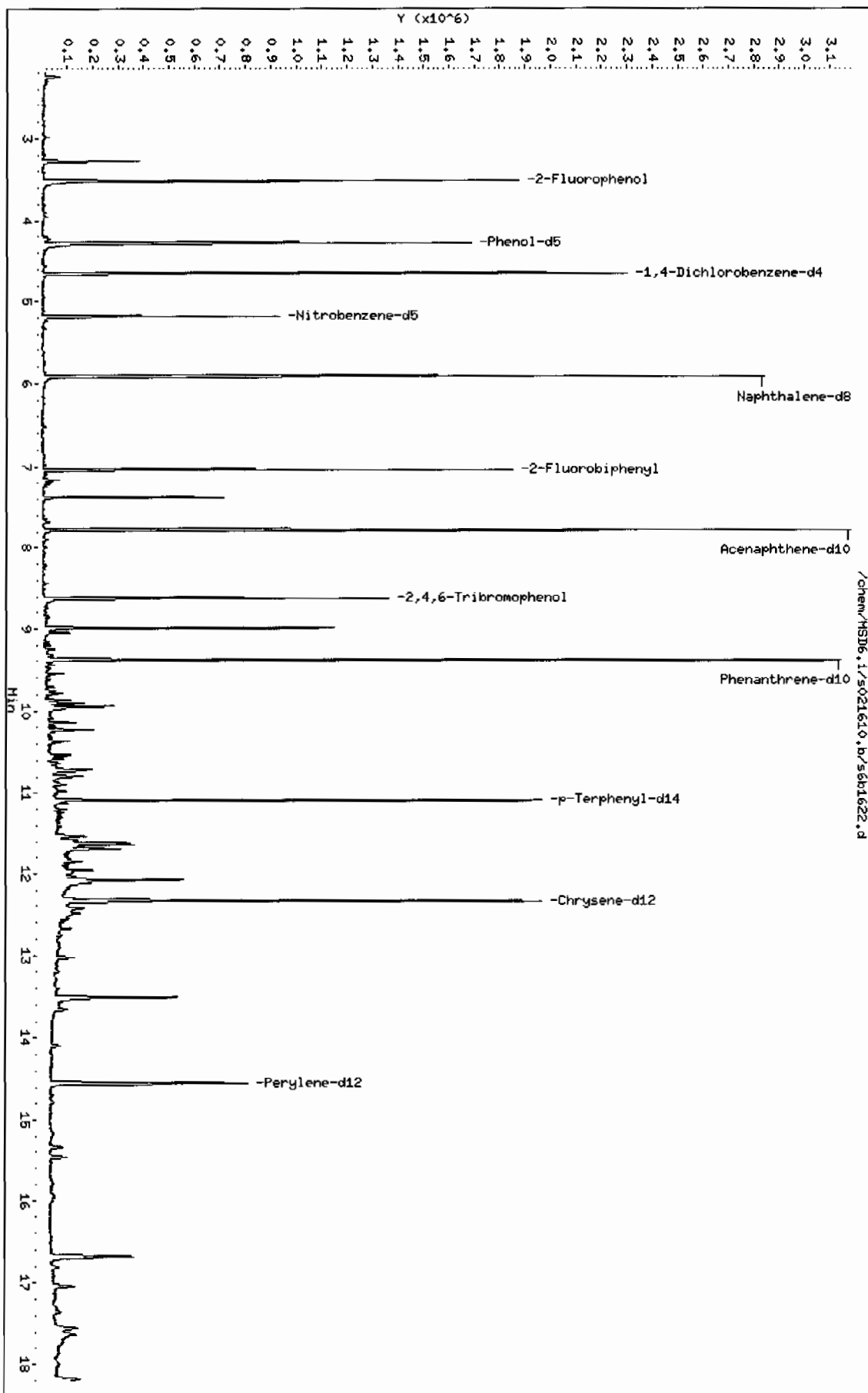
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	4.650	1956544	40.000
* 67 Phenanthrene-d10	9.382	3051197	40.000
* 91 Chrysene-d12	12.333	2266796	40.000
* 98 Perylene-d12	14.552	1228358	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	=====	=====	=====	=====	=====	=====

RT	CONCENTRATIONS				QUANT		
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate				CAS #:			
3.274	361334	7.38719137	312	0		0	10
Unknown				CAS #:			
8.990	1055414	13.8360591	585	0		0	67
n-Hexadecanoic acid				CAS #: 57-10-3			
9.943	329527	4.31996585	183	98	NIST05.L	96235	67
Unknown				CAS #:			
11.535	226994	4.00555124	169	0		0	91
9-Octadecenamide, (Z)-				CAS #: 301-02-0			
11.619	353424	6.23653048	264	97	NIST05.L	112655	91
1-Phenanthrenecarboxylic acid, 1,2,3,4,4				CAS #: 1235-74-1			
11.637	323219	5.70354096	241	95	NIST05.L	133618	91
Unknown				CAS #:			
11.691	323574	5.70979420	241	0		0	91
1-Phenanthrenecarboxylic acid, 1,2,3,4,4				CAS #: 1740-19-8			
12.075	676630	11.9398480	505	94	NIST05.L	125034	91
13-Docosenamide, (Z)-				CAS #: 112-84-5			
13.507	824525	26.8496415	1140	91	NIST05.L	146308	98
Unknown				CAS #:			
16.680	694397	22.6121750	956	0		0	98
Unknown				CAS #:			
17.039	174087	5.66893876	240	0		0	98
Unknown				CAS #:			
17.551	227137	7.39642440	313	0		0	98
Unknown				CAS #:			
18.186	142318	4.63442286	196	0		0	98

Data File: /chem/HSD6.i/s021610.b/s6b1622.d
 Date: 16-FEB-2010 20:33
 Client ID: RE15-10-8306
 Sample Info: 12463300041950447111SWH11.LANL
 Volume Injected (uL): 0.5
 Column phase: J&W DB-SHS

Instrument: HSD6.i
 Operator: nag1
 Column diameter: 0.20



Date : 16-FEB-2010 20:33

Client ID: RE15-10-8306

Instrument: MSD6.i

Sample Info: 12463300041950447111SVMI11LANL

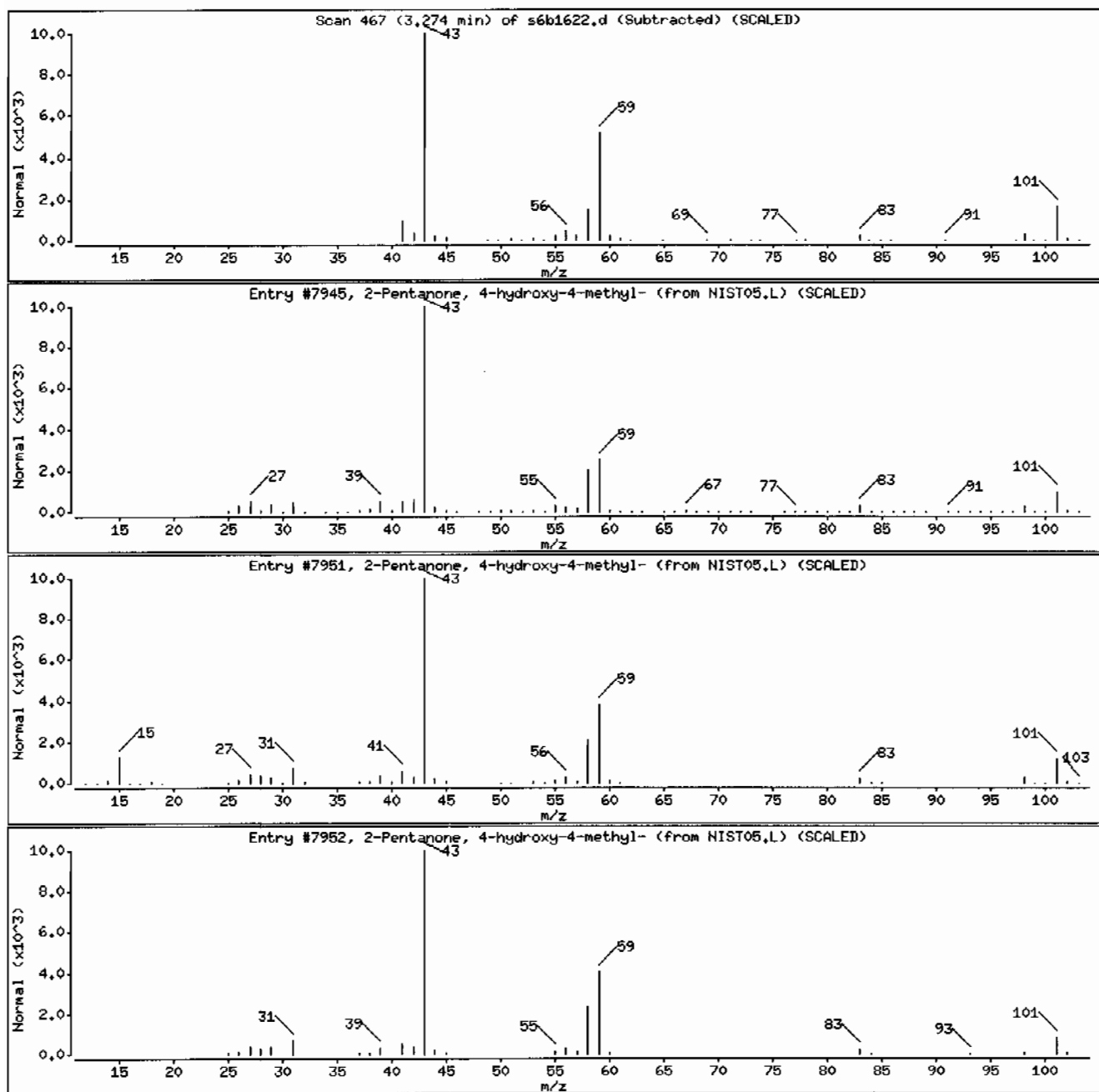
Volume Injected (uL): 0.5

Operator: nag1

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	59	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	50	C6H12O2	116



Date: 16-FEB-2010 20:33

Client ID: RE15-10-8306

Instrument: MSD6.i

Sample Info: 1246330004195044711SVMI11LANL

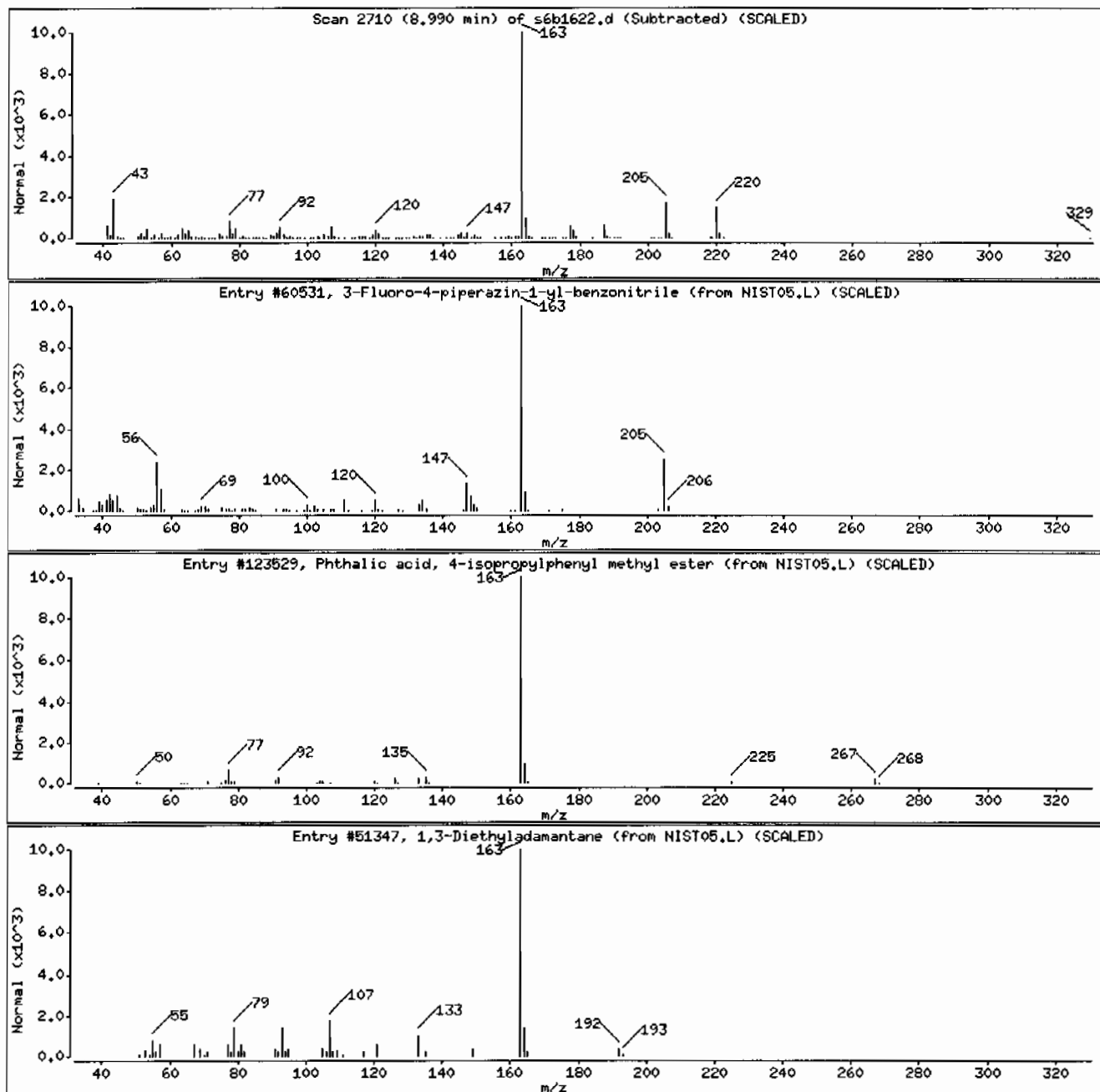
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3-Fluoro-4-piperazin-1-yl-benzonitrile	1000294-93-5	NIST05.L	60531	59	C11H12FN3	205
Phthalic acid, 4-isopropylphenyl methyl	1000315-65-7	NIST05.L	123529	50	C18H18O4	298
1,3-Diethyladamantane	25074-51-5	NIST05.L	51347	47	C14H24	192



Date: 16-FEB-2010 20:33

Client ID: RE15-10-8306

Instrument: MSD6.i

Sample Info: I246330004I950447I1ISVH11ILANL

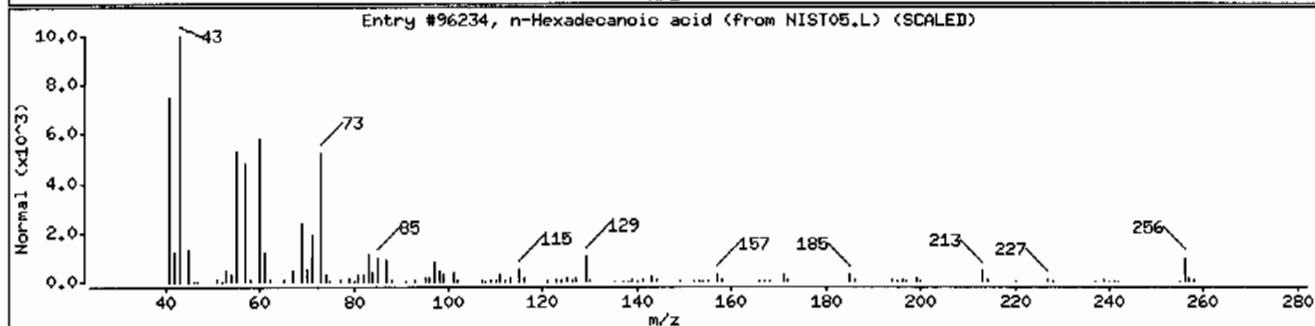
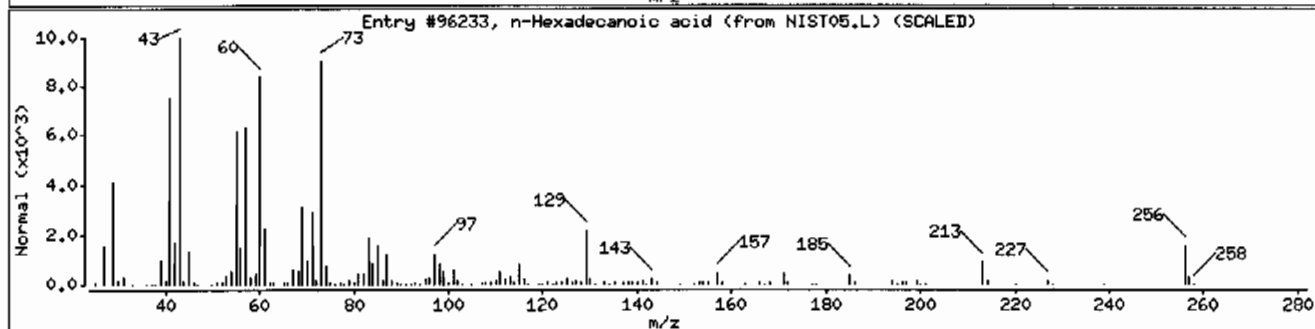
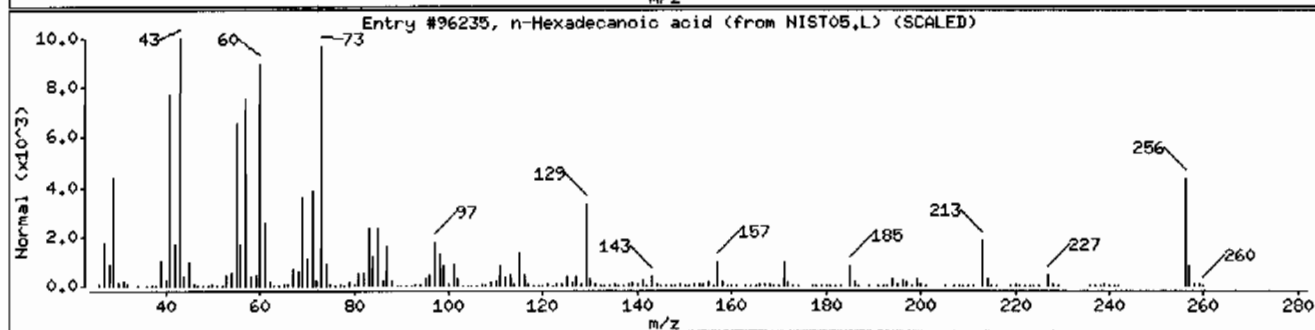
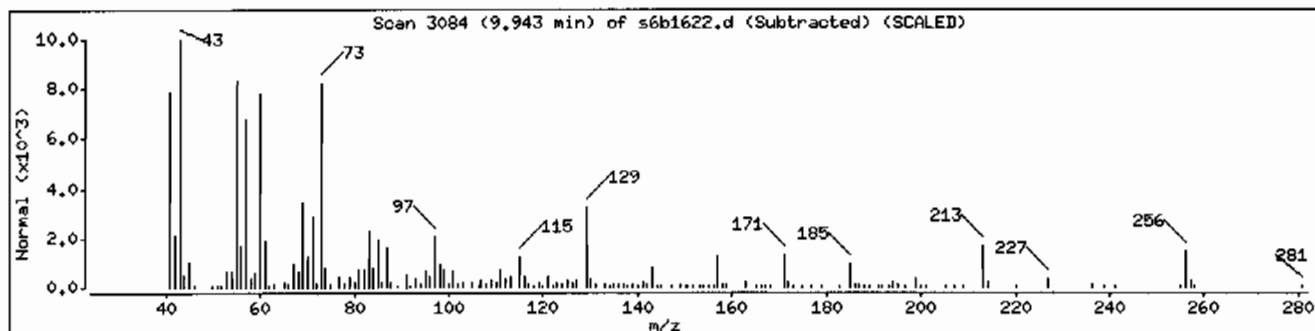
Volume Injected (uL): 0.5

Operator: nag1

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	96	C16H32O2	256
n-Hexadecanoic acid	57-10-3	NIST05.L	96234	93	C16H32O2	256



Date : 16-FEB-2010 20:33

Client ID: RE15-10-8306

Instrument: HSD6.i

Sample Info: I246330004I9504471IISVMI1ILANL

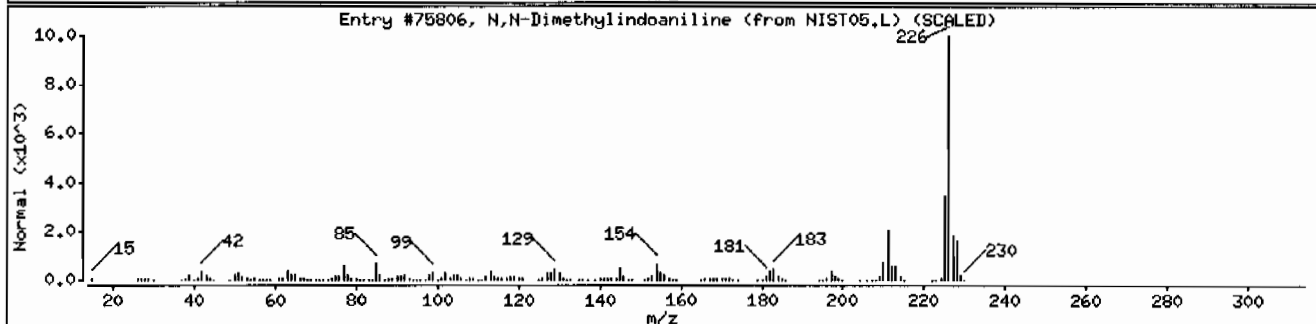
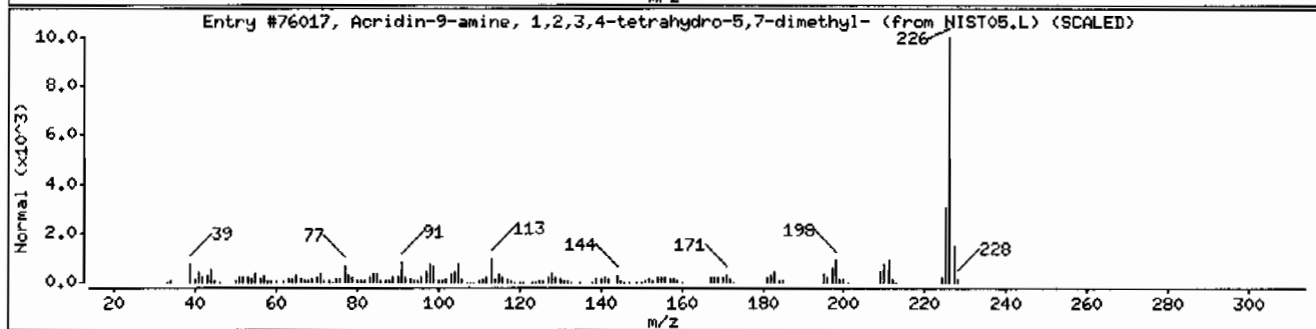
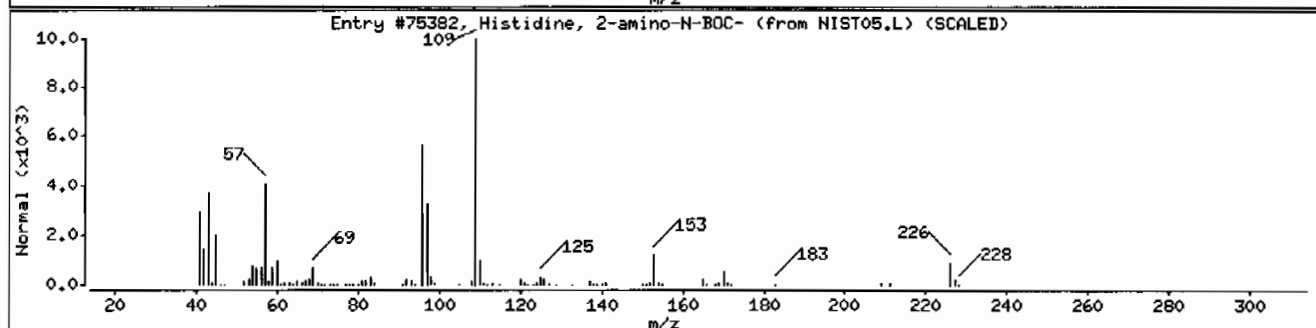
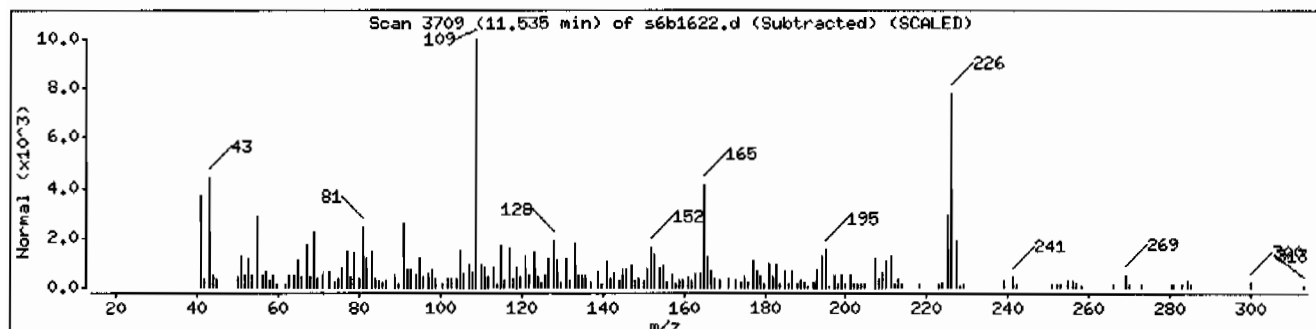
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Histidine, 2-amino-N-BOC-	1000129-62-6	NIST05.L	75382	53	C ₁₀ H ₁₈ N ₄ O ₂	226
Acridin-9-amine, 1,2,3,4-tetrahydro-5,7-	1000300-57-6	NIST05.L	76017	46	C ₁₅ H ₁₈ N ₂	226
N,N-Dimethylindoline	2150-58-5	NIST05.L	75806	42	C ₁₄ H ₁₄ N ₂ O	226



Date: 16-FEB-2010 20:33

Client ID: RE15-10-8306

Instrument: MSD6.i

Sample Info: 1246330004195044711SVH111LANL

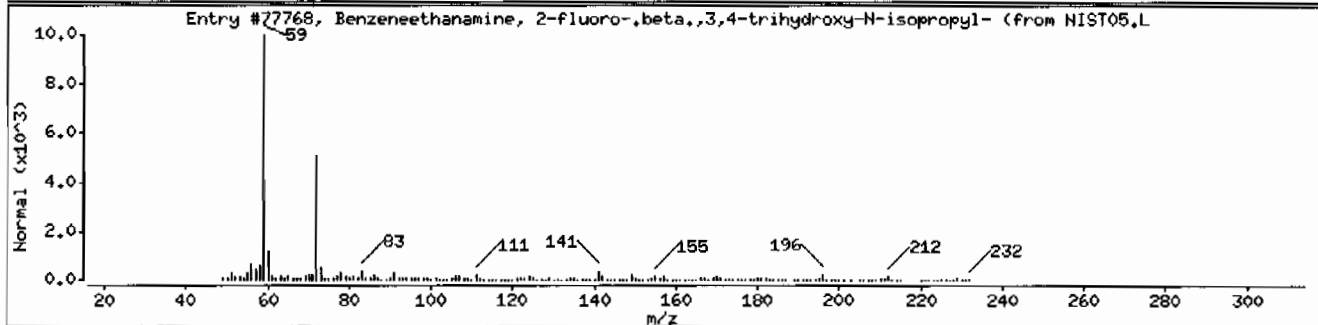
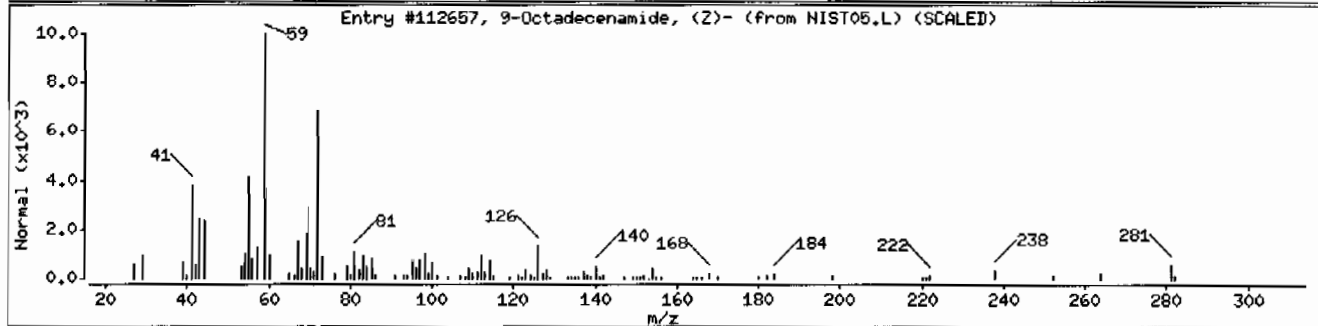
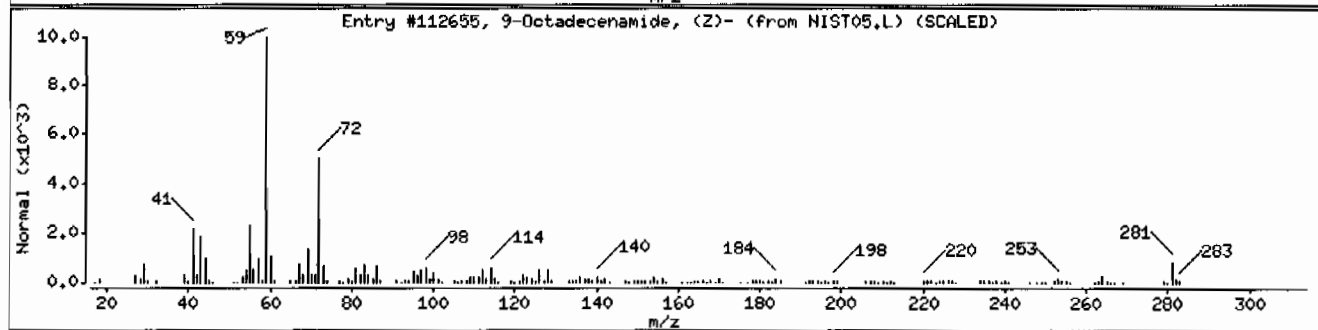
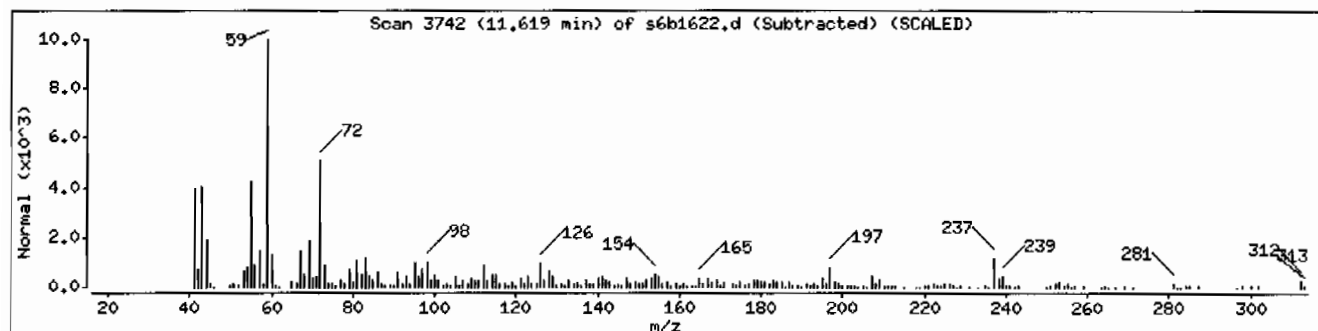
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112655	97	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112657	86	C18H35NO	281
Benzeneethanamine, 2-fluoro-,beta.,3,4-t	61338-98-5	NIST05.L	77768	64	C11H16FN03	229



Date: 16-FEB-2010 20:33

Client ID: RE15-10-8306

Instrument: HSD6.i

Sample Info: 1246330004195044711SVMI11LANL

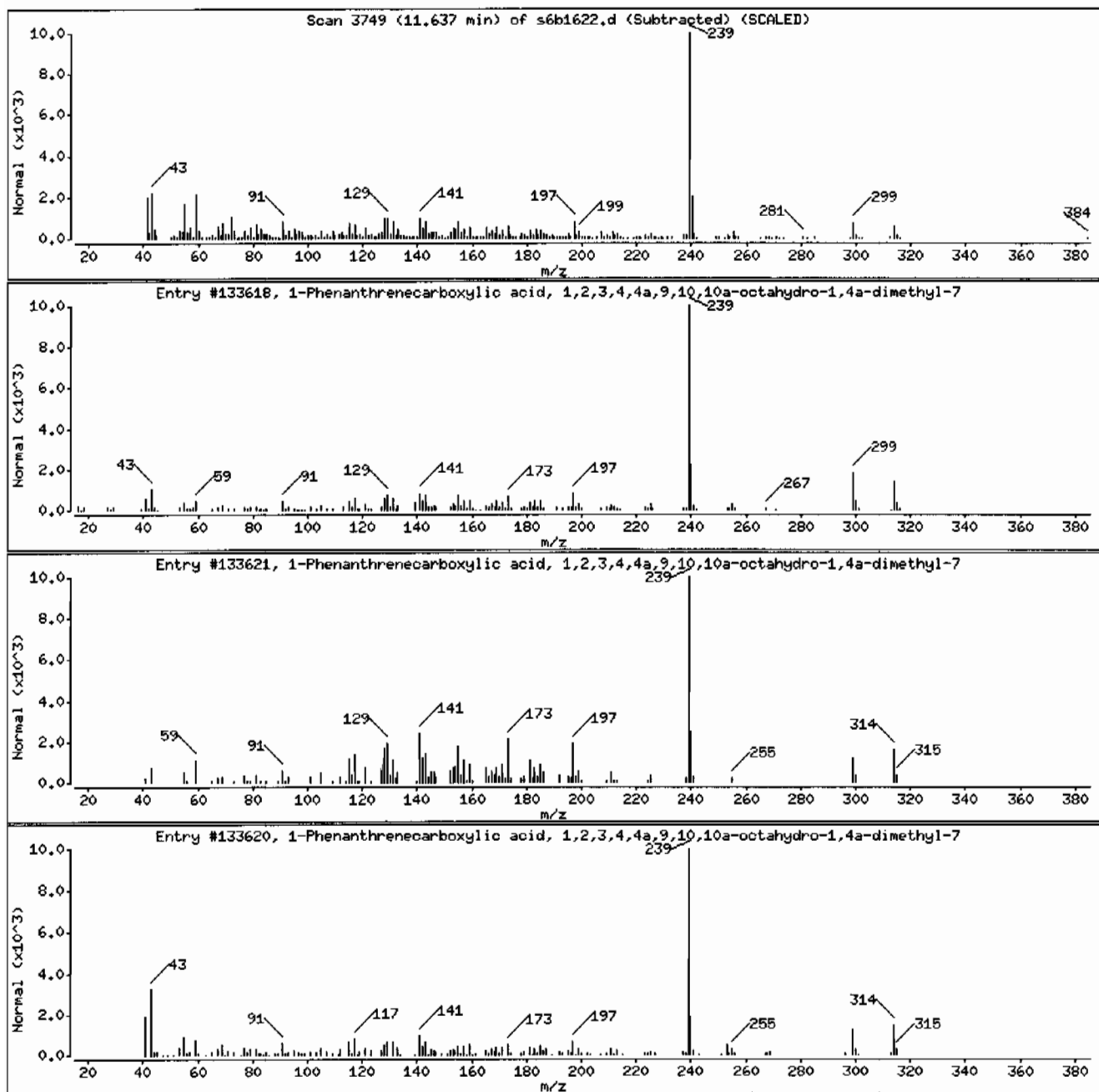
Volume Injected (uL): 0.5

Operator: nag1

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	1238-74-1	NIST05.L	133618	95	C21H30O2	314
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1238-74-1	NIST05.L	133621	93	C21H30O2	314
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1238-74-1	NIST05.L	133620	91	C21H30O2	314



Date : 16-FEB-2010 20:33

Client ID: RE15-10-8306

Instrument: MSD6.i

Sample Info: I246330004|950447|11SVH11|LANL

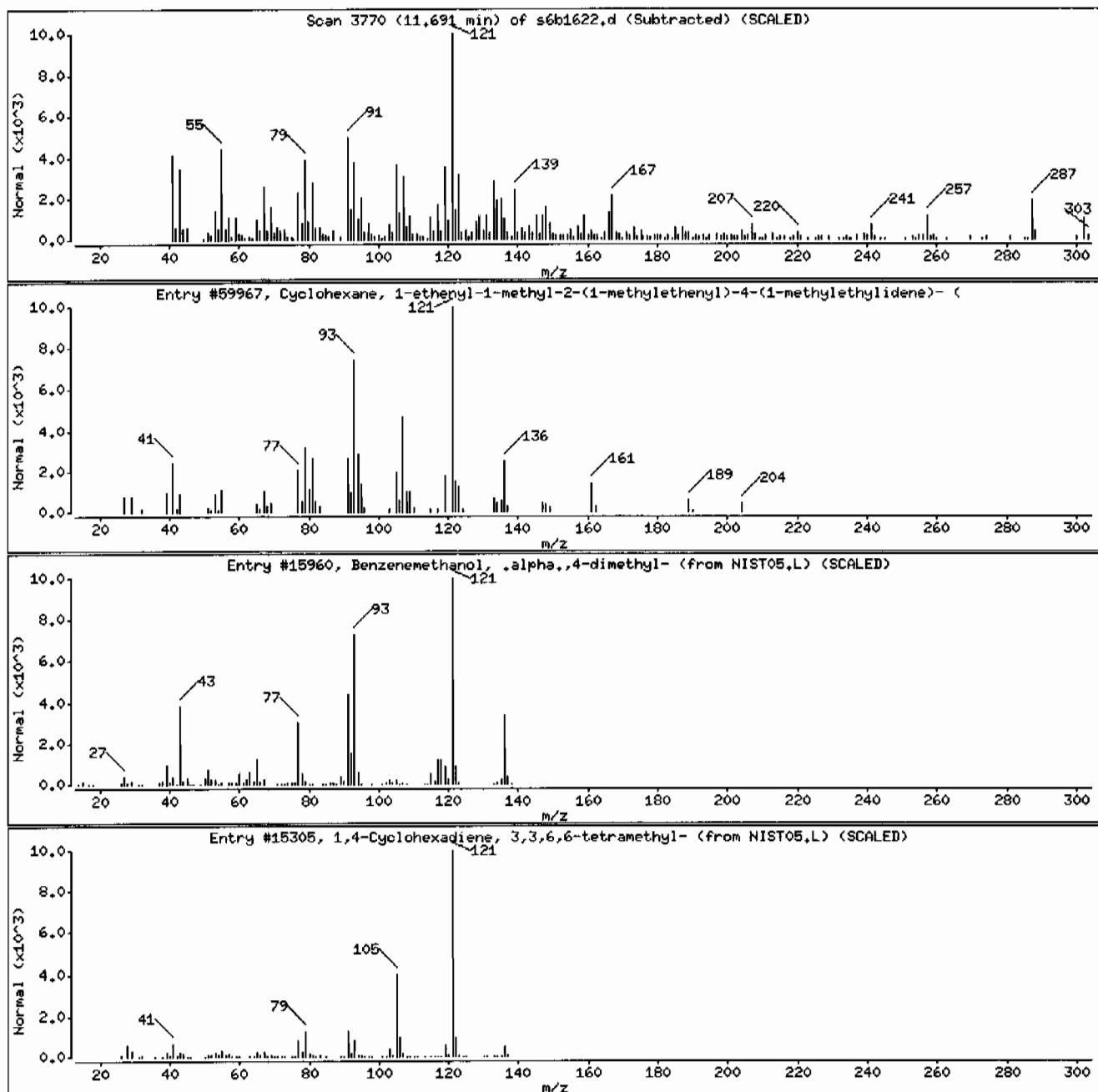
Volume Injected (uL): 0.5

Operator: nag1

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-met	3242-08-8	NIST05.L	59967	27	C15H24	204
Benzenemethanol, .alpha.,4-dimethyl-	536-50-5	NIST05.L	15960	22	C9H12O	136
1,4-Cyclohexadiene, 3,3,6,6-tetramethyl-	2223-54-3	NIST05.L	15305	20	C10H16	136



Date : 16-FEB-2010 20:33

Client ID: RE15-10-8306

Instrument: MSD6.i

Sample Info: 1246330004195044711SVMI1ILANL

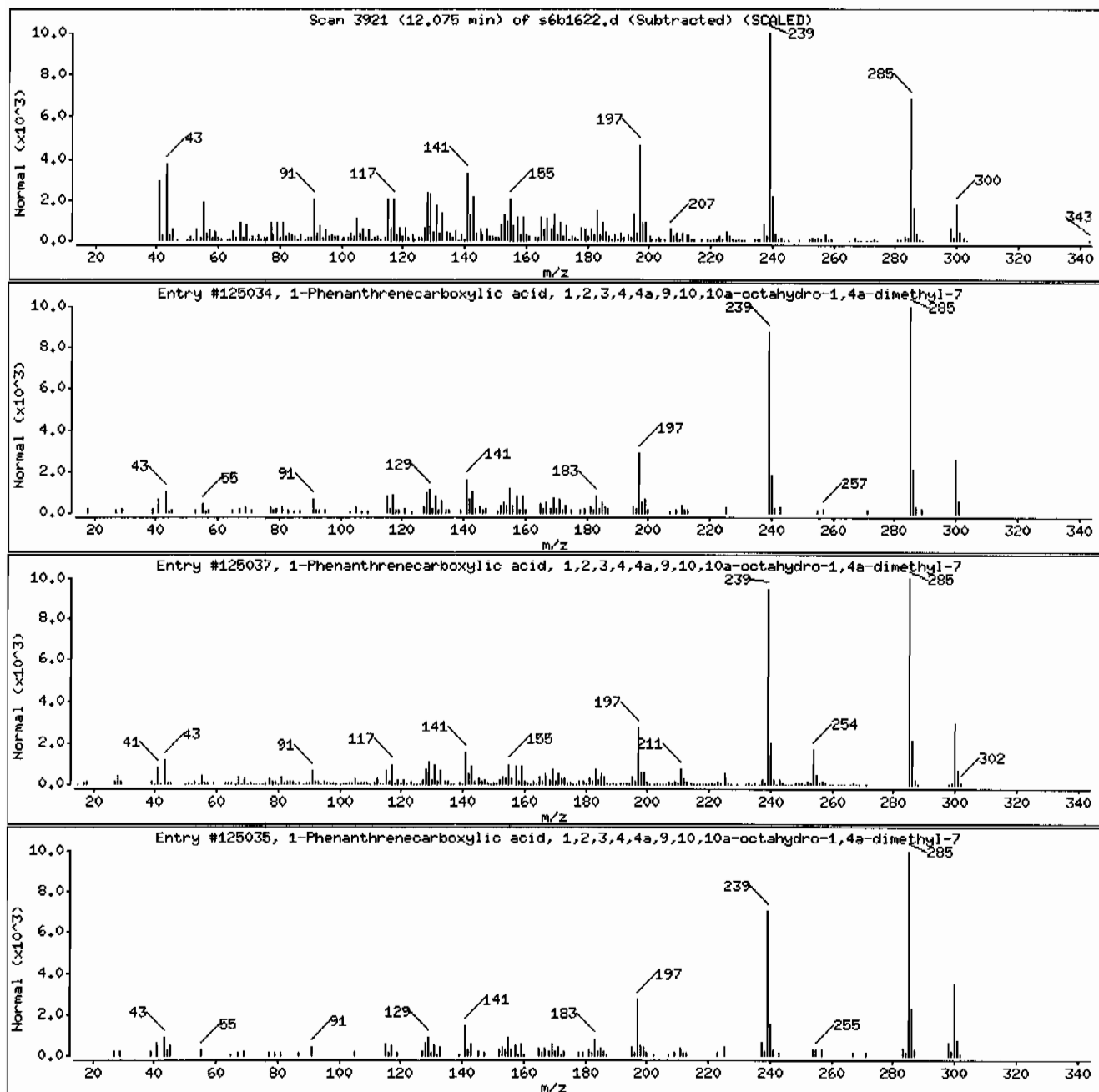
Volume Injected (uL): 0.5

Operator: nag1

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	94	C20H28O2	300
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1740-19-8	NIST05.L	125037	93	C20H28O2	300
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	5155-70-4	NIST05.L	125035	91	C20H28O2	300



Date: 16-FEB-2010 20:33

Client ID: RE15-10-8306

Instrument: MSD6.i

Sample Info: 12463300041950447111SVH111LANL

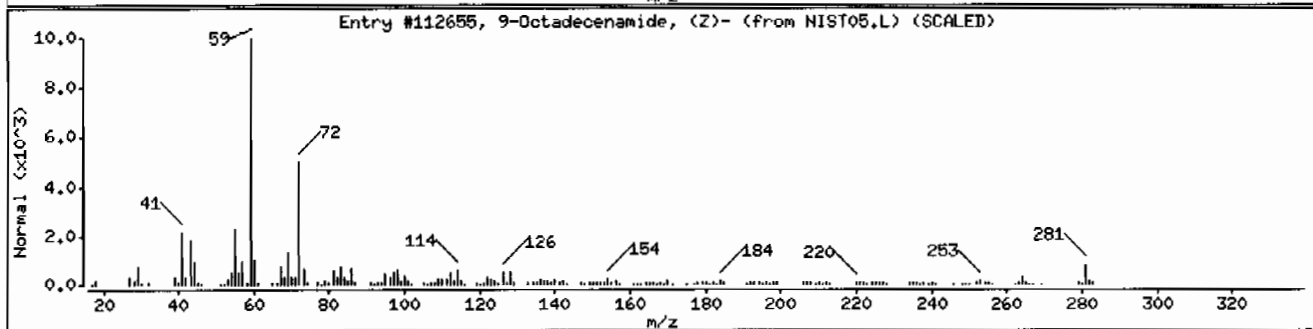
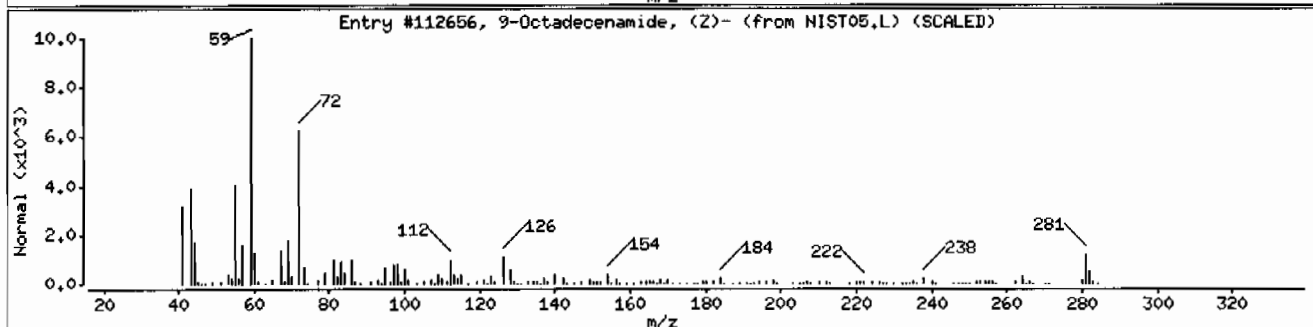
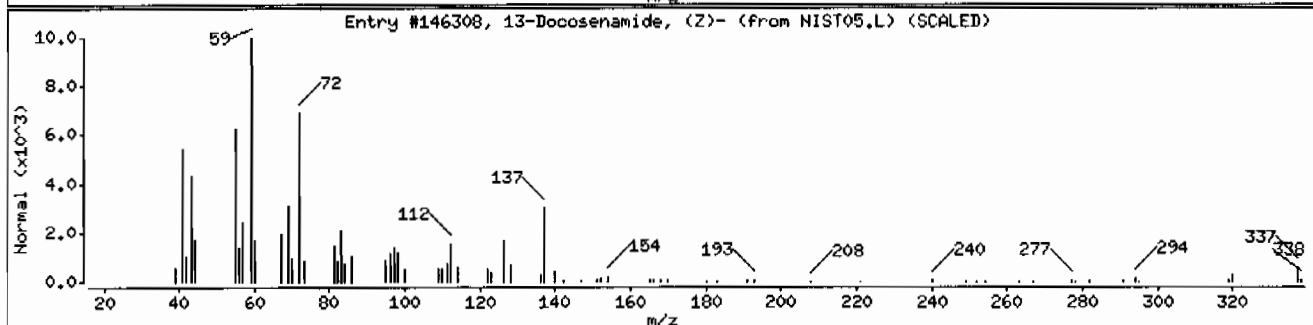
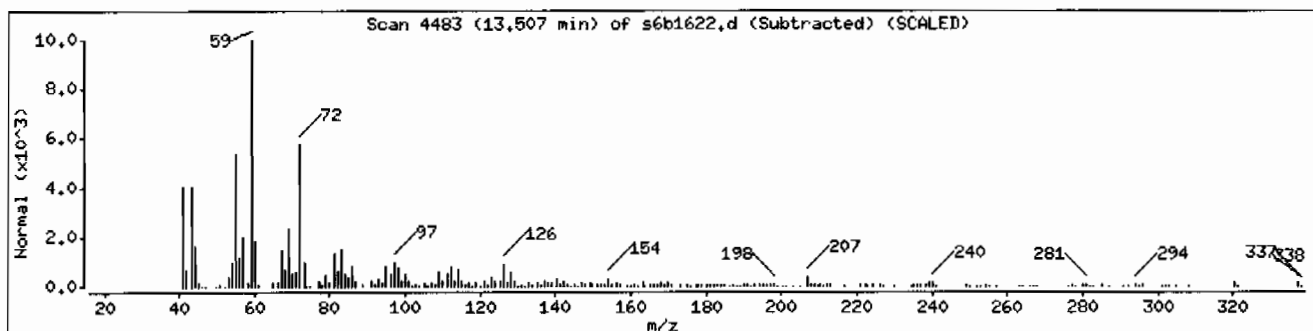
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
13-Docosenamide, (Z)-	112-84-5	NIST05.L	146308	91	C22H43NO	337
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112656	90	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112655	87	C18H35NO	281



Date: 16-FEB-2010 20:33

Client ID: RE15-10-8306

Instrument: MSD6.i

Sample Info: 1246330004|95044711|SVH11|LANL

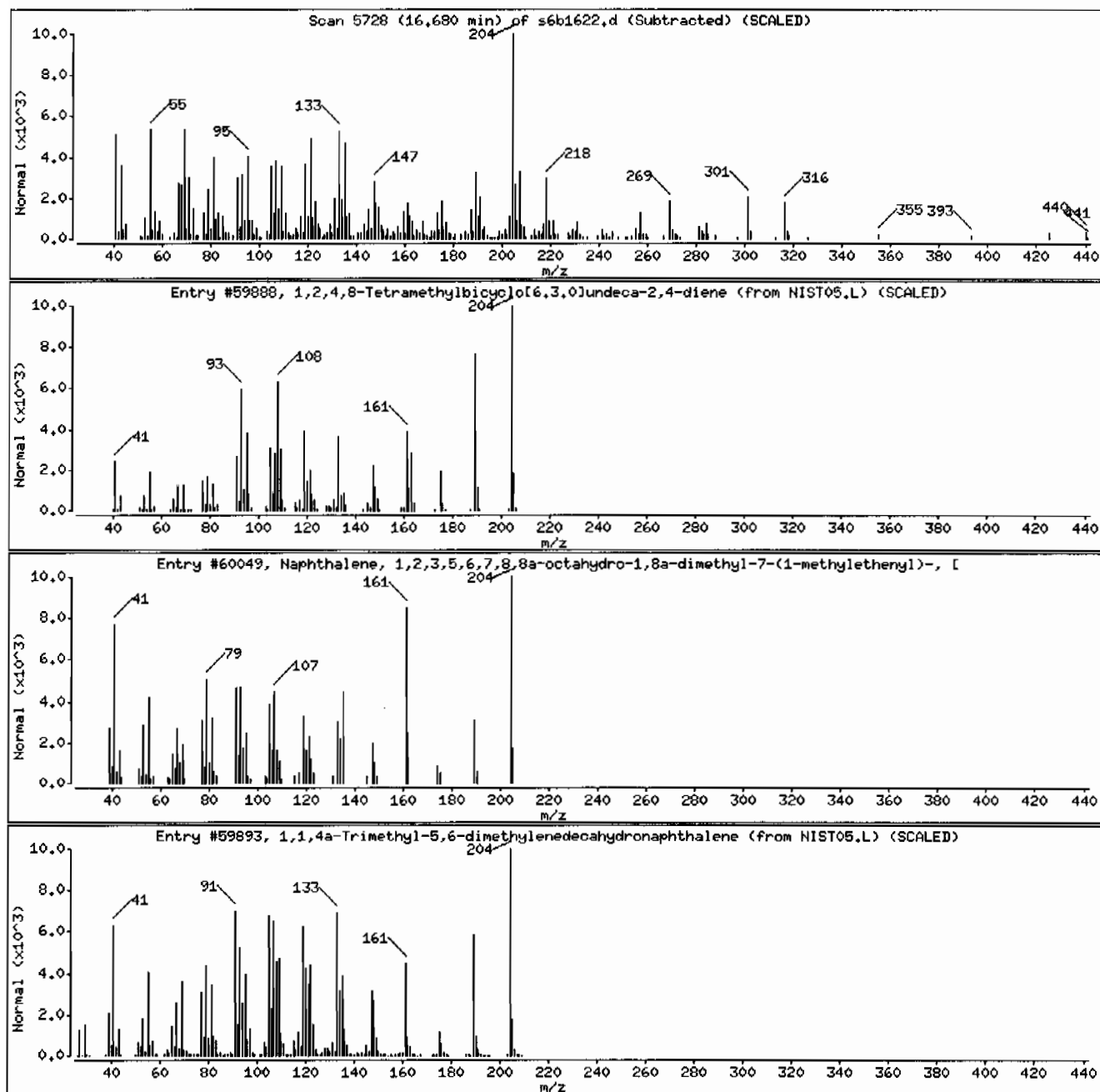
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-	137235-51-9	NIST05.L	59888	70	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60049	60	C15H24	204
1,1,4a-Trimethyl-5,6-dimethylenedecahydr	1000193-60-8	NIST05.L	59893	49	C15H24	204



Date: 16-FEB-2010 20:33

Client ID: RE15-10-8306

Instrument: MSD6.i

Sample Info: 1246330004195044711SVMI11LANL

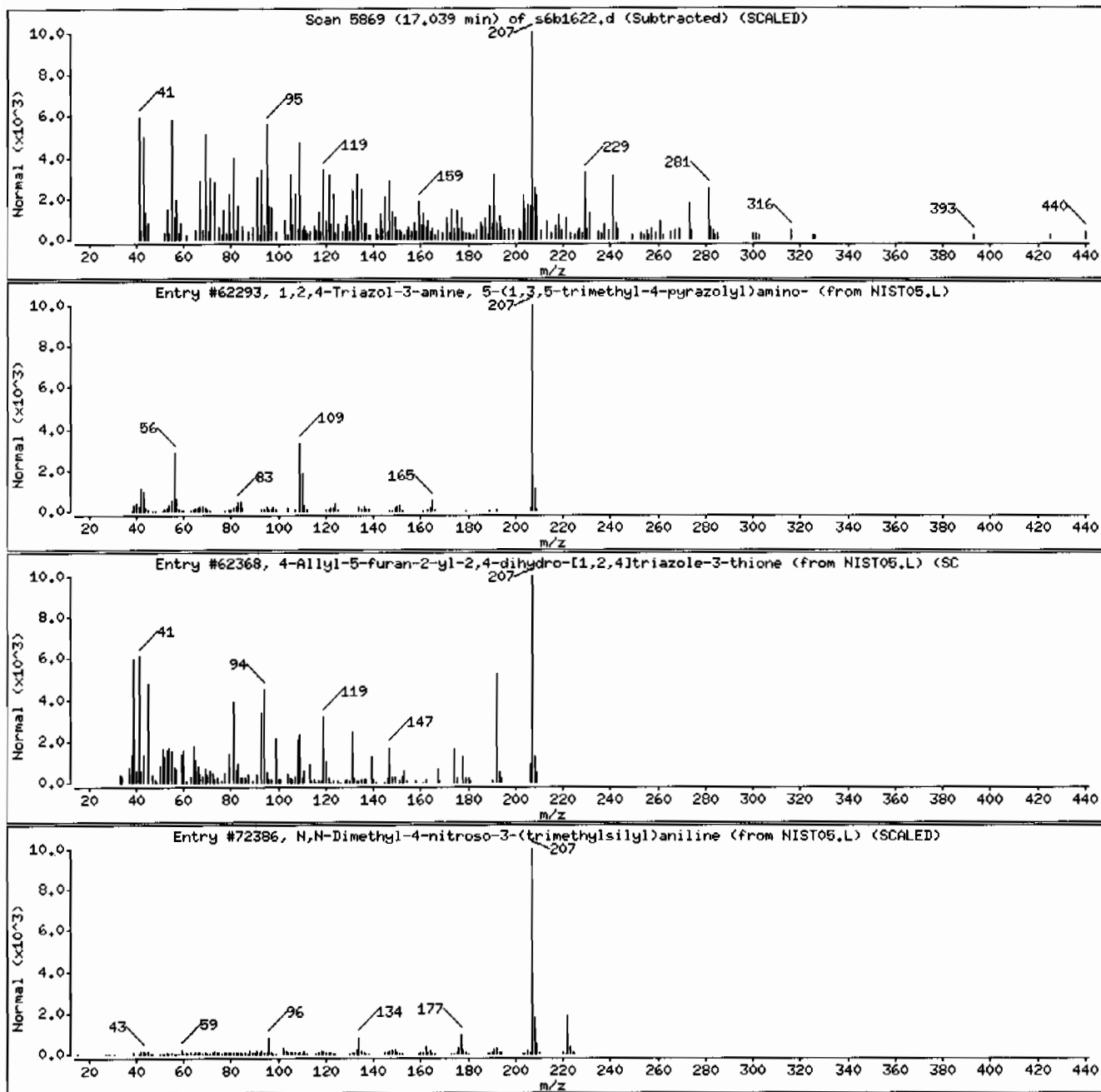
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,2,4-Triazol-3-amine, 5-(1,3,5-trimethy	1000264-16-7	NIST05.L	62293	38	C8H13N7	207
4-Allyl-5-furan-2-yl-2,4-dihydro-[1,2,4]	1000300-01-3	NIST05.L	62368	27	C9H9N3OS	207
N,N-Dimethyl-4-nitroso-3-(trimethylsilyl)	17993-84-9	NIST05.L	72386	22	C11H18N2OSi	222



Date: 16-FEB-2010 20:33

Client ID: RE15-10-8306

Instrument: MSD6.i

Sample Info: 1246330004195044711SVH111LANL

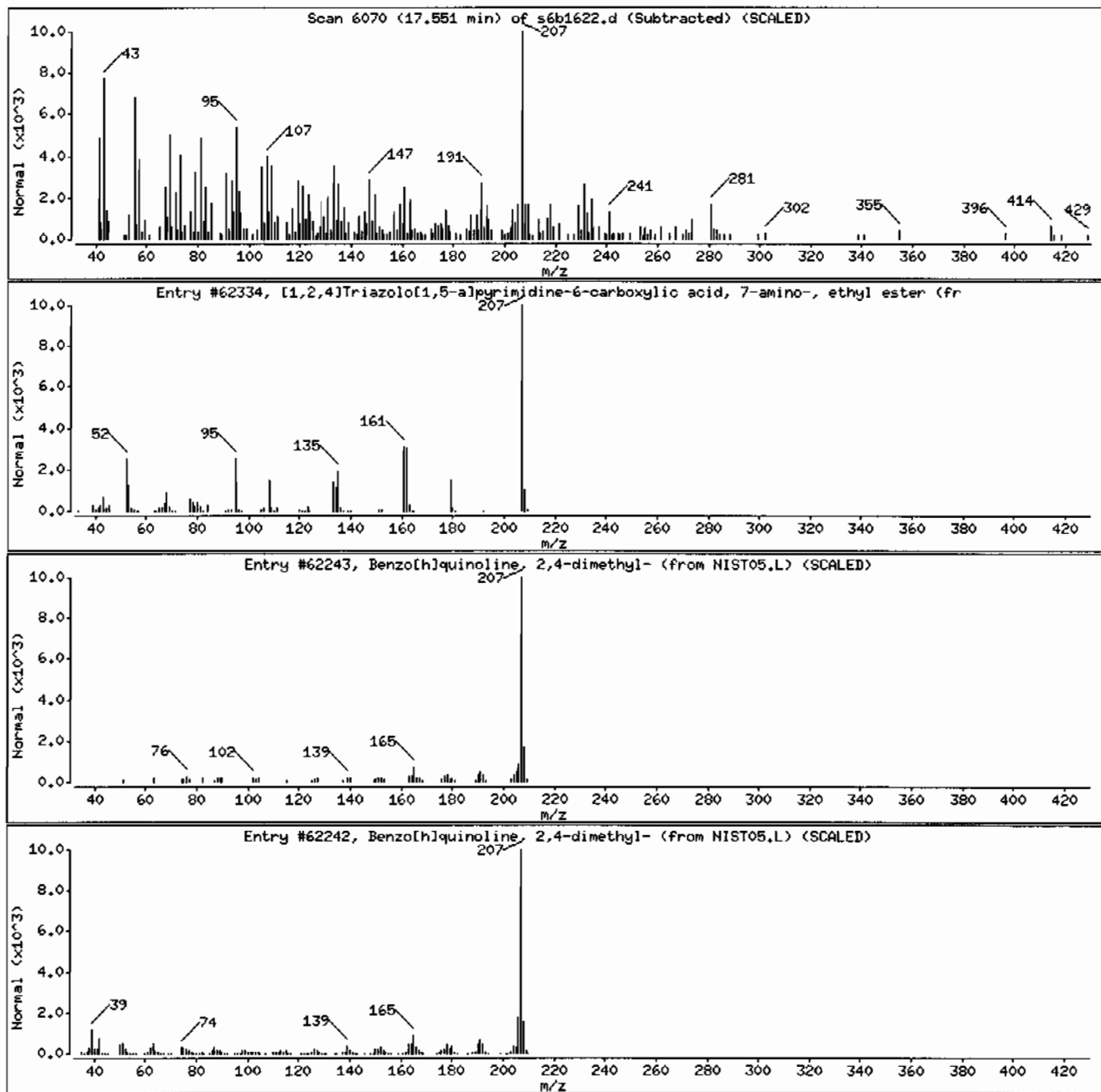
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
[1,2,4]Triazol[1,5-a]pyrimidine-6-carbo	1000316-75-8	NIST05.L	62334	36	C8H9N5O2	207
Benzo[h]quinoline, 2,4-dimethyl-	605-67-4	NIST05.L	62243	30	C15H13N	207
Benzo[h]quinoline, 2,4-dimethyl-	605-67-4	NIST05.L	62242	30	C15H13N	207



Date : 16-FEB-2010 20:33

Client ID: RE15-10-8306

Instrument: MSD6.i

Sample Info: 1246330004195044711SVH111LANL

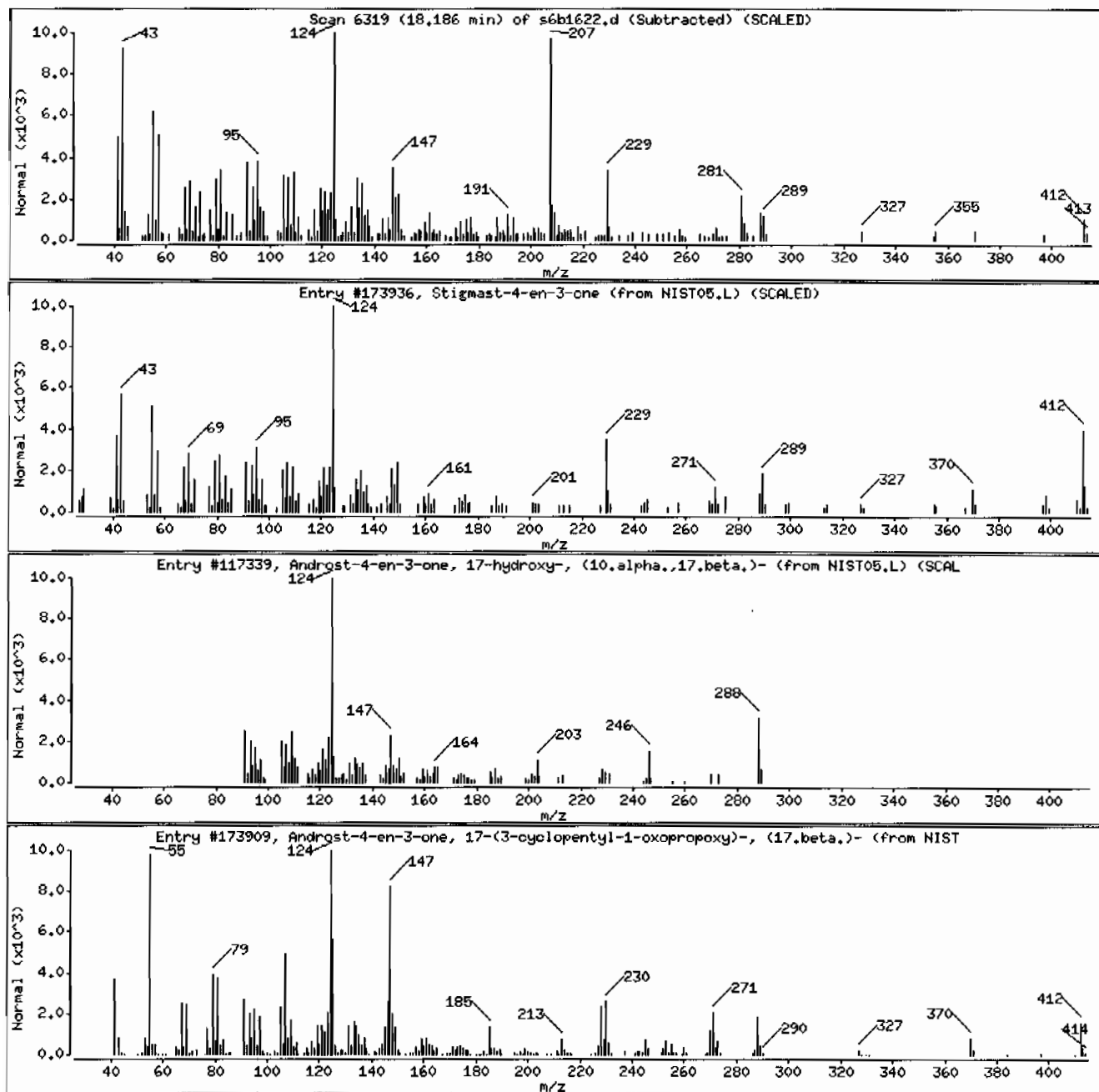
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Stigmast-4-en-3-one	1058-61-3	NIST05.L	173936	78	C29H48O	412
Androst-4-en-3-one, 17-hydroxy-, (10.alpha.)	604-39-7	NIST05.L	117339	47	C19H28O2	288
Androst-4-en-3-one, 17-(3-cyclopentyl-1-	58-20-8	NIST05.L	173909	40	C27H40O3	412



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

SDG Number: 10-1567
Lab Sample ID: 246330005

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 14.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8307
Batch ID: 950447
Run Date: 02/16/2010 21:01
Prep Date: 02/09/2010 11:07
Data File: s6b1623.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	390	ug/kg	77.9	390
108-95-2	Phenol	U	390	ug/kg	77.9	390
95-57-8	2-Chlorophenol	U	390	ug/kg	77.9	390
106-46-7	1,4-Dichlorobenzene	U	390	ug/kg	77.9	390
621-64-7	N-Nitrosodipropylamine	U	390	ug/kg	77.9	390
59-50-7	4-Chloro-3-methylphenol	U	390	ug/kg	77.9	390
83-32-9	Acenaphthene	U	39.0	ug/kg	12.9	39.0
121-14-2	2,4-Dinitrotoluene	U	390	ug/kg	39.0	390
100-02-7	4-Nitrophenol	U	390	ug/kg	129	390
87-86-5	Pentachlorophenol	U	390	ug/kg	97.4	390
129-00-0	Pyrene	U	39.0	ug/kg	11.7	39.0
110-86-1	Pyridine	U	390	ug/kg	77.9	390
62-53-3	Aniline	U	390	ug/kg	117	390
111-44-4	bis(2-Chloroethyl) ether	U	390	ug/kg	77.9	390
541-73-1	1,3-Dichlorobenzene	U	390	ug/kg	77.9	390
100-51-6	Benzyl alcohol	U	390	ug/kg	117	390
95-50-1	1,2-Dichlorobenzene	U	390	ug/kg	77.9	390
108-60-1	bis(2-Chloroisopropyl) ether	U	390	ug/kg	77.9	390
95-48-7	o-Cresol	U	390	ug/kg	77.9	390
65794-96-9	m,p-Cresols	U	390	ug/kg	117	390
67-72-1	Hexachloroethane	U	390	ug/kg	77.9	390
98-95-3	Nitrobenzene	U	390	ug/kg	77.9	390
78-59-1	Isophorone	U	390	ug/kg	77.9	390
88-75-5	2-Nitrophenol	U	390	ug/kg	77.9	390
105-67-9	2,4-Dimethylphenol	U	390	ug/kg	136	390
111-91-1	bis(2-Chloroethoxy)methane	U	390	ug/kg	77.9	390
120-83-2	2,4-Dichlorophenol	U	390	ug/kg	77.9	390
65-85-0	Benzoic acid	U	779	ug/kg	195	779
91-20-3	Naphthalene	U	39.0	ug/kg	11.7	39.0
106-47-8	4-Chloroaniline	U	390	ug/kg	77.9	390
87-68-3	Hexachlorobutadiene	U	390	ug/kg	77.9	390
91-57-6	2-Methylnaphthalene	U	39.0	ug/kg	7.79	39.0
77-47-4	Hexachlorocyclopentadiene	U	390	ug/kg	77.9	390
88-06-2	2,4,6-Trichlorophenol	U	390	ug/kg	77.9	390
95-95-4	2,4,5-Trichlorophenol	U	390	ug/kg	77.9	390
91-58-7	2-Chloronaphthalene	U	39.0	ug/kg	12.9	39.0
88-74-4	2-Nitroaniline	U	390	ug/kg	77.9	390
99-09-2	<i>o</i> -Nitroaniline	U	390	ug/kg	77.9	390
	3-Nitroaniline					

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330005	Date Received: 02/05/2010 09:00	%Moisture: 14.4
Client ID: RE15-10-8307	Client: LANL010	Project: LANL01004
Batch ID: 950447	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 02/16/2010 21:01	Inst: MSD6.I	Dilution: 1
Prep Date: 02/09/2010 11:07	Analyst: NAG1	Inj. Vol: .5 uL
Data File: s6b1623.d	Aliquot: 30 g	Final Volume: 1 mL
	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	390	ug/kg	77.9	390
606-20-2	2,6-Dinitrotoluene	U	390	ug/kg	39.0	390
208-96-8	Acenaphthylene	U	39.0	ug/kg	11.7	39.0
51-28-5	2,4-Dinitrophenol	U	779	ug/kg	148	779
132-64-9	Dibenzofuran	U	390	ug/kg	77.9	390
84-66-2	Diethylphthalate	U	390	ug/kg	77.9	390
86-73-7	Fluorene	U	39.0	ug/kg	11.7	39.0
7005-72-3	4-Chlorophenylphenylether	U	390	ug/kg	77.9	390
534-52-1	2-Methyl-4,6-dinitrophenol	U	390	ug/kg	77.9	390
100-01-6	4-Nitroaniline	U	390	ug/kg	117	390
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	390	ug/kg	77.9	390
122-66-7	Azobenzene	U	390	ug/kg	77.9	390
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	390	ug/kg	77.9	390
118-74-1	Hexachlorobenzene	U	390	ug/kg	77.9	390
85-01-8	Phenanthrene	U	39.0	ug/kg	11.7	39.0
120-12-7	Anthracene	U	39.0	ug/kg	7.79	39.0
84-74-2	Di-n-butylphthalate	U	390	ug/kg	77.9	390
206-44-0	Fluoranthene	U	39.0	ug/kg	11.7	39.0
85-68-7	Butylbenzylphthalate	U	390	ug/kg	77.9	390
56-55-3	Benzo(a)anthracene	U	39.0	ug/kg	11.7	39.0
91-94-1	3,3'-Dichlorobenzidine	U	390	ug/kg	117	390
218-01-9	Chrysene	U	39.0	ug/kg	11.7	39.0
117-81-7	bis(2-Ethylhexyl)phthalate	U	390	ug/kg	77.9	390
117-84-0	Di-n-octylphthalate	U	390	ug/kg	77.9	390
205-99-2	Benzo(b)fluoranthene	U	39.0	ug/kg	11.7	39.0
207-08-9	Benzo(k)fluoranthene	U	39.0	ug/kg	11.7	39.0
50-32-8	Benzo(a)pyrene	U	39.0	ug/kg	11.7	39.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	39.0	ug/kg	11.7	39.0
53-70-3	Dibenzo(a,h)anthracene	U	39.0	ug/kg	11.7	39.0
191-24-2	Benzo(ghi)perylene	U	39.0	ug/kg	11.7	39.0
120-82-1	1,2,4-Trichlorobenzene	U	390	ug/kg	77.9	390

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	272	ug/kg		JA
1135-24-6	2-Propenoic acid, 3-(4-hydroxy-3-methoxy	9.6	355	ug/kg	97	NJ

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

SDG Number: 10-1567
Lab Sample ID: 246330005

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.1
Analyst: NAG1
Aliquot: 30 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 14.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8307
Batch ID: 950447
Run Date: 02/16/2010 21:01
Prep Date: 02/09/2010 11:07
Data File: s6b1623.d

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
57-10-3	n-Hexadecanoic acid	9.94	170	ug/kg	97	NJ
	Unknown	11.52	354	ug/kg		J
	Unknown	11.54	243	ug/kg		J
506-12-7	Heptadecanoic acid	11.58	199	ug/kg	96	NJ
301-02-0	9-Octadecanamide, (Z)-	11.62	332	ug/kg	93	NJ
	Unknown	11.69	283	ug/kg		J
	Unknown	11.92	205	ug/kg		J
5155-70-4	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	12.09	983	ug/kg	94	NJ
112-85-6	Docosanoic acid	12.42	436	ug/kg	97	NJ
557-59-5	Tetracosanoic acid	13.41	320	ug/kg	91	NJ
112-84-5	13-Docosenamide, (Z)-	13.52	913	ug/kg	97	NJ
	Unknown	15.46	211	ug/kg		J
	Unknown	15.68	1760	ug/kg		J
	Unknown	15.95	242	ug/kg		J
	Unknown	15.95	251	ug/kg		J
	Unknown	16.44	3280	ug/kg		J
	Unknown	16.68	944	ug/kg		J
83-46-5	.beta.-Sitosterol	17.55	242	ug/kg	84	NJ
	Unknown	18.19	262	ug/kg		J

GEL Laboratories LLC

Data file : /chem/MSD6.i/s021610.b/s6b1623.d
 Lab Smp Id: 246330005 Client Smp ID: RE15-10-8307
 Inj Date : 16-FEB-2010 21:01
 Operator : nag1 Inst ID: MSD6.i
 Smp Info : |246330005|950447|1|SVM|1|LANL
 Misc Info : |MSD8270_S|WBN100205-01
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
 Meth Date : 16-Feb-2010 17:39 nat00999 Quant Type: ISTD
 Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
 Als bottle: 17
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1567.sub
 Target Version: 3.50
 Processing Host: hpc1p1

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	14.44140	% 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	4.645	4.650	(1.000)	288352	40.0000	
* 29 Naphthalene-d8	136	5.914	5.917	(1.000)	1126534	40.0000	
* 46 Acenaphthene-d10	164	7.777	7.779	(1.000)	625877	40.0000	
* 67 Phenanthrene-d10	188	9.382	9.382	(1.000)	1083029	40.0000	
* 91 Chrysene-d12	240	12.333	12.338	(1.000)	715209	40.0000	
* 98 Perylene-d12	264	14.555	14.557	(1.000)	394921	40.0000	
\$ 3 2-Fluorophenol	112	3.509	3.496	(0.755)	373882	51.7772	2020
\$ 5 Phenol-d5	99	4.278	4.273	(0.921)	489576	53.7177	2090
\$ 20 Nitrobenzene-d5	82	5.180	5.185	(0.876)	215531	27.0460	1050
\$ 39 2-Fluorobiphenyl	172	7.040	7.040	(0.905)	436699	27.0748	1050
\$ 60 2,4,6-Tribromophenol	329	8.623	8.625	(1.109)	99006	54.1974	2110
\$ 81 p-Terphenyl-d14	244	11.087	11.087	(0.899)	418683	36.3001	1410

ION RATIO REPORT

SV REPORT

Data file: s6b1623.d

Report Date: 02/17/2010 07:11

Lab. ID: 246330005

SampleType: SAMPLE

Injection Date: 16-FEB-2010 21:01

Operator: nagl

Instrument: MSD6.i

Sample Info: |246330005|950447|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01

Comment:

Method used: /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1567

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
1 N-Methyl-N-nitrosomethylamine				CAS#: 62-75-9		
74	14993	2.27	2.55	80-120	100	(T)
42	1121	2.26	2.55	58-118	7	(QT)
43	27245	2.25	2.55	7- 67	182	(QT)

4 Aniline				CAS#: 62-53-3		
66	25719	4.28	4.34	80-120	100	(T)
93	7009	4.32	4.34	216-276	27	(Q)

6 Phenol				CAS#: 108-95-2		
94	30947	4.03	4.29	80-120	100	(T)
66	5874	4.02	4.29	15- 75	19	(T)
65	24479	4.03	4.29	0- 30	79	(QT)

17 N-Nitrosodipropylamine				CAS#: 621-64-7		
70	30838	5.18	5.02	80-120	100	(T)
42	19031	5.18	5.02	43-103	62	(T)

22 Isophorone				CAS#: 78-59-1		
82	215531	5.18	5.44	80-120	100	(T)
138	6134	5.91	5.44	0- 49	3	(T)

25 bis(2-Chloroethoxy)methane				CAS#: 111-91-1		
93	27327	5.93	5.64	80-120	100	(T)
123	317	5.93	5.64	0- 45	1	(T)
95	11998	5.93	5.64	2- 62	44	(T)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
40 2-Chloronaphthalene				CAS#: 91-58-7		
162	19897	7.38	7.18	80-120	100	(T)
164	1223	7.38	7.18	3- 63	6	(T)
127	1512	7.38	7.18	9- 69	8	(QT)

42 o-Nitroaniline				CAS#: 88-74-4		
65	10983	7.20	7.29	80-120	100	(T)
92	1751	7.20	7.29	34- 94	16	(QT)
138	293	7.20	7.29	79-139	3	(QT)

43 Dimethylphthalate				CAS#: 131-11-3		
163	111689	7.78	7.47	80-120	100	(T)
164	625877	7.78	7.47	0- 40	560	(QT)

45 Acenaphthylene				CAS#: 208-96-8		
152	91135	7.20	7.63	80-120	100	(T)
151	95080	7.20	7.63	0- 50	104	(QT)
153	8636	7.19	7.63	0- 43	9	(T)

48 2,4-Dinitrophenol				CAS#: 51-28-5		
184	120	8.29	7.85	80-120	100	(T)
154	105	8.29	7.85	19- 79	88	(QT)

50 2,4-Dinitrotoluene				CAS#: 121-14-2		
165	83528	7.78	7.98	80-120	100	(T)
89	652	7.77	7.98	45-105	1	(QT)
63	1089	7.78	7.98	24- 84	1	(QT)

52 4-Nitrophenol				CAS#: 100-02-7		
139	220	7.64	7.91	80-120	100	(T)
109	340	7.64	7.91	39- 99	154	(QT)
65	470	7.64	7.90	63-123	213	(QT)

53 Fluorene				CAS#: 86-73-7		
166	6646	8.62	8.37	80-120	100	(T)
165	6735	8.63	8.37	62-122	101	(T)
167	2058	8.62	8.37	0- 44	31	(T)

55 2-Methyl-4,6-dinitrophenol				CAS#: 534-52-1		
198	210	8.61	8.42	80-120	100	(T)
105	812	8.62	8.42	12- 72	386	(QT)
51	243	8.61	8.42	27- 87	116	(QT)

56 p-Nitroaniline				CAS#: 100-01-6		
138	123	8.44	8.39	80-120	100	()
108	192	8.58	8.39	48-108	156	(QT)
92	170	8.43	8.39	17- 77	138	(Q)

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

Data file : /chem/MSD6.i/s021610.b/s6b1623.d
 Lab Smp Id: 246330005 Client Smp ID: RE15-10-8307
 Inj Date : 16-FEB-2010 21:01
 Operator : nagl Inst ID: MSD6.i
 Smp Info : |246330005|950447|1|SVM|1|LANL
 Misc Info : |MSD8270 S|WBN100205-01
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
 Meth Date : 16-Feb-2010 17:39 nat00999 Quant Type: ISTD
 Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
 Als bottle: 17
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1567.sub
 Target Version: 3.50
 Processing Host: hpc1p1

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	14.44140	% moisture

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	4.645	1750346	40.000
* 67 Phenanthrene-d10	9.382	2725449	40.000
* 91 Chrysene-d12	12.333	2541258	40.000
* 98 Perylene-d12	14.555	1099301	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====

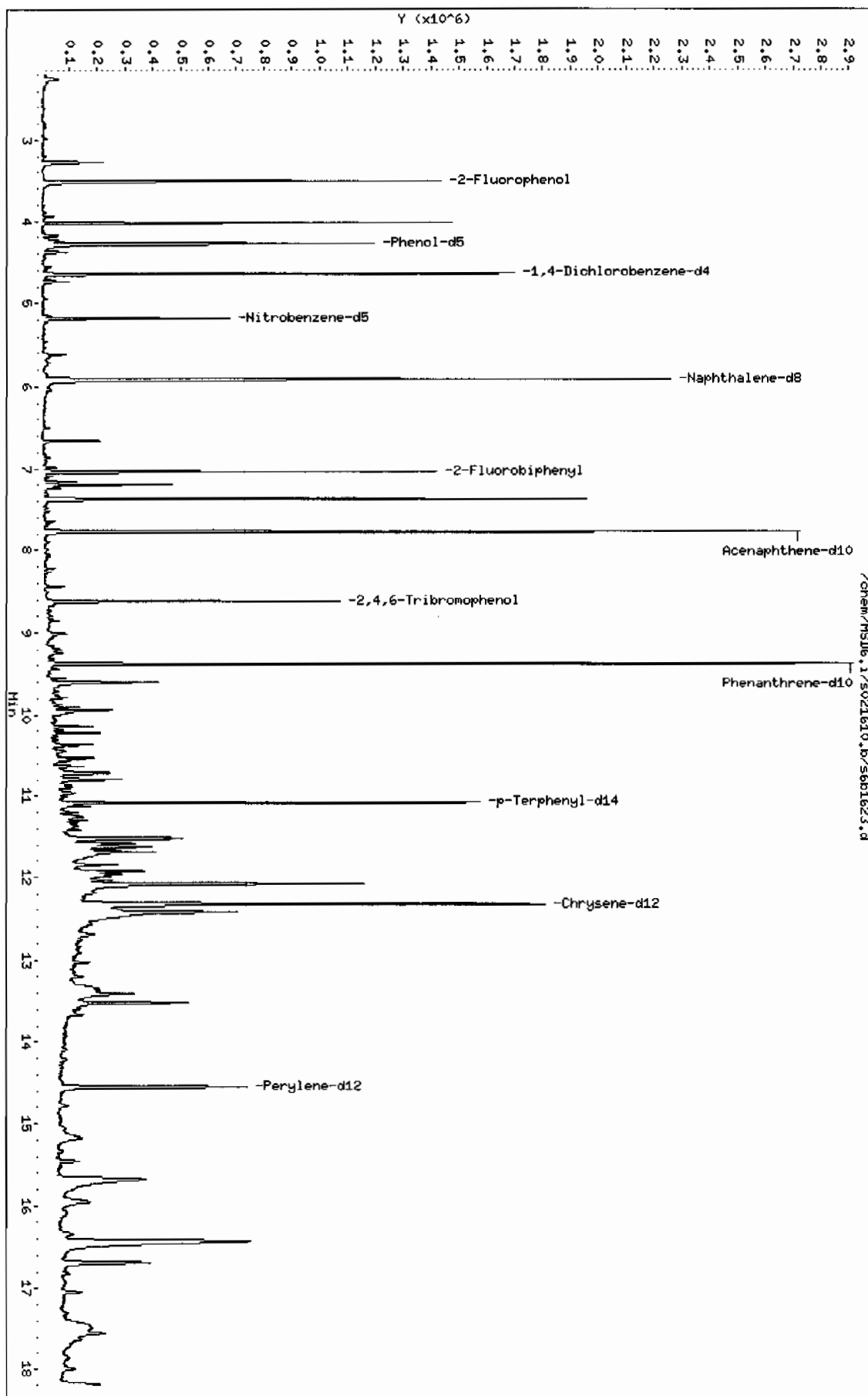
RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate					CAS #:		
3.272	304991	6.96984204	272	0		0	10
2-Propenoic acid, 3-(4-hydroxy-3-methoxy					CAS #: 1135-24-6		
9.599	621421	9.12026617	355	97	NIST05.L	52319	67
n-Hexadecanoic acid					CAS #: 57-10-3		
9.943	297373	4.36439336	170	97	NIST05.L	96235	67
Unknown					CAS #:		
11.517	577193	9.08514769	354	0		0	91
Unknown					CAS #:		
11.535	396598	6.24253924	243	0		0	91
Heptadecanoic acid					CAS #: 506-12-7		
11.584	325266	5.11976953	199	96	NIST05.L	105614	91
9-Octadecenamide, (Z)-					CAS #: 301-02-0		
11.624	541099	8.51702171	332	93	NIST05.L	112655	91
Unknown					CAS #:		
11.691	461864	7.26984745	283	0		0	91
Unknown					CAS #:		
11.925	335062	5.27395986	205	0		0	91
1-Phenanthrenecarboxylic acid, 1,2,3,4,4					CAS #: 5155-70-4		
12.088	1603050	25.2323803	983	94	NIST05.L	125035	91
Docosanoic acid					CAS #: 112-85-6		
12.424	710219	11.1790180	436	97	NIST05.L	147935	91
Tetracosanoic acid					CAS #: 557-59-5		
13.408	522074	8.21756114	320	91	NIST05.L	160633	91
13-Docosenamide, (2)-					CAS #: 112-84-5		
13.518	643971	23.4320223	913	97	NIST05.L	146308	98
Unknown					CAS #:		
15.457	149032	5.42278265	211	0		0	98
Unknown					CAS #:		
15.681	1243471	45.2458904	1760	0		0	98

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Unknown					CAS #:		
15.948	170685	6.21066034	242	0		0	98
Unknown					CAS #:		
15.954	176854	6.43513052	251	0		0	98
Unknown					CAS #:		
16.435	2316919	84.3051511	3280	0		0	98
Unknown					CAS #:		
16.685	666137	24.2385548	944	0		0	98
.beta.-Sitosterol					CAS #: 83-46-5		
17.551	170552	6.20585209	242	84	NIST05.L	174400	98
Unknown					CAS #:		
18.191	184843	6.72584899	262	0		0	98

Data File: /chem/MSD6.i/s021610.b/s6b1623.d
Date: 16-FEB-2010 21:01
Client ID: RE15-10-8307
Sample Info: 1246330005195044711SVH11.LANL
Volume Injected (uL): 0.5
Column phase: J&W DB-SHS

Instrument: MSD6.i
Operator: nag1
Column diameter: 0.20

Page 1



Date : 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: MSD6.i

Sample Info: I246330005195044711SVMI1ILANL

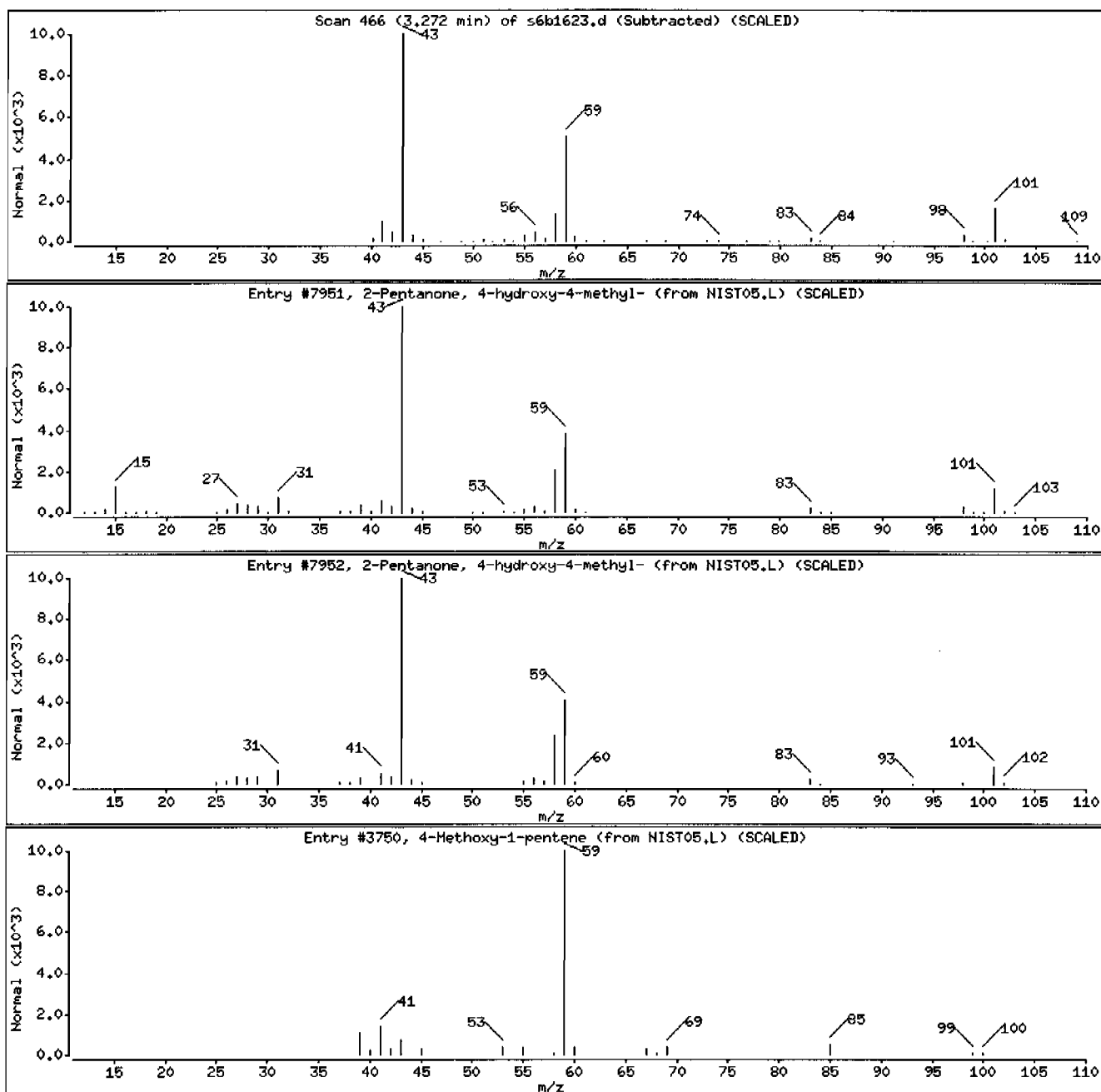
Volume Injected (uL): 0.5

Operator: nag1

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	56	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	50	C6H12O2	116
4-Methoxy-1-pentene	98386-09-5	NIST05.L	3750	25	C6H12O	100



Date: 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: MSD6.i

Sample Info: 1246330005195044711ISVM11LANL

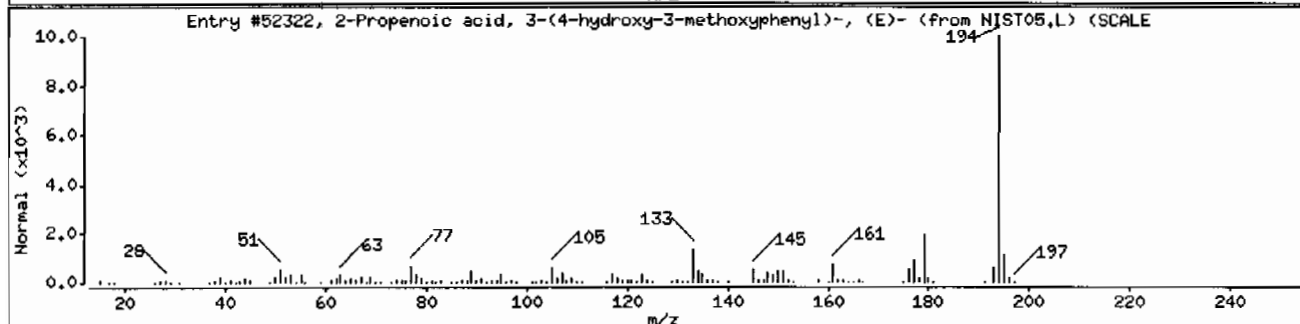
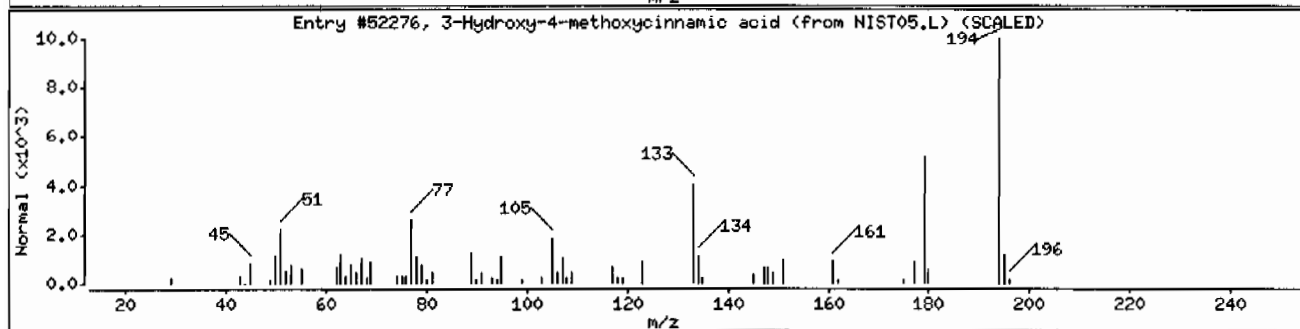
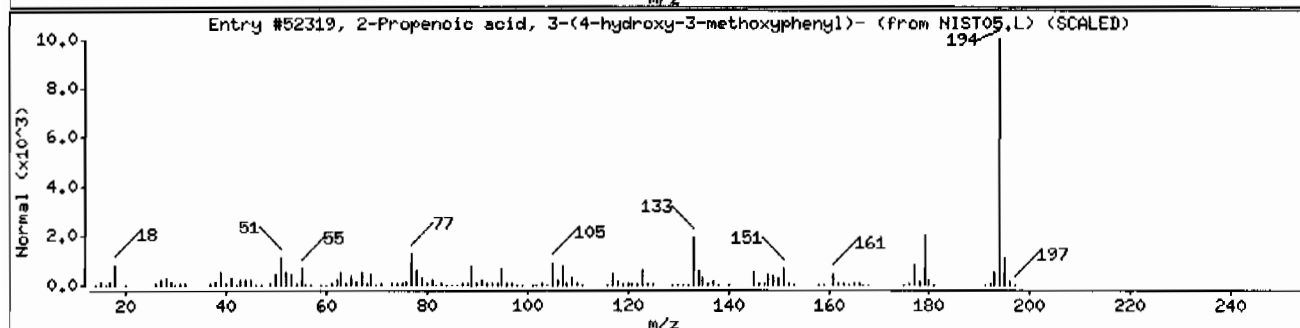
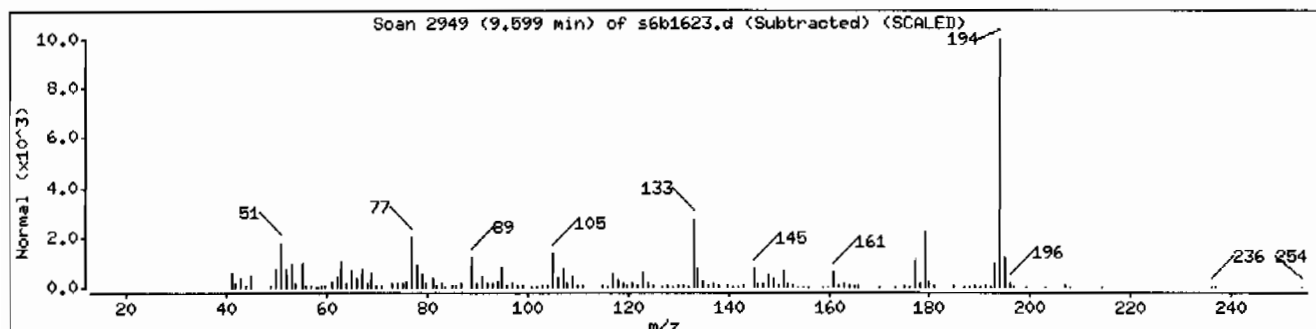
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Propenoic acid, 3-(4-hydroxy-3-methoxy	1135-24-6	NIST05.L	52319	97	C10H10O4	194
3-Hydroxy-4-methoxycinnamic acid	537-73-5	NIST05.L	52276	90	C10H10O4	194
2-Propenoic acid, 3-(4-hydroxy-3-methoxy	537-98-4	NIST05.L	52322	89	C10H10O4	194



Date: 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: MSD6.i

Sample Info: I246330005195044711SVMI1ILANL

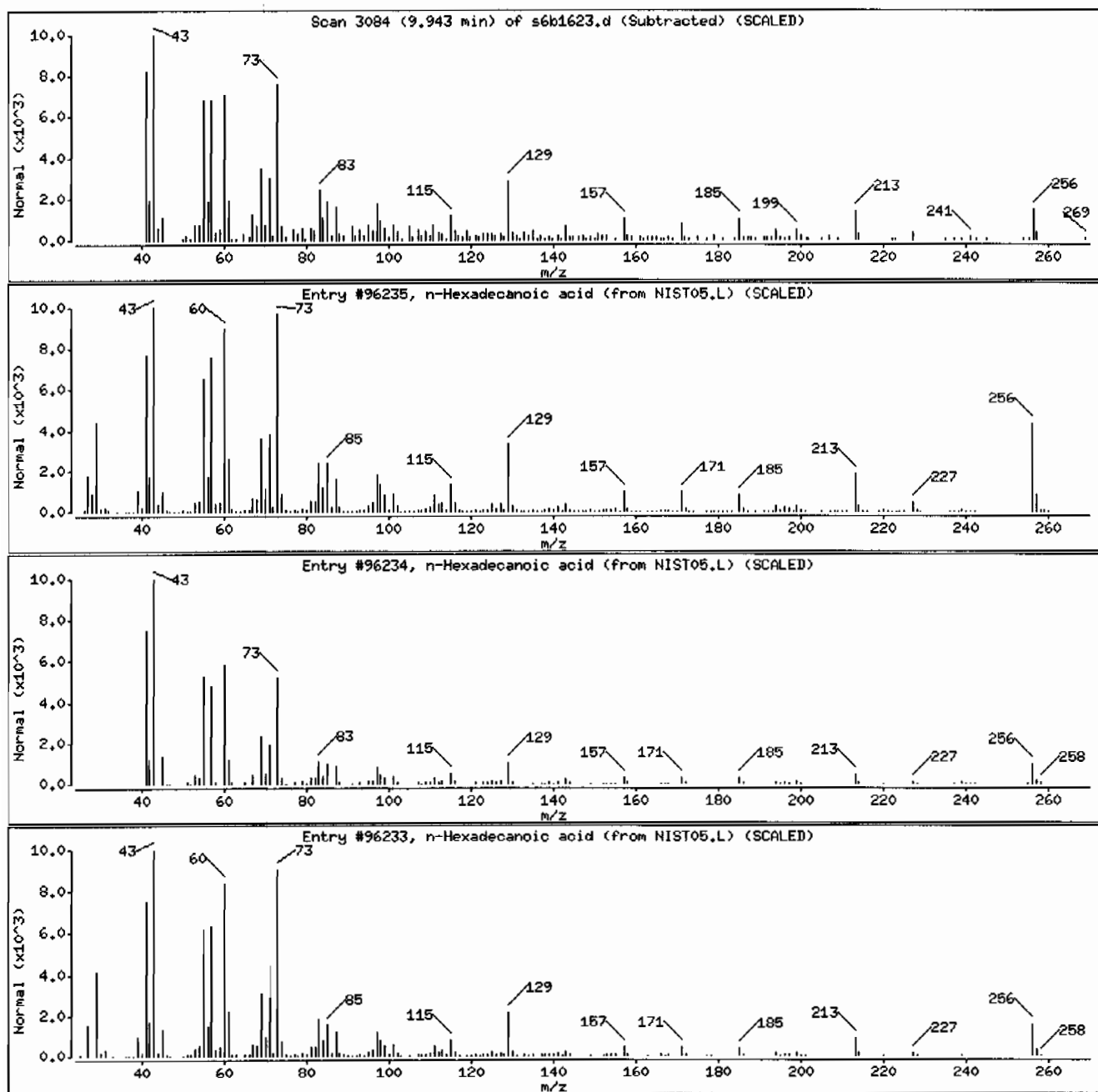
Volume Injected (uL): 0.5

Operator: nag1

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	97	C16H32O2	256
n-Hexadecanoic acid	57-10-3	NIST05.L	96234	96	C16H32O2	256
n-Hexadecanoic acid	57-10-3	NIST05.L	96233	95	C16H32O2	256



Date : 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: MSD6.i

Sample Info: 1246330005195044711SVMI11LANL

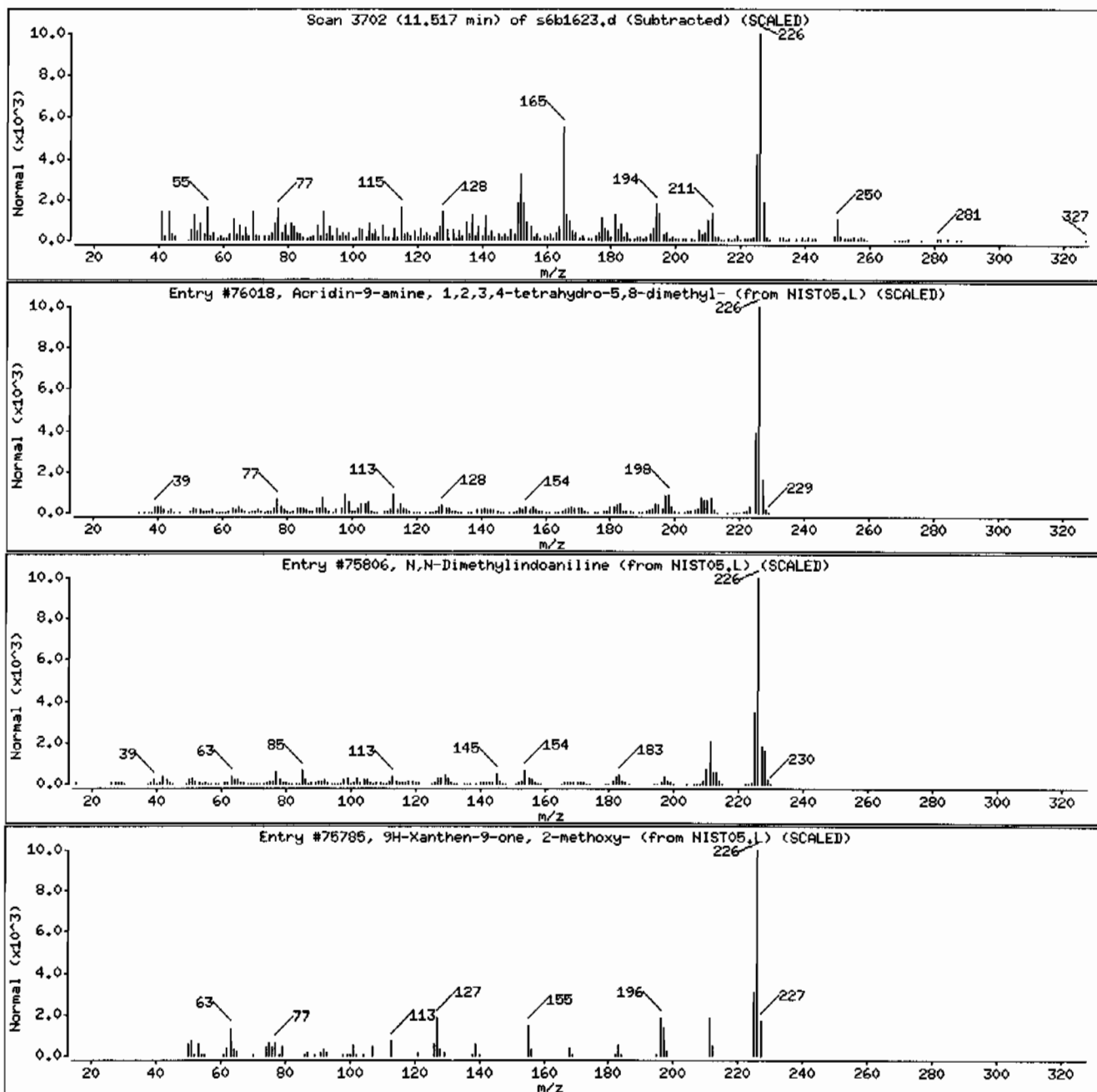
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Acridin-9-amine, 1,2,3,4-tetrahydro-5,8-	297758-19-1	NIST05.L	76018	58	C15H18N2	226
N,N-Dimethylindoline	2150-58-5	NIST05.L	75806	55	C14H14N2O	226
9H-Xanthen-9-one, 2-methoxy-	1214-20-6	NIST05.L	75785	55	C14H10O3	226



Date : 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: MSD6.i

Sample Info: I246330005195044711SVMI11LANL

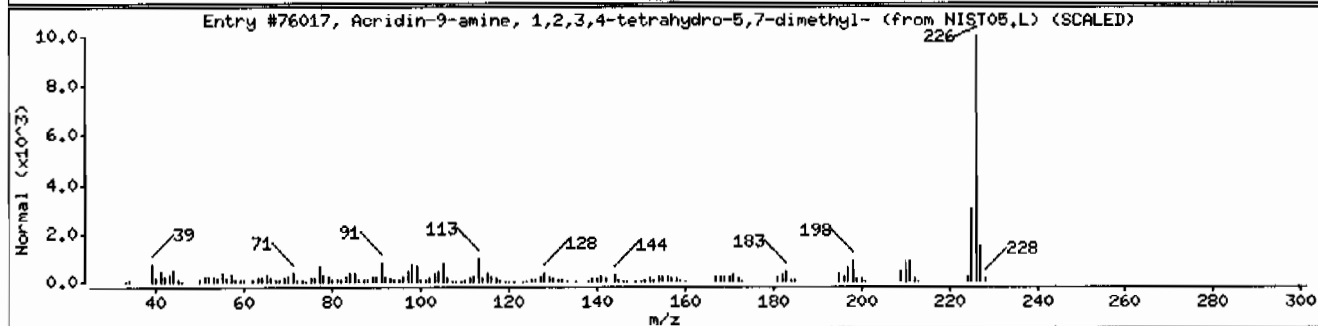
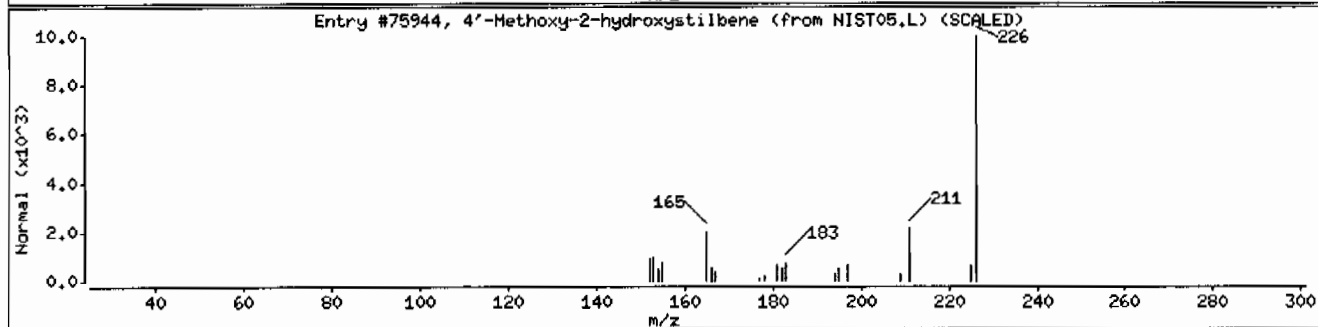
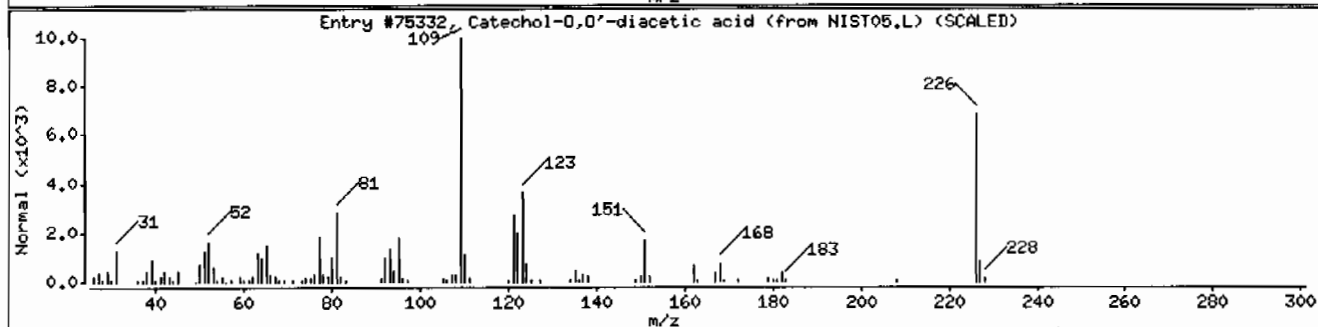
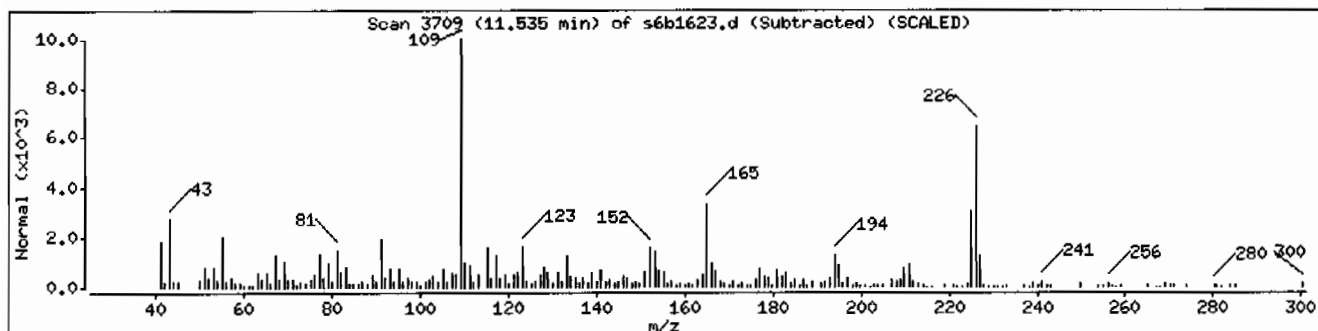
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Catechol-0,0'-diacetic acid	5411-14-3	NIST05.L	75332	49	C10H10O6	226
4'-Methoxy-2-hydroxystilbene	1000147-93-1	NIST05.L	75944	43	C15H14O2	226
Acridin-9-amine, 1,2,3,4-tetrahydro-5,7-	1000300-57-6	NIST05.L	76017	35	C15H18N2	226



Date: 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: MSD6.1

Sample Info: 1246330005195044711SVMI11LANL

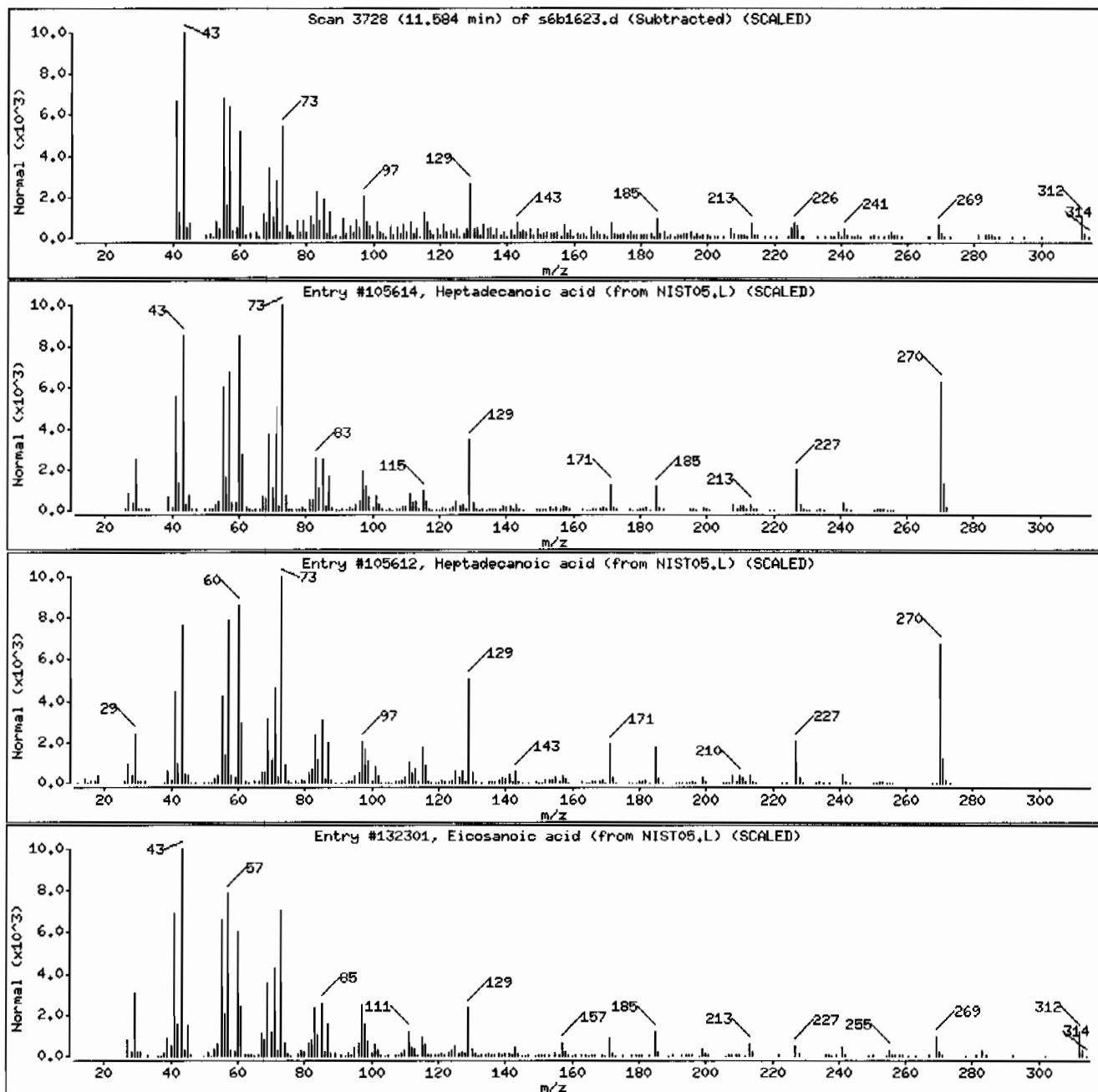
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heptadecanoic acid	506-12-7	NIST05.L	105614	96	C17H34O2	270
Heptadecanoic acid	506-12-7	NIST05.L	105612	96	C17H34O2	270
Eicosanoic acid	506-30-9	NIST05.L	132301	96	C20H40O2	312



Date: 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: MSD6.i

Sample Info: 1246330005195044711SVH11ILANL

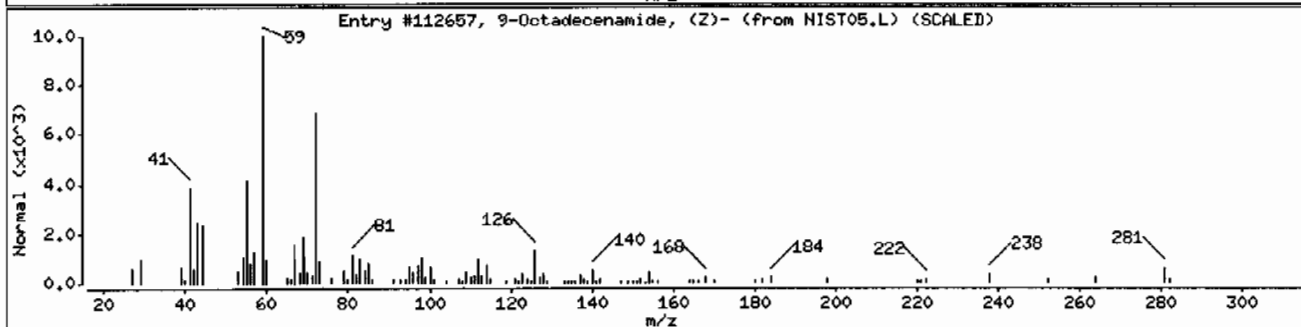
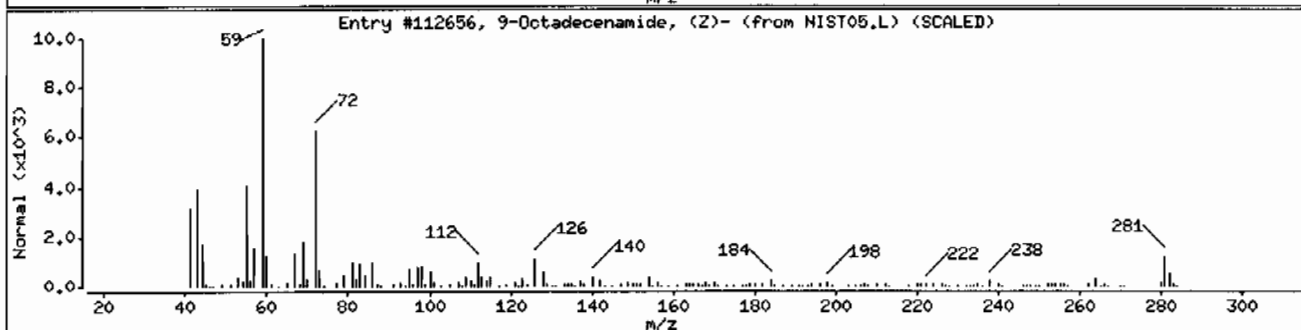
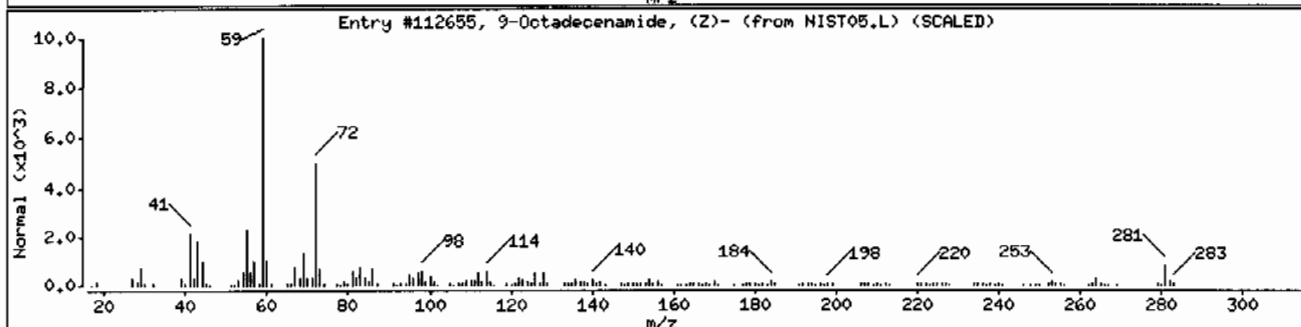
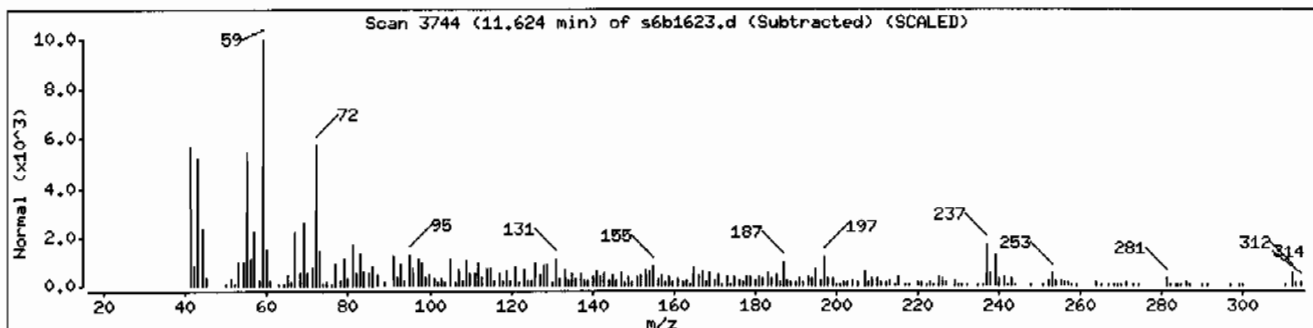
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112655	93	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112656	83	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112657	53	C18H35NO	281



Date : 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: MSD6.i

Sample Info: 1246330005195044711SVH111LANL

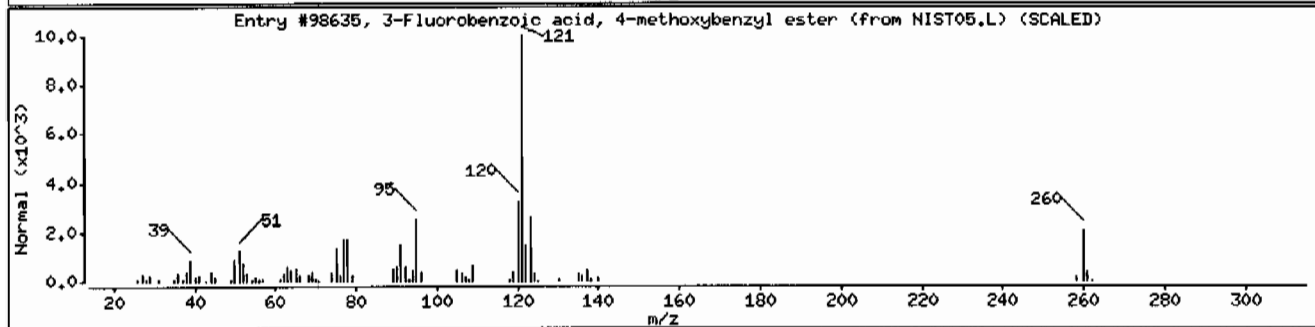
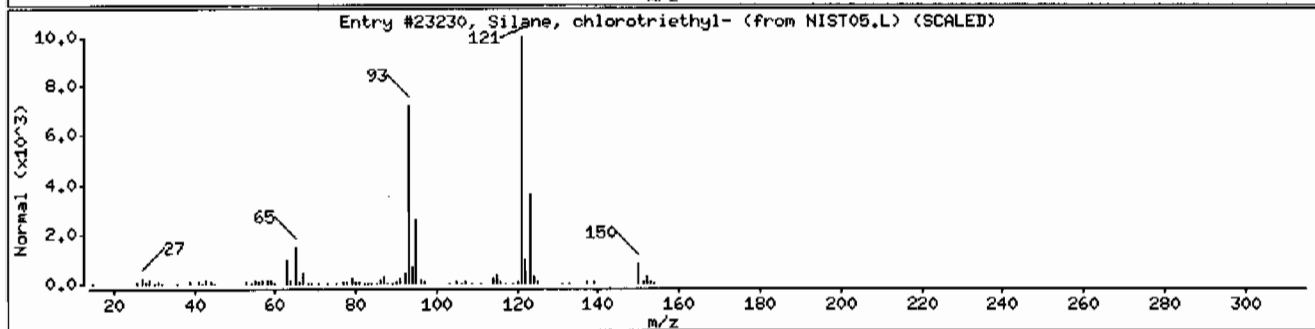
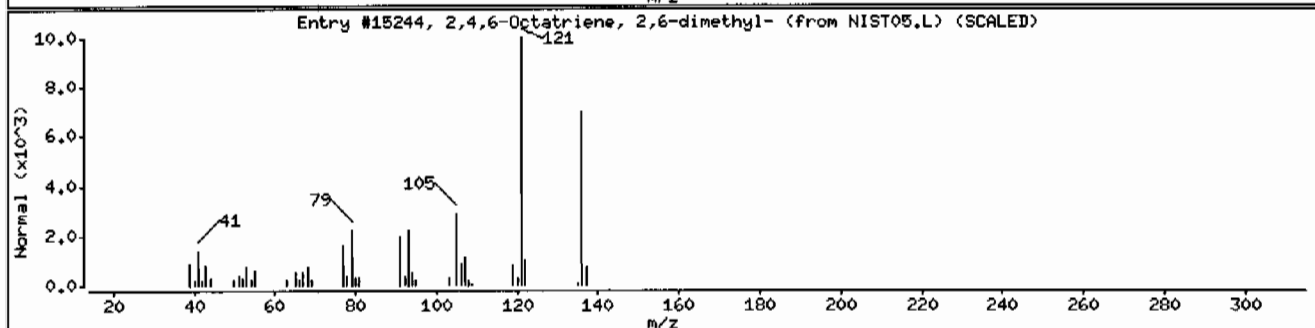
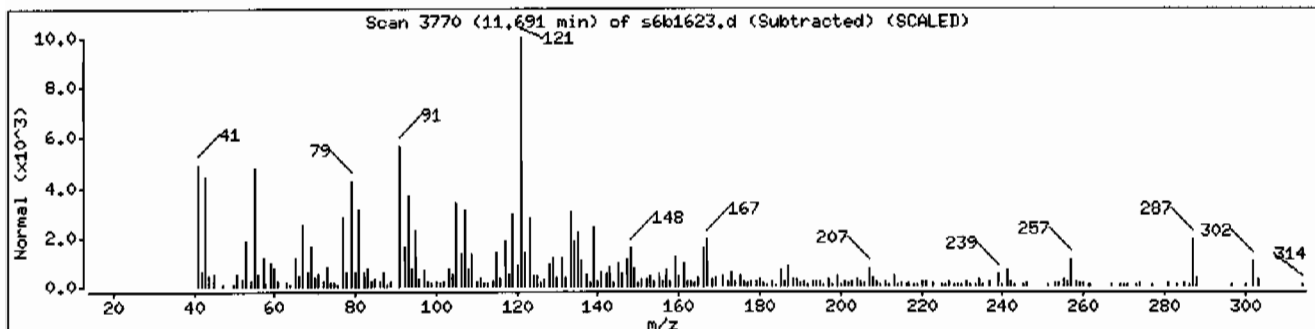
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2,4,6-Octatriene, 2,6-dimethyl-	673-84-7	NIST05.L	15244	38	C10H16	136
Silane, chlorotriethyl-	994-30-9	NIST05.L	23230	38	C6H15ClSi	150
3-Fluorobenzoic acid, 4-methoxybenzyl es	1000279-93-0	NIST05.L	98635	30	C15H13FO3	260



Date: 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: HSD6.i

Sample Info: 1246330005195044711SVH111LANL

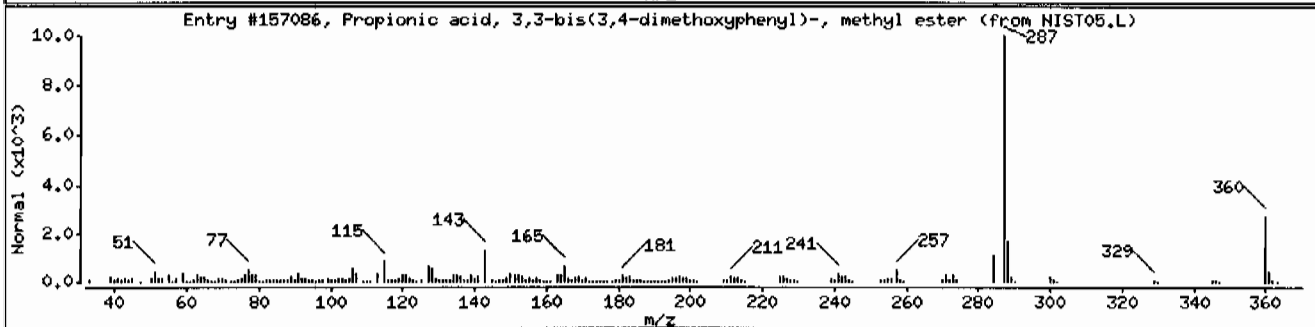
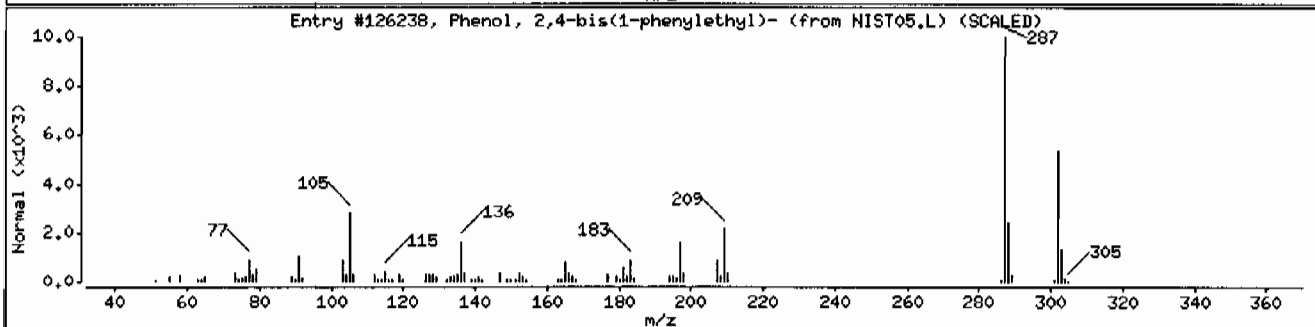
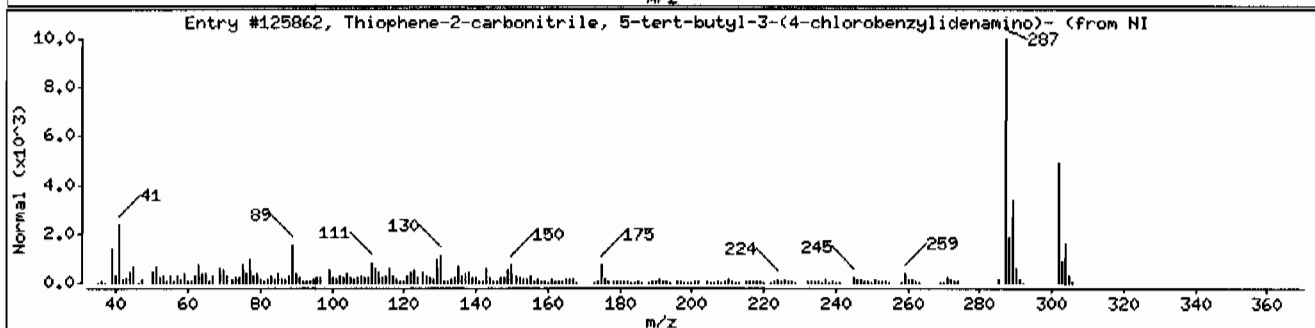
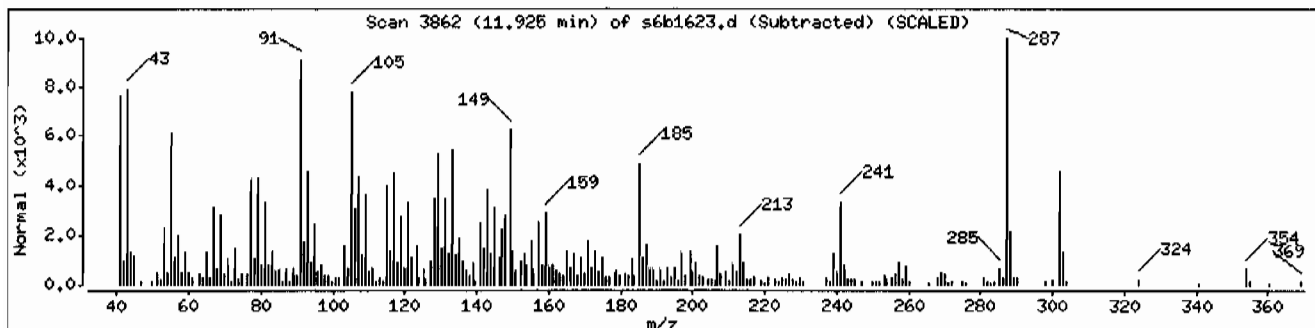
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Thiophene-2-carbonitrile, 5-tert-butyl-3	1000268-00-9	NIST05.L	125862	55	C ₁₆ H ₁₅ CIN ₂ S	302
Phenol, 2,4-bis(1-phenylethyl)-	2769-94-0	NIST05.L	126238	48	C ₂₂ H ₂₂ O	302
Propionic acid, 3,3-bis(3,4-dimethoxyph	1000310-08-0	NIST05.L	157086	47	C ₂₀ H ₂₄ O ₆	360



Date: 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: MSD6.i

Sample Info: 1246330005195044711SVH111LANL

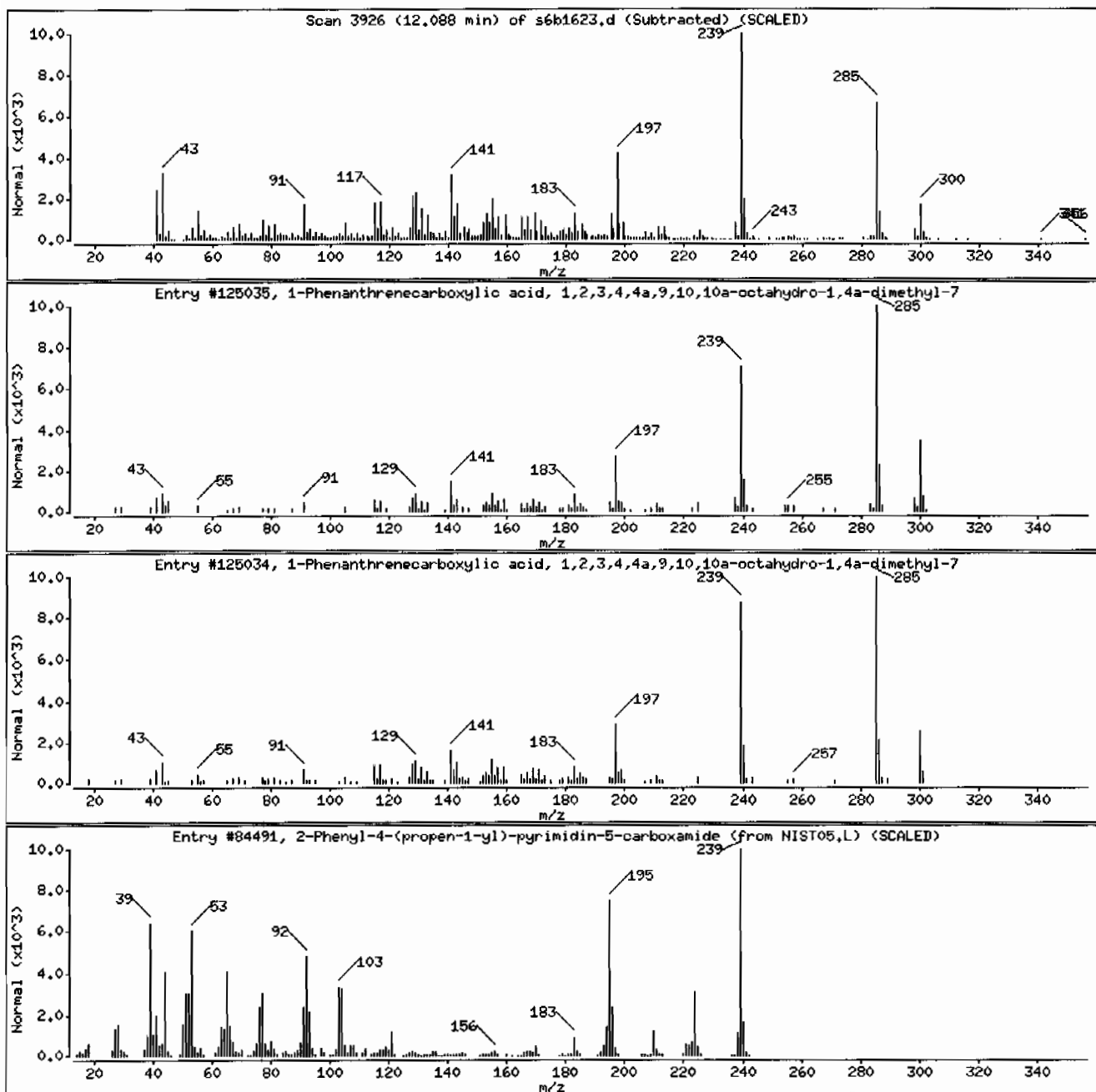
Volume Injected (uL): 0.5

Operator: nag1

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	5155-70-4	NIST05.L	125035	94	C20H28O2	300
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1740-19-8	NIST05.L	125034	94	C20H28O2	300
2-Phenyl-4-(propen-1-yl)-pyrimidin-5-car	1000287-21-7	NIST05.L	84491	74	C14H13N3O	239



Date: 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: HSD6.i

Sample Info: 1246330005195044711SVMI11LANL

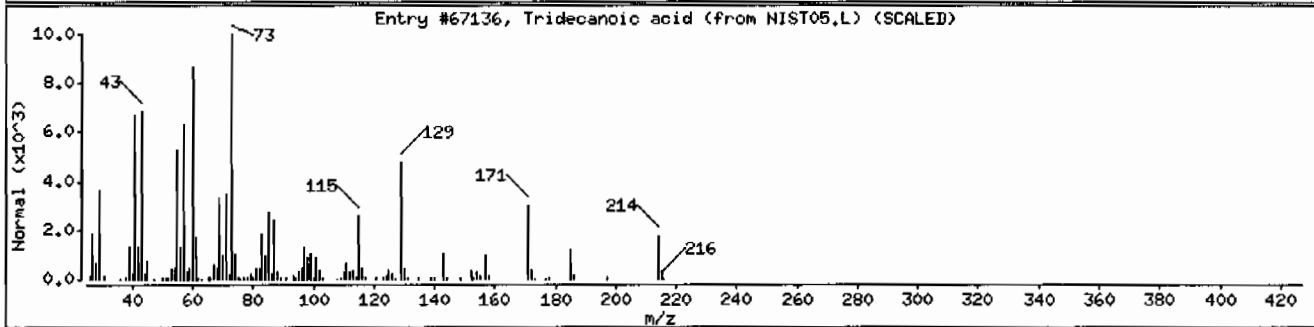
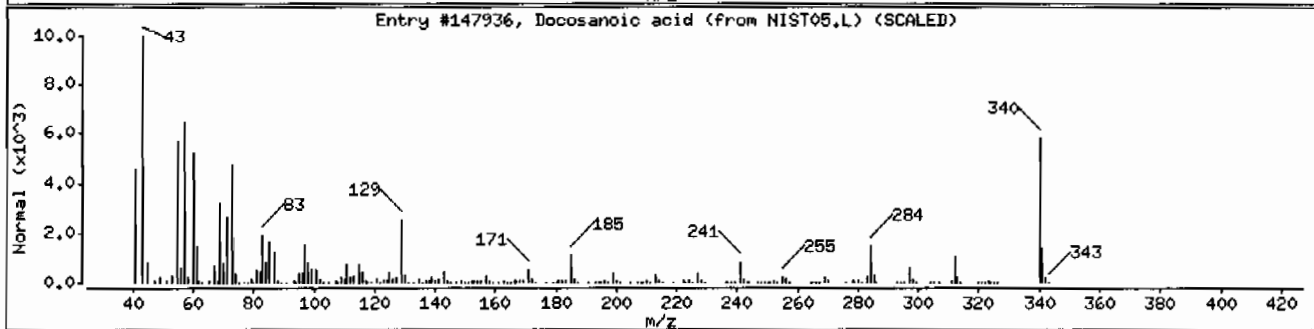
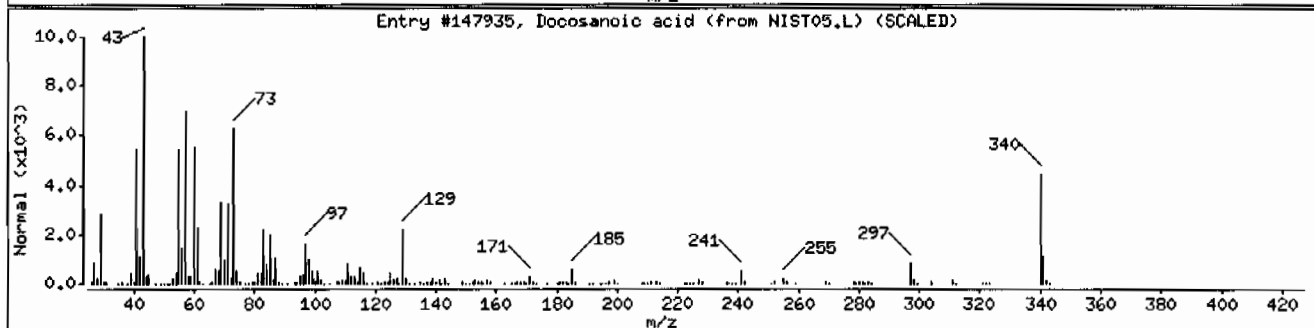
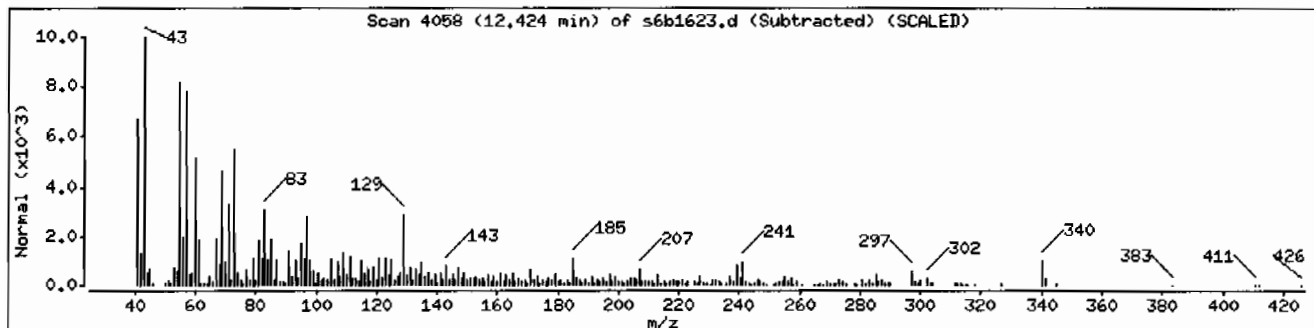
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Docosanoic acid	112-85-6	NIST05.L	147935	97	C22H44O2	340
Docosanoic acid	112-85-6	NIST05.L	147936	93	C22H44O2	340
Tridecanoic acid	638-53-9	NIST05.L	67136	46	C13H26O2	214



Date: 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: MSD6.1

Sample Info: 1246330005195044711SVH111LANL

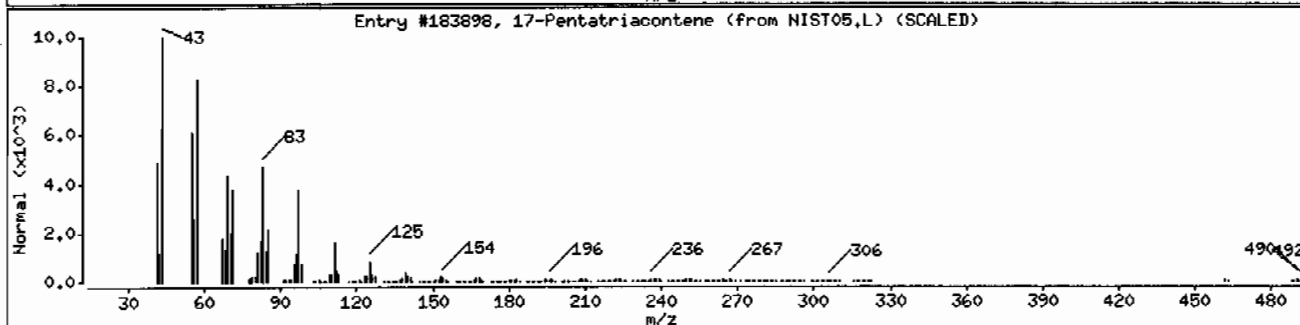
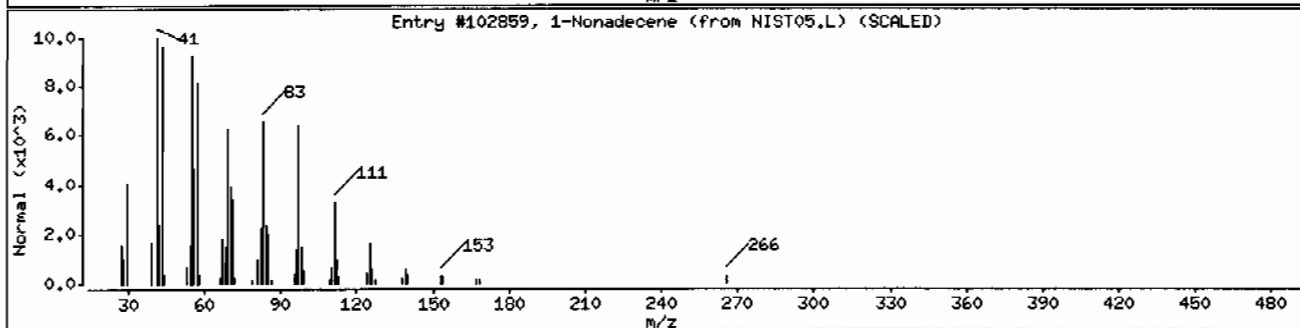
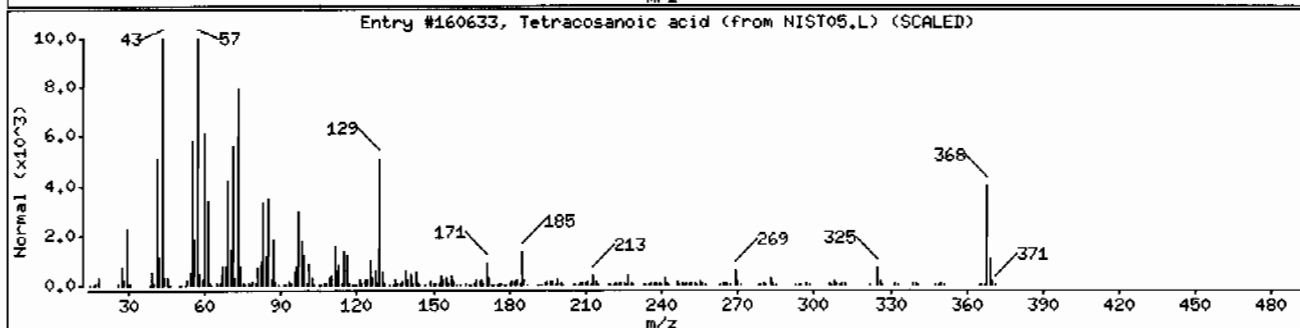
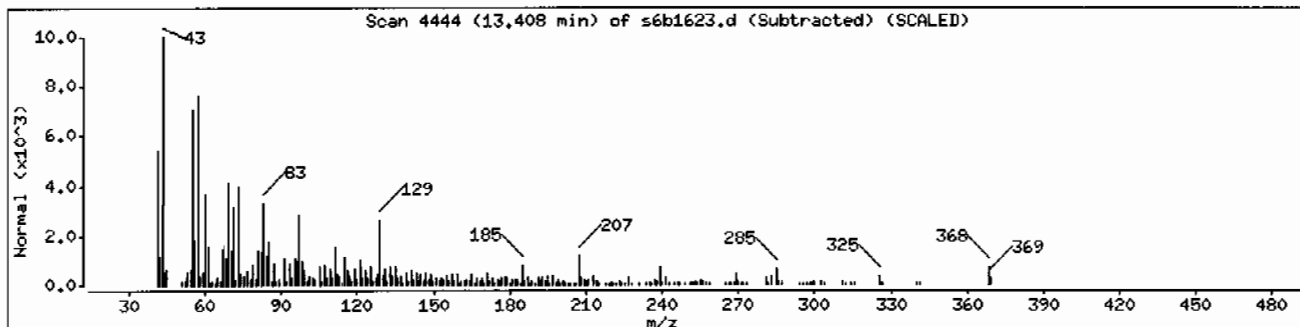
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetracosanoic acid	557-59-5	NIST05.L	160633	91	C ₂₄ H ₄₈ O ₂	368
1-Nonadecene	18435-45-5	NIST05.L	102859	86	C ₁₉ H ₃₈	266
17-Pentatriacontene	6971-40-0	NIST05.L	183898	80	C ₃₅ H ₇₀	491



Date : 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: MSD6.i

Sample Info: 1246330005195044711SVMI11LANL

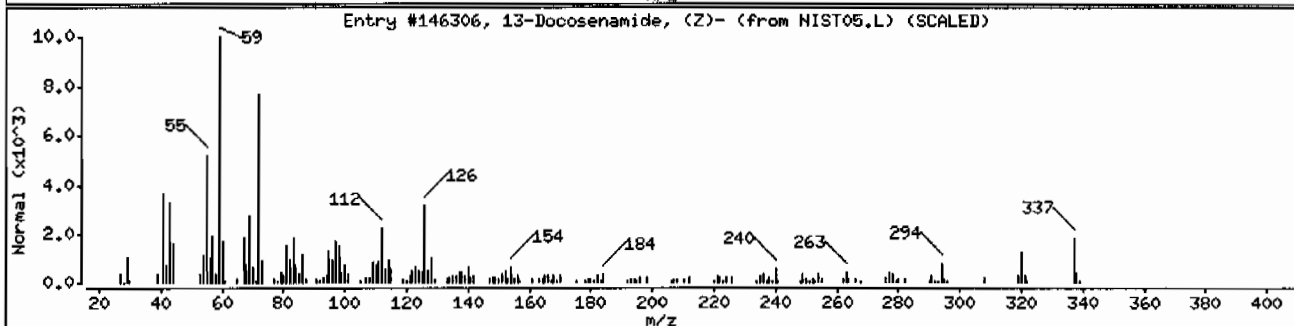
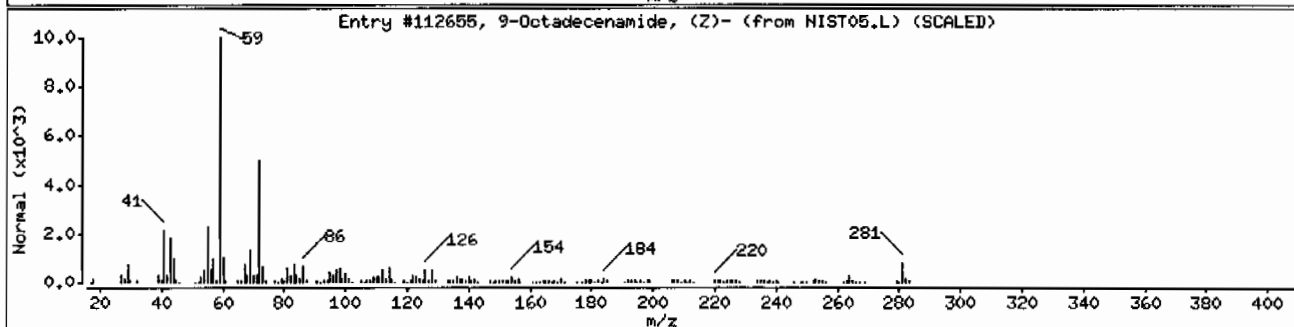
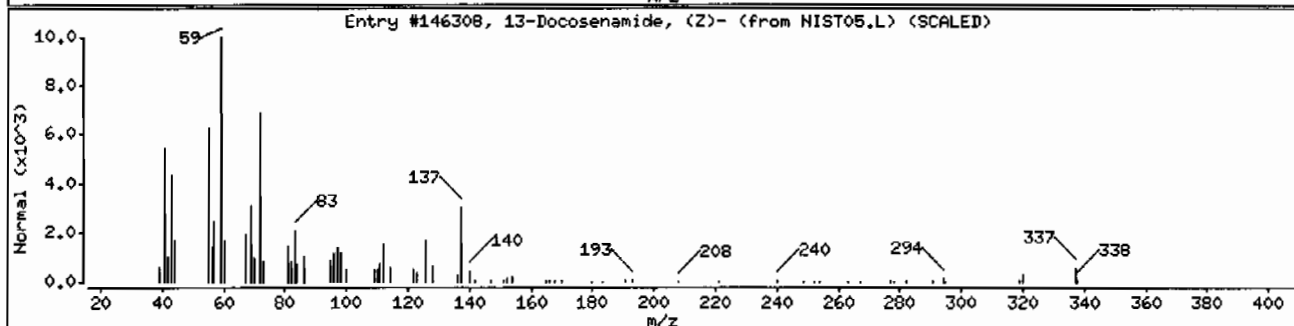
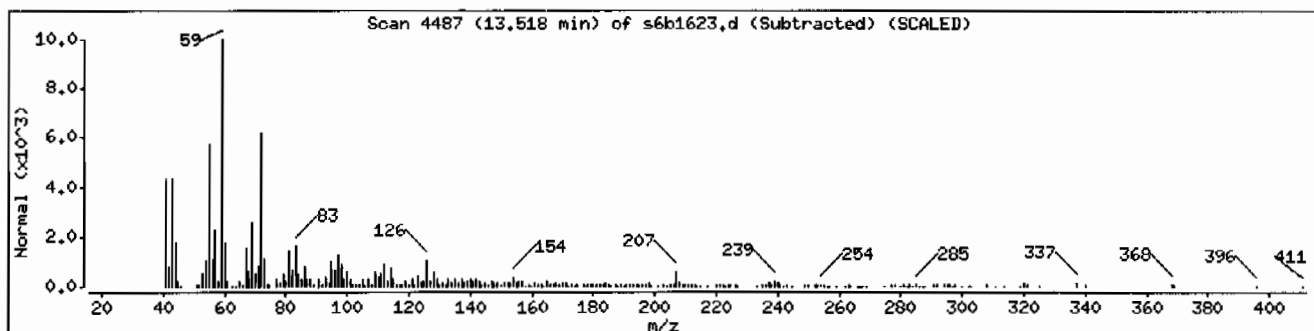
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
13-Docosenamide, (Z)-	112-84-5	NIST05.L	146308	97	C22H43NO	337
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112655	94	C18H35NO	281
13-Docosenamide, (Z)-	112-84-5	NIST05.L	146306	91	C22H43NO	337



Date : 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: MSD6.i

Sample Info: 1246330005195044711SVH111LANL

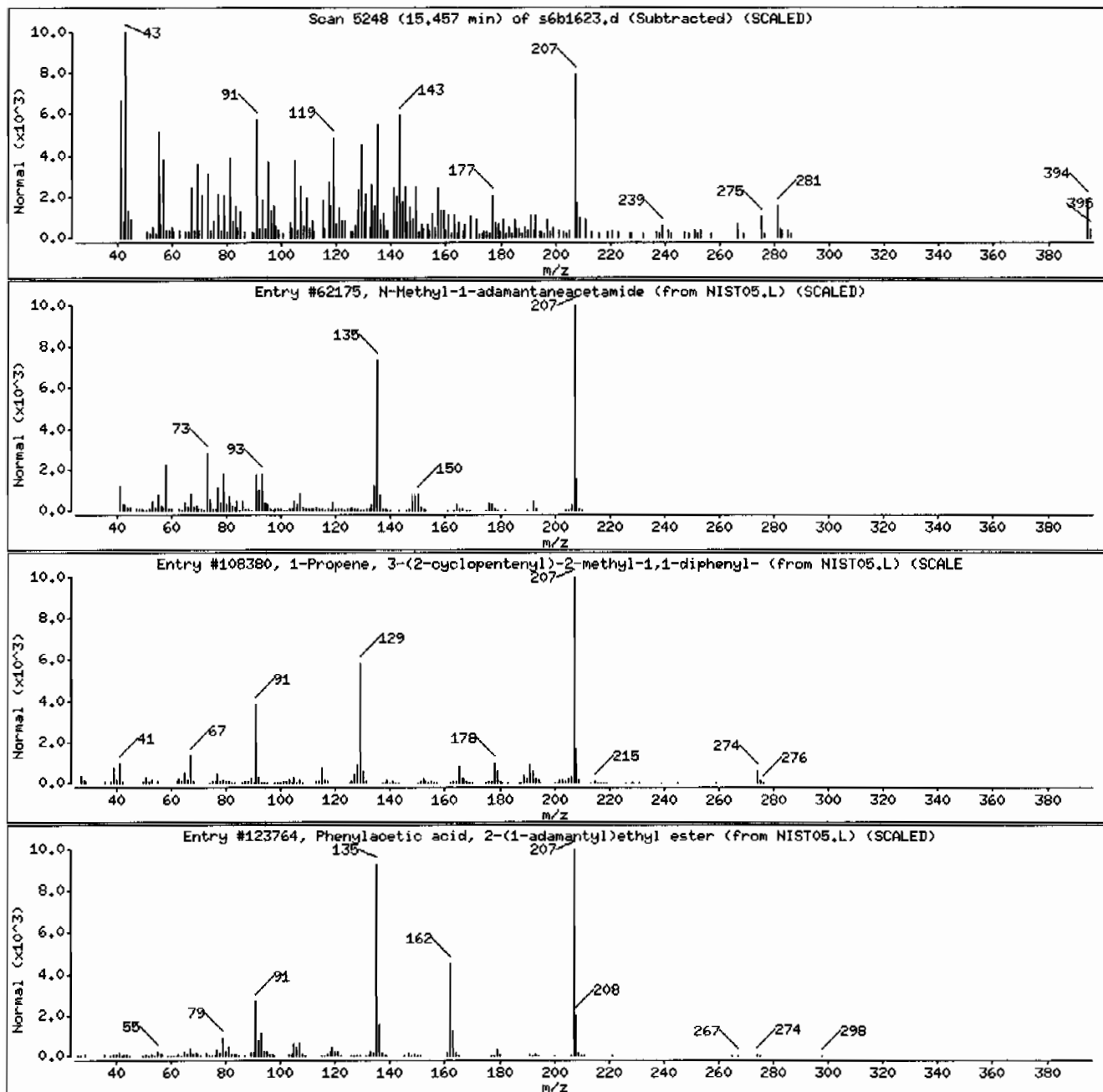
Volume Injected (uL): 0.5

Operator: nag1

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	42	C13H21NO	207
1-Propene, 3-(2-cyclopentenyl)-2-methyl-	1000154-23-3	NIST05.L	108380	27	C21H22	274
Phenylacetic acid, 2-(1-adamantyl)ethyl	1000282-91-2	NIST05.L	123764	27	C20H26O2	298



Date: 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: MSD6.i

Sample Info: 1246330005195044711ISVMI1ILANL

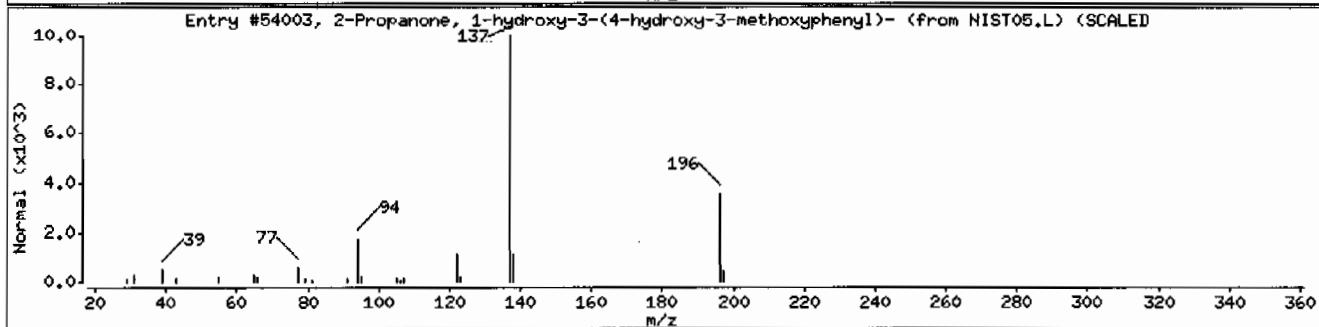
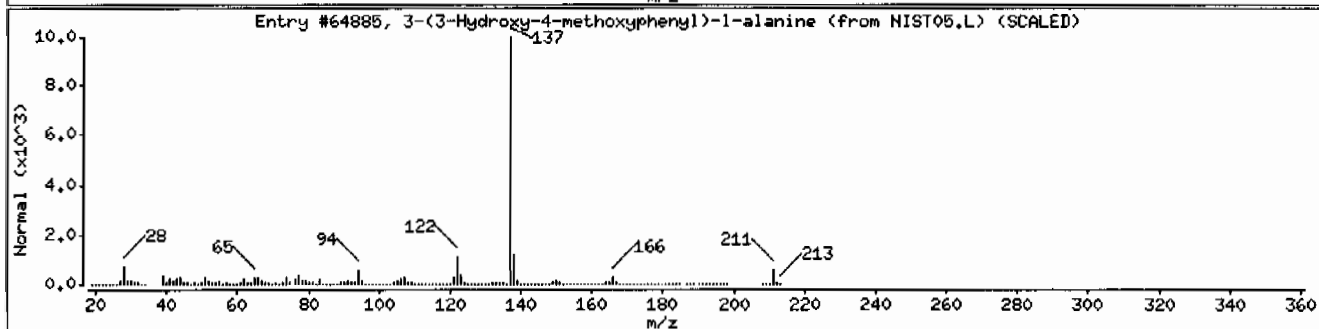
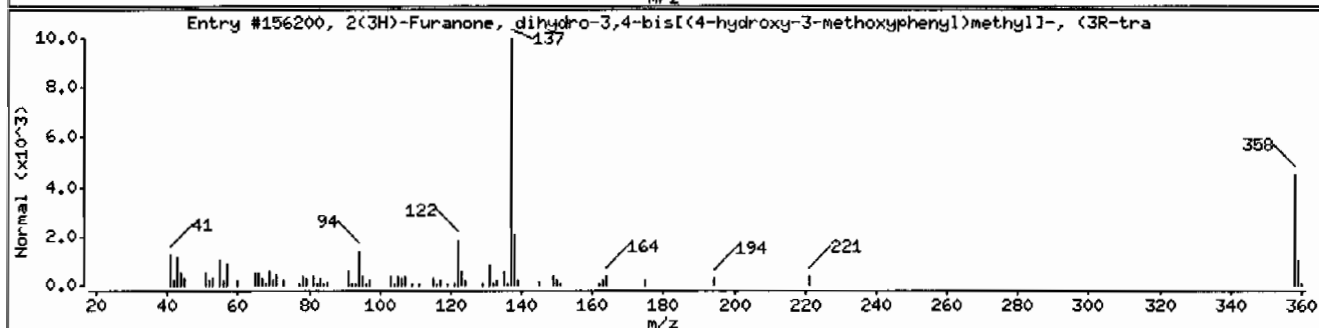
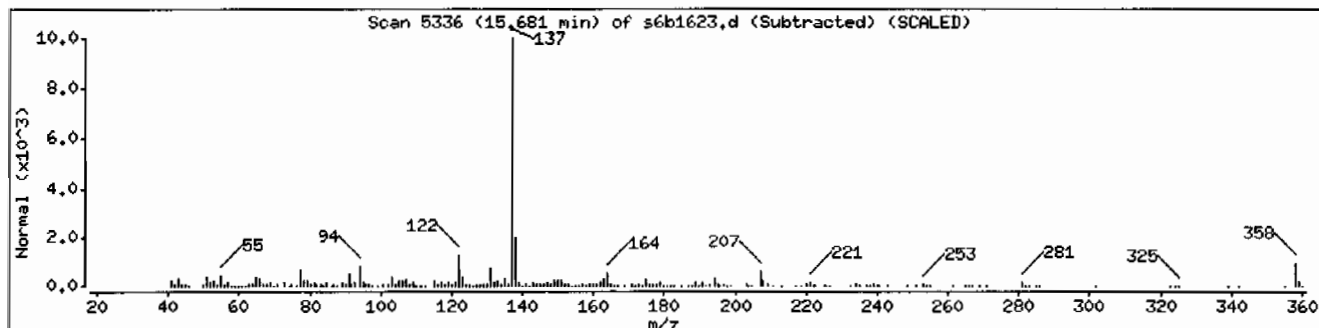
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2(3H)-Furanone, dihydro-3,4-bis[(4-hydro	580-72-3	NIST05.L	156200	70	C20H22O6	358
3-(3-Hydroxy-4-methoxyphenyl)-l-alanine	1000103-80-4	NIST05.L	64885	58	C10H13NO4	211
2-Propanone, 1-hydroxy-3-(4-hydroxy-3-me	4899-74-5	NIST05.L	54003	53	C10H12O4	196



Date : 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: MSD6.i

Sample Info: 1246330005195044711SVMI1|LANL

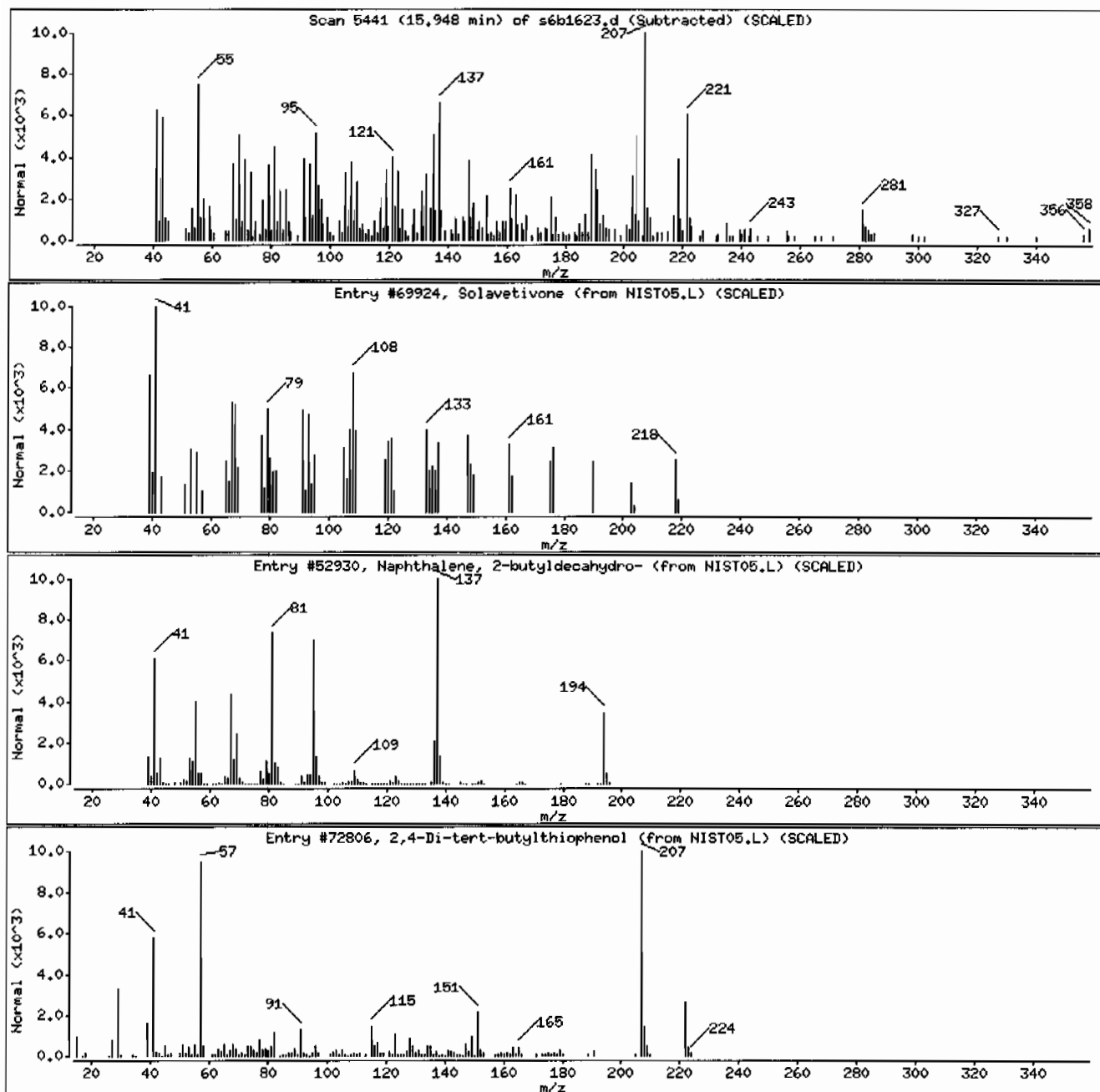
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Solavetivone	54878-25-0	NIST05.L	69924	49	C15H22O	218
Naphthalene, 2-butyldecahydro-	6305-52-8	NIST05.L	52930	25	C14H26	194
2,4-Di-tert-butylthiophenol	19728-43-9	NIST05.L	72806	15	C14H22S	222



Date: 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: MSD6.i

Sample Info: I246330005195044711SVH111LANL

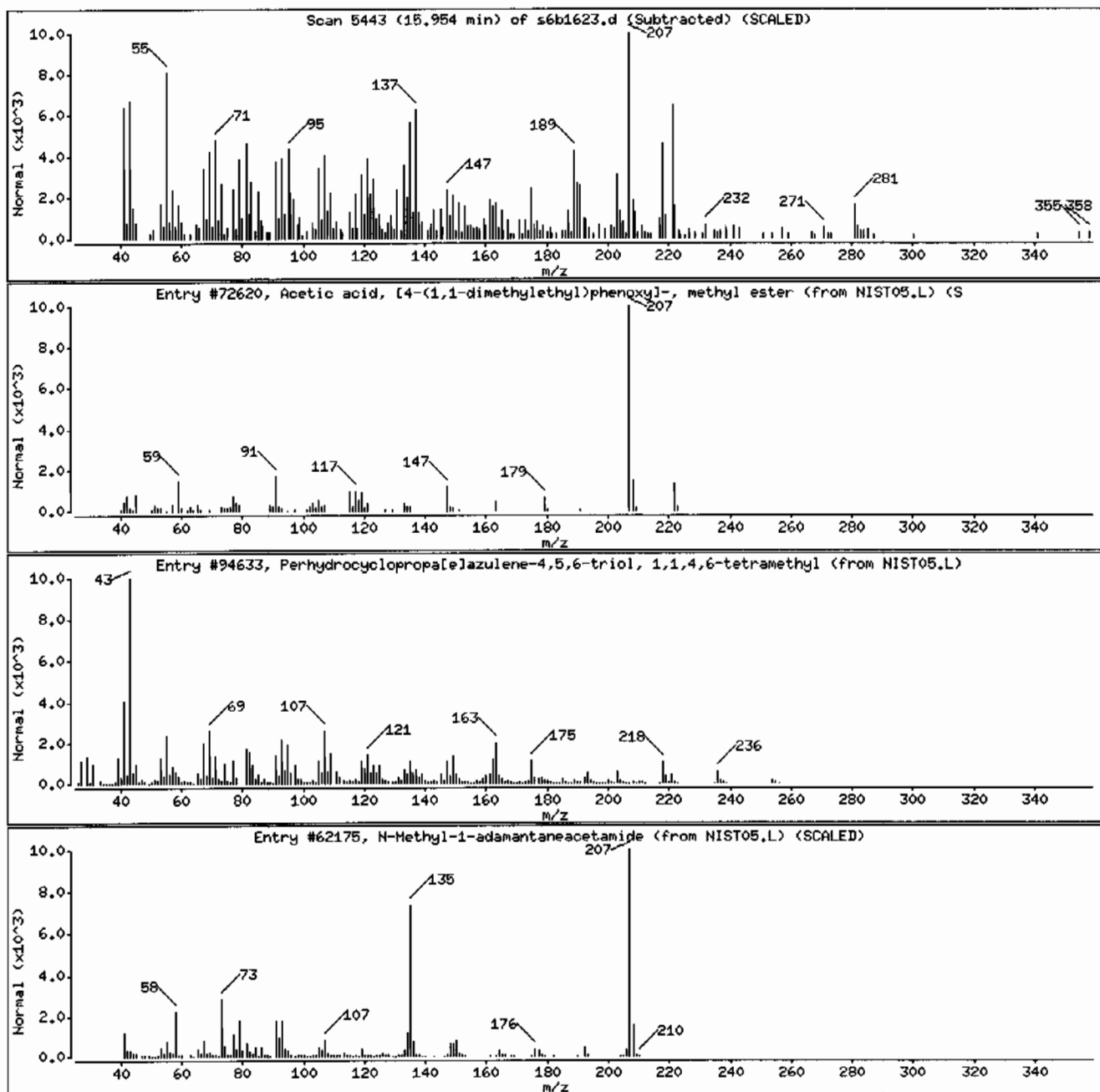
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Acetic acid, [4-(1,1-dimethylethyl)pheno	88530-52-3	NIST05.L	72620	25	C13H18O3	222
Perhydrocyclopropa[elazulene-4,5,6-triol	1000197-87-8	NIST05.L	94633	25	C15H26O3	254
N-Methyl-1-adamantaneacetamide	31897-93-5	NIST05.L	62175	18	C13H21NO	207



Date: 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: MSD6.i

Sample Info: 1246330005195044711SVMI11LANL

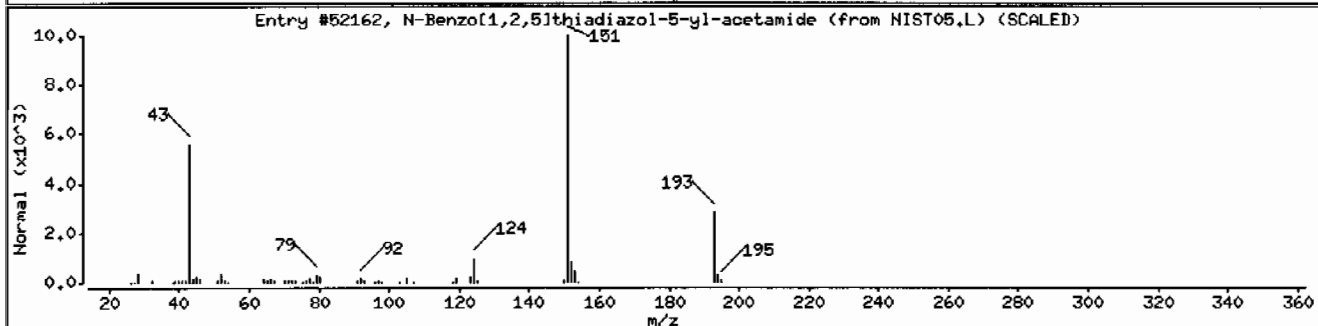
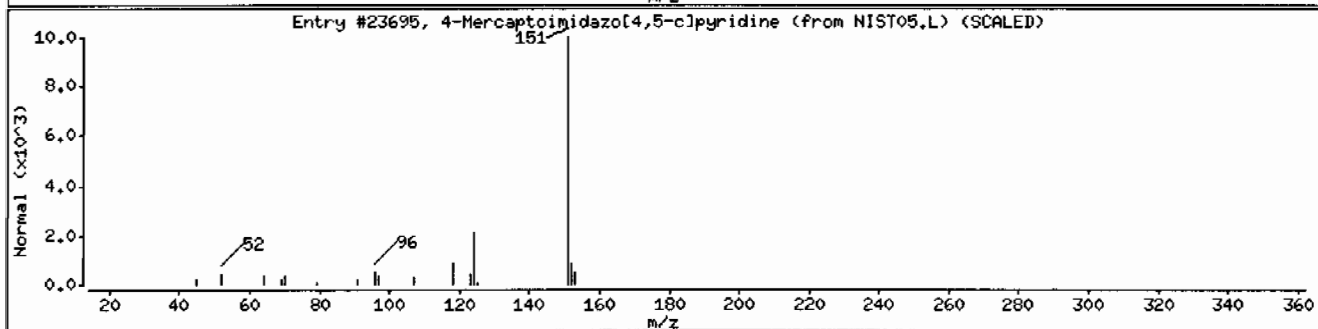
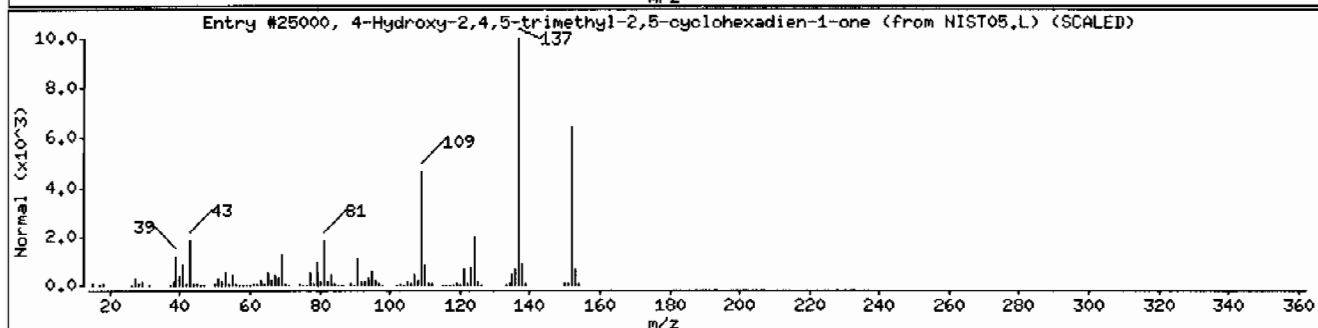
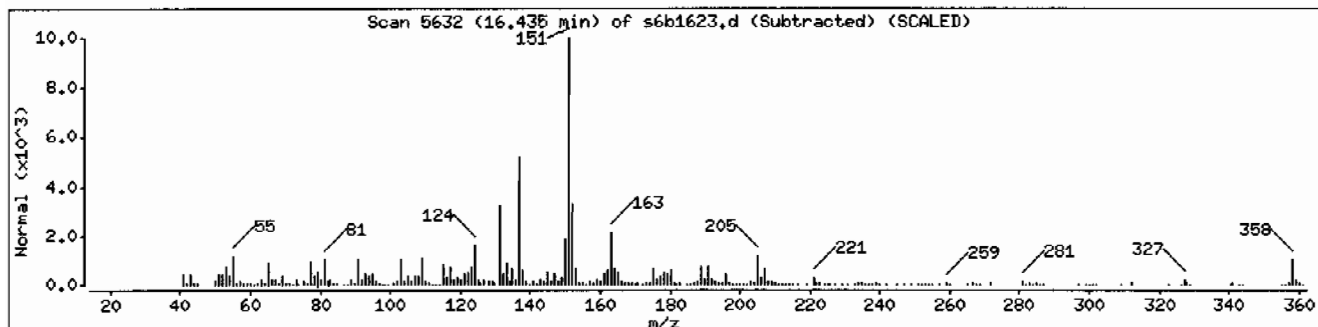
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
4-Hydroxy-2,4,5-trimethyl-2,5-cyclohexad	14353-72-1	NIST05.L	25000	35	C9H12O2	152
4-Mercaptoimidazo[4,5-c]pyridine	34550-51-1	NIST05.L	23695	30	C6H5N3S	151
N-Benzo[1,2,5]thiadiazol-5-yl-acetamide	21110-91-8	NIST05.L	52162	27	C8H7N3OS	193



Date: 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: HSD6.i

Sample Info: 1246330005195044711SVH11/LANL

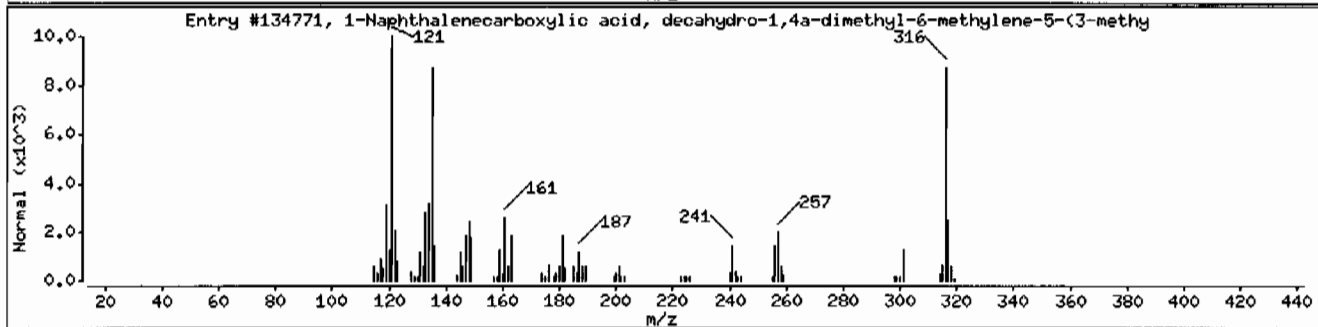
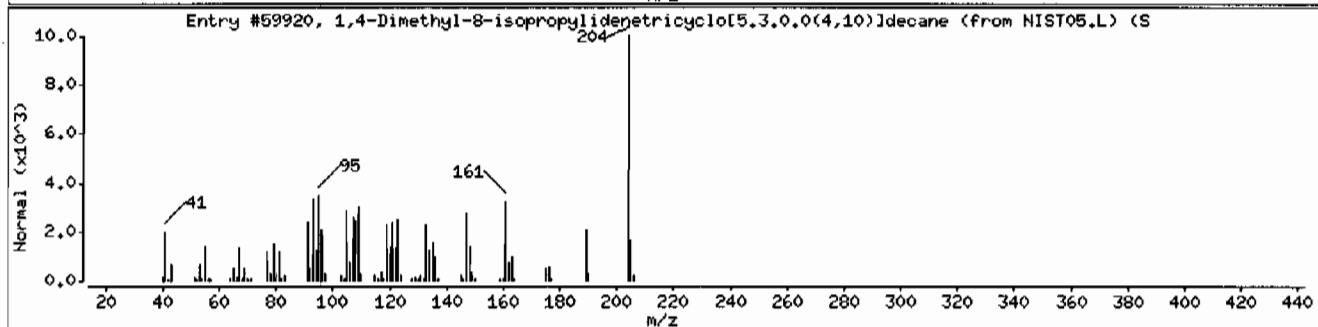
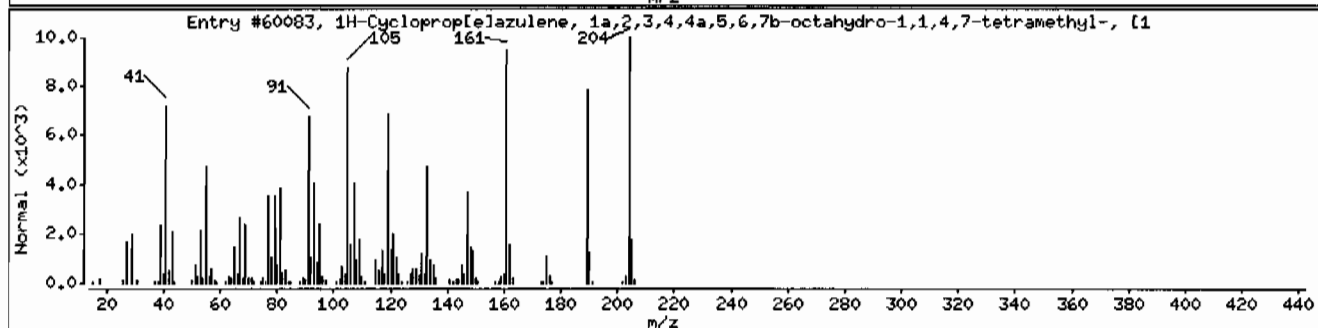
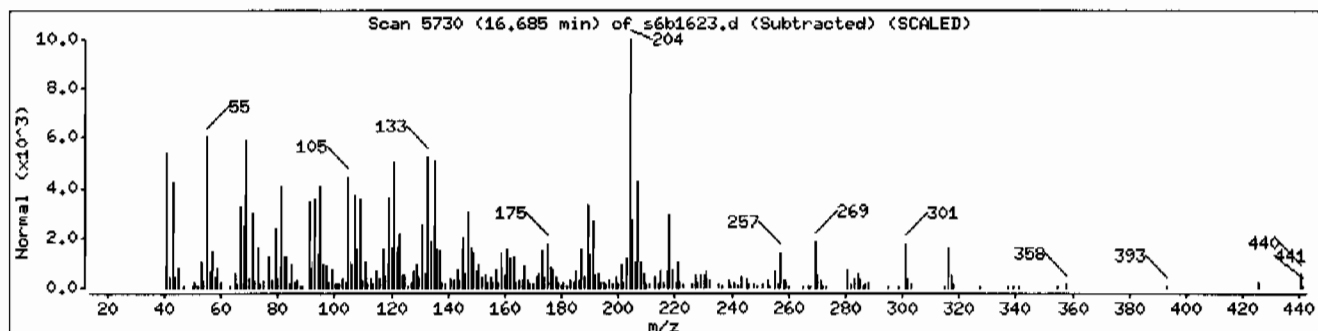
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1H-Cycloprop[elazulene, 1a,2,3,4,4a,5,6,	489-40-7	NIST05.L	60083	52	C15H24	204
1,4-Dimethyl-8-isopropylidenetricyclo[5,	1000140-07-7	NIST05.L	59920	50	C15H24	204
1-Naphthalenecarboxylic acid, decahydro-	1235-39-8	NIST05.L	134771	46	C21H32O2	316



Date : 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: MSD6.1

Sample Info: 1246330005195044711|SVH11|LANL

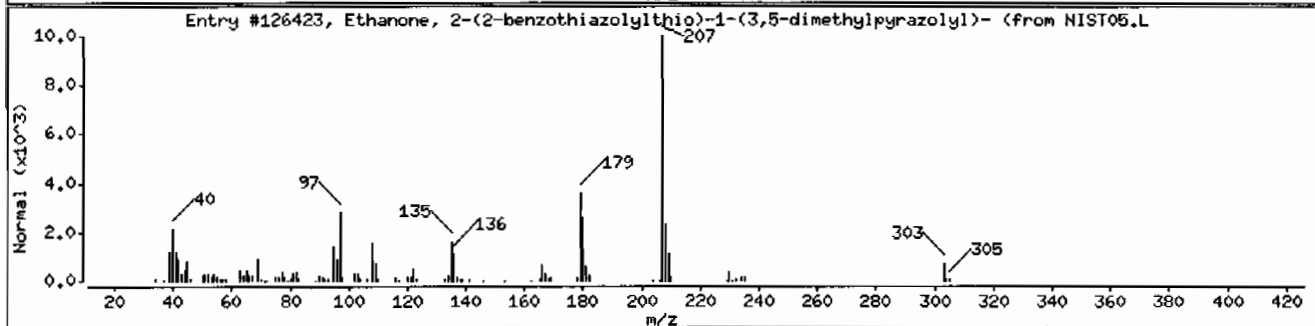
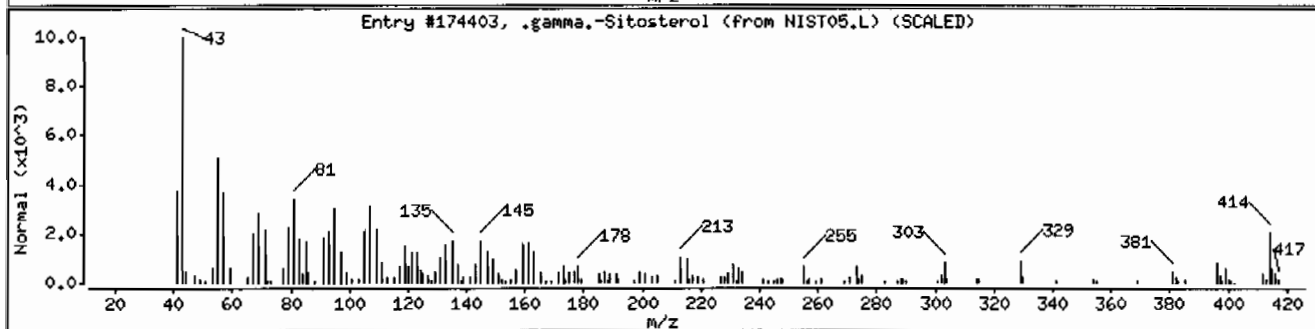
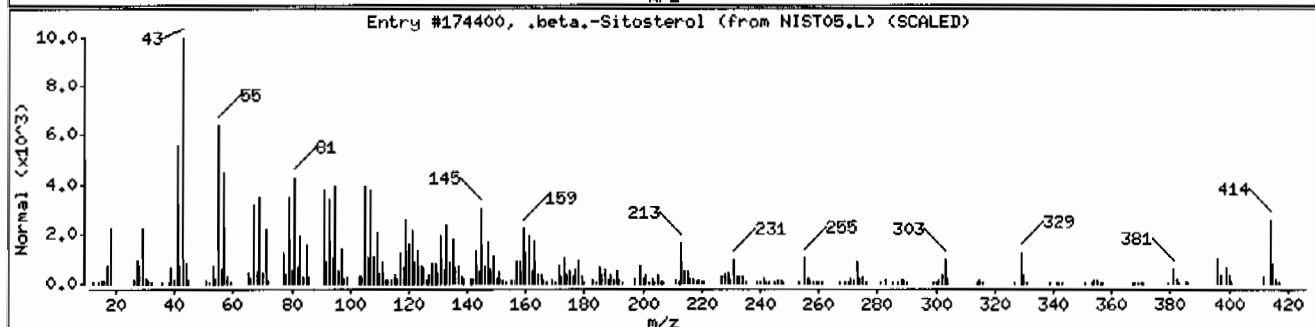
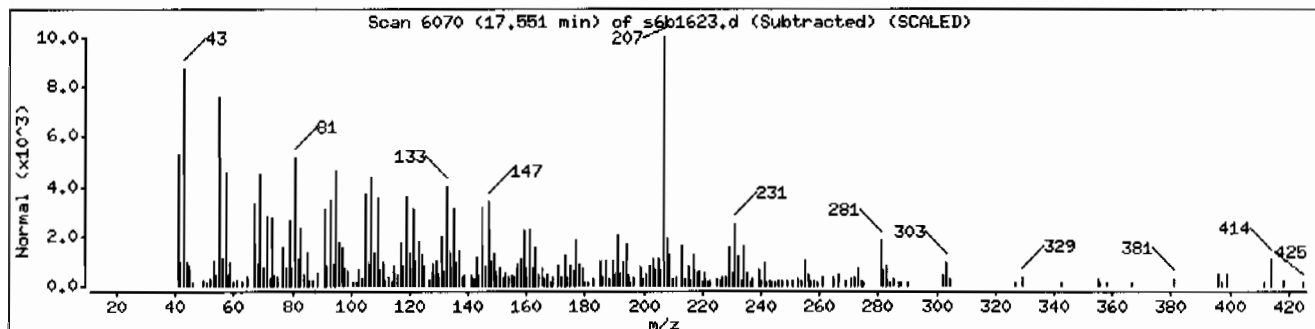
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
.beta.-Sitosterol	83-46-5	NIST05.L	174400	84	C29H50O	414
.gamma.-Sitosterol	83-47-6	NIST05.L	174403	47	C29H50O	414
Ethanone, 2-(2-benzothiazolylthio)-1-(3,	155670-84-1	NIST05.L	126423	46	C14H13N3OS2	303



Date : 16-FEB-2010 21:01

Client ID: RE15-10-8307

Instrument: MSD6.i

Sample Info: 1246330005195044711SVMI11LANL

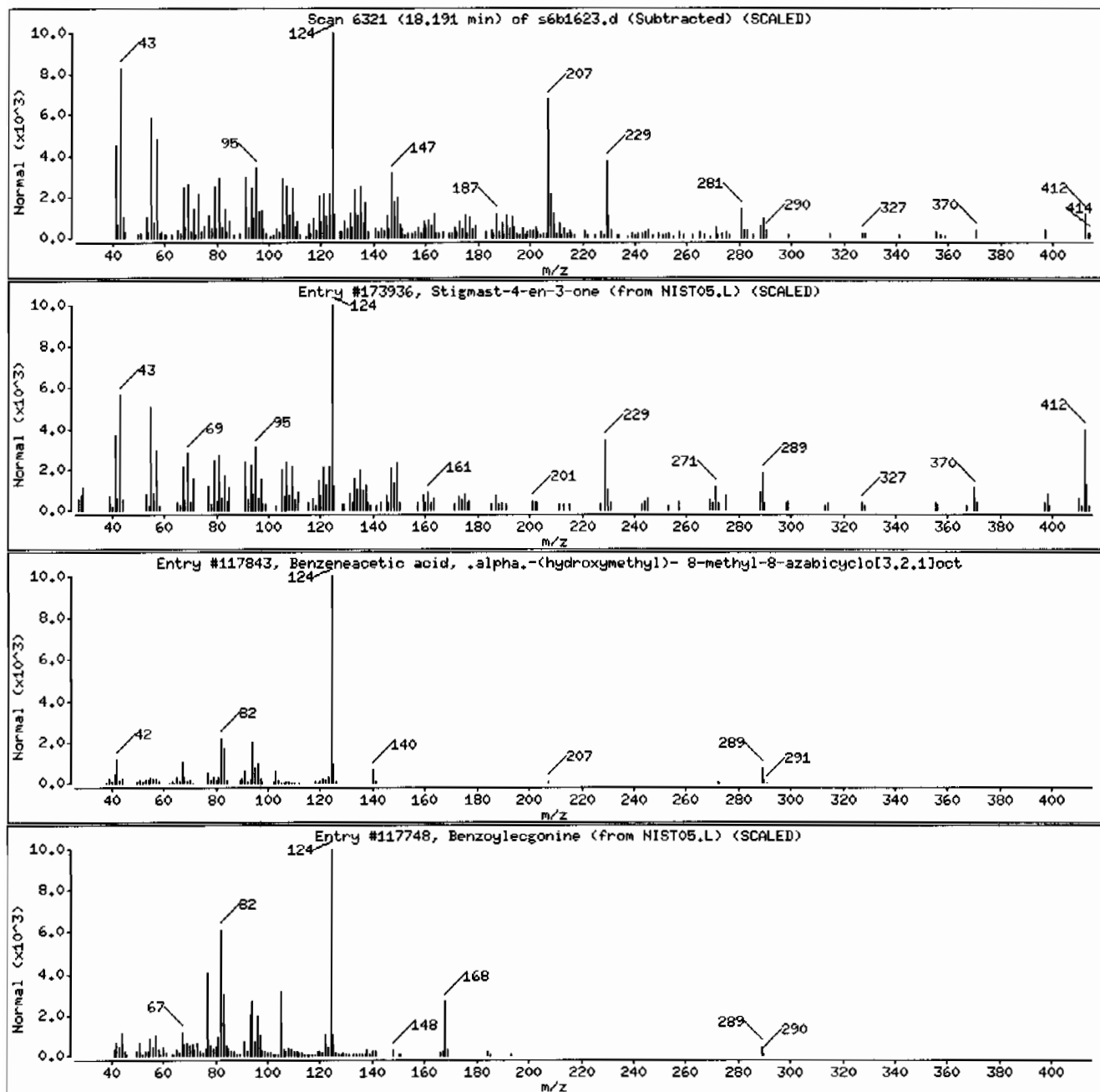
Volume Injected (UL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Stigmast-4-en-3-one	1058-61-3	NIST05.L	173936	49	C29H48O	412
Benzeneacetic acid, .alpha.-(hydroxymeth	51-55-8	NIST05.L	117843	25	C17H23NO3	289
Benzoylcegonine	519-09-5	NIST05.L	117748	22	C16H19NO4	289



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

SDG Number: 10-1567
Lab Sample ID: 246330007

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.02 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 27.6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8308
Batch ID: 950447
Run Date: 02/16/2010 21:57
Prep Date: 02/09/2010 11:07
Data File: s6b1625.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	460	ug/kg	92.0	460
108-95-2	Phenol	U	460	ug/kg	92.0	460
95-57-8	2-Chlorophenol	U	460	ug/kg	92.0	460
106-46-7	1,4-Dichlorobenzene	U	460	ug/kg	92.0	460
621-64-7	N-Nitrosodipropylamine	U	460	ug/kg	92.0	460
59-50-7	4-Chloro-3-methylphenol	U	460	ug/kg	92.0	460
83-32-9	Acenaphthene	U	46.0	ug/kg	15.2	46.0
121-14-2	2,4-Dinitrotoluene	U	460	ug/kg	46.0	460
100-02-7	4-Nitrophenol	U	460	ug/kg	152	460
87-86-5	Pentachlorophenol	U	460	ug/kg	115	460
129-00-0	Pyrene	U	46.0	ug/kg	13.8	46.0
110-86-1	Pyridine	U	460	ug/kg	92.0	460
62-53-3	Aniline	U	460	ug/kg	138	460
111-44-4	bis(2-Chloroethyl) ether	U	460	ug/kg	92.0	460
541-73-1	1,3-Dichlorobenzene	U	460	ug/kg	92.0	460
100-51-6	Benzyl alcohol	U	460	ug/kg	138	460
95-50-1	1,2-Dichlorobenzene	U	460	ug/kg	92.0	460
108-60-1	bis(2-Chloroisopropyl)ether	U	460	ug/kg	92.0	460
95-48-7	o-Cresol	U	460	ug/kg	92.0	460
65794-96-9	m,p-Cresols	U	460	ug/kg	138	460
67-72-1	Hexachloroethane	U	460	ug/kg	92.0	460
98-95-3	Nitrobenzene	U	460	ug/kg	92.0	460
78-59-1	Isophorone	U	460	ug/kg	92.0	460
88-75-5	2-Nitrophenol	U	460	ug/kg	92.0	460
105-67-9	2,4-Dimethylphenol	U	460	ug/kg	161	460
111-91-1	bis(2-Chloroethoxy)methane	U	460	ug/kg	92.0	460
120-83-2	2,4-Dichlorophenol	U	460	ug/kg	92.0	460
65-85-0	Benzoic acid	U	920	ug/kg	230	920
91-20-3	Naphthalene	U	46.0	ug/kg	13.8	46.0
106-47-8	4-Chloroaniline	U	460	ug/kg	92.0	460
87-68-3	Hexachlorobutadiene	U	460	ug/kg	92.0	460
91-57-6	2-Methylnaphthalene	U	46.0	ug/kg	9.20	46.0
77-47-4	Hexachlorocyclopentadiene	U	460	ug/kg	92.0	460
88-06-2	2,4,6-Trichlorophenol	U	460	ug/kg	92.0	460
95-95-4	2,4,5-Trichlorophenol	U	460	ug/kg	92.0	460
91-58-7	2-Chloronaphthalene	U	46.0	ug/kg	15.2	46.0
88-74-4	2-Nitroaniline	U	460	ug/kg	92.0	460
99-09-2	o-Nitroaniline	U	460	ug/kg	92.0	460
	3-Nitroaniline					

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

SDG Number: 10-1567
Lab Sample ID: 246330007

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.02 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 27.6
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	460	ug/kg	92.0	460
606-20-2	2,6-Dinitrotoluene	U	460	ug/kg	46.0	460
208-96-8	Acenaphthylene	U	46.0	ug/kg	13.8	46.0
51-28-5	2,4-Dinitrophenol	U	920	ug/kg	175	920
132-64-9	Dibenzofuran	U	460	ug/kg	92.0	460
84-66-2	Diethylphthalate	U	460	ug/kg	92.0	460
86-73-7	Fluorene	U	46.0	ug/kg	13.8	46.0
7005-72-3	4-Chlorophenylphenylether	U	460	ug/kg	92.0	460
534-52-1	2-Methyl-4,6-dinitrophenol	U	460	ug/kg	92.0	460
100-01-6	4-Nitroaniline	U	460	ug/kg	138	460
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	460	ug/kg	92.0	460
122-66-7	Azobenzene	U	460	ug/kg	92.0	460
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	460	ug/kg	92.0	460
118-74-1	Hexachlorobenzene	U	460	ug/kg	92.0	460
85-01-8	Phenanthrene	U	46.0	ug/kg	13.8	46.0
120-12-7	Anthracene	U	46.0	ug/kg	9.20	46.0
84-74-2	Di-n-butylphthalate	U	460	ug/kg	92.0	460
206-44-0	Fluoranthene	U	46.0	ug/kg	13.8	46.0
85-68-7	Butylbenzylphthalate	U	460	ug/kg	92.0	460
56-55-3	Benzo(a)anthracene	U	46.0	ug/kg	13.8	46.0
91-94-1	3,3'-Dichlorobenzidine	U	460	ug/kg	138	460
218-01-9	Chrysene	U	46.0	ug/kg	13.8	46.0
117-81-7	bis(2-Ethylhexyl)phthalate	U	460	ug/kg	92.0	460
117-84-0	Di-n-octylphthalate	U	460	ug/kg	92.0	460
205-99-2	Benzo(b)fluoranthene	U	46.0	ug/kg	13.8	46.0
207-08-9	Benzo(k)fluoranthene	U	46.0	ug/kg	13.8	46.0
50-32-8	Benzo(a)pyrene	U	46.0	ug/kg	13.8	46.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	46.0	ug/kg	13.8	46.0
53-70-3	Dibenzo(a,h)anthracene	U	46.0	ug/kg	13.8	46.0
191-24-2	Benzo(ghi)perylene	U	46.0	ug/kg	13.8	46.0
120-82-1	1,2,4-Trichlorobenzene	U	460	ug/kg	92.0	460

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	290	ug/kg		JA
301-02-0	9-Octadecenamide, (Z)-	11.61	347	ug/kg	95	NJ

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

SDG Number:	10-1567	Date Collected:	02/01/2010 12:00	Matrix:	R
Lab Sample ID:	246330007	Date Received:	02/05/2010 09:00	%Moisture:	27.6
		Client:	LANL010	Project:	LANL01004
Client ID:	RE15-10-8308	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	950447	Inst:	MSD6.I	Dilution:	1
Run Date:	02/16/2010 21:57	Analyst:	NAG1	Inj. Vol:	.5 uL
Prep Date:	02/09/2010 11:07	Aliquot:	30.02 g	Final Volume:	1 mL
Data File:	s6b1625.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
112-84-5	13-Docosenamide, (Z)-	13.5	1200	ug/kg	93	NJ
112-95-8	Eicosane	14.1	290	ug/kg	91	NJ

Data File: /chem/MSD6.i/s021610.b/s6b1625.d
Report Date: 17-Feb-2010 07:40

Page 1

GEL Laboratories LLC

Data file : /chem/MSD6.i/s021610.b/s6b1625.d
Lab Smp Id: 246330007 Client Smp ID: RE15-10-8308
Inj Date : 16-FEB-2010 21:57
Operator : nag1 Inst ID: MSD6.i
Smp Info : |246330007|950447|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
Meth Date : 16-Feb-2010 17:39 nat00999 Quant Type: ISTD
Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.sub
Target Version: 3.50
Processing Host: hpc1p1

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	27.60030	% 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	4.650	4.650	(1.000)	254768		40.0000	
* 29 Naphthalene-d8	136	5.914	5.917	(1.000)	973239		40.0000	
* 46 Acenaphthene-d10	164	7.774	7.779	(1.000)	554581		40.0000	
* 67 Phenanthrene-d10	188	9.382	9.382	(1.000)	982529		40.0000	
* 91 Chrysene-d12	240	12.333	12.338	(1.000)	710388		40.0000	
* 98 Perylene-d12	264	14.555	14.557	(1.000)	438871		40.0000	
\$ 3 2-Fluorophenol	112	3.514	3.496	(0.756)	332419		52.1036	2400
\$ 5 Phenol-d5	99	4.278	4.273	(0.920)	434624		53.9746	2480
\$ 20 Nitrobenzene-d5	82	5.180	5.185	(0.876)	171060		24.8466	1140
\$ 39 2-Fluorobiphenyl	172	7.040	7.040	(0.906)	346721		24.2598	1120
\$ 60 2,4,6-Tribromophenol	329	8.623	8.625	(1.109)	92563		57.1845	2630
\$ 81 p-Terphenyl-d14	244	11.087	11.087	(0.899)	401817		35.0742	1610

ION RATIO REPORT

SV REPORT

Data file: s6b1625.d

Report Date: 02/17/2010 07:12

Lab. ID: 246330007

SampleType: SAMPLE

Injection Date: 16-FEB-2010 21:57

Operator: nag1

Instrument: MSD6.i

Sample Info: |246330007|950447|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01

Comment:

Method used: /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1567

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline		CAS#: 62-53-3			
66	23460	4.28	4.34	80-120	100	(T)
93	478	4.32	4.34	216-276	2	(Q)

17	N-Nitrosodipropylamine		CAS#: 621-64-7			
70	24285	5.18	5.02	80-120	100	(T)
42	14139	5.18	5.02	43-103	58	(T)

22	Isophorone		CAS#: 78-59-1			
82	171060	5.18	5.44	80-120	100	(T)
138	5583	5.91	5.44	0- 49	3	(T)

43	Dimethylphthalate		CAS#: 131-11-3			
163	99932	7.78	7.47	80-120	100	(T)
164	554581	7.77	7.47	0- 40	555	(QT)

48	2,4-Dinitrophenol		CAS#: 51-28-5			
184	103	8.27	7.85	80-120	100	(T)
154	1817	7.78	7.85	19- 79	1752	(QT)

50	2,4-Dinitrotoluene		CAS#: 121-14-2			
165	74200	7.77	7.98	80-120	100	(T)
89	819	7.77	7.98	45-105	1	(QT)
63	933	7.78	7.98	24- 84	1	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
53 Fluorene		CAS#: 86-73-7				
166	6483	8.62	8.37	80-120	100	(T)
165	6211	8.62	8.37	62-122	96	(T)
167	2208	8.62	8.37	0- 44	34	(T)

55 2-Methyl-4,6-dinitrophenol		CAS#: 534-52-1				
198	347	8.62	8.42	80-120	100	(T)
105	698	8.62	8.42	12- 72	201	(QT)
51	899	8.62	8.42	27- 87	258	(QT)

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

Data file : /chem/MSD6.i/s021610.b/s6b1625.d
 Lab Smp Id: 246330007 Client Smp ID: RE15-10-8308
 Inj Date : 16-FEB-2010 21:57
 Operator : nag1 Inst ID: MSD6.i
 Smp Info : |246330007|950447|1|SVM|1|LANL
 Misc Info : |MSD8270_S|WBN100205-01
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
 Meth Date : 16-Feb-2010 17:39 nat00999 Quant Type: ISTD
 Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
 Als bottle: 19
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1567.sub
 Target Version: 3.50
 Processing Host: hpclp1

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	27.60030	% moisture

Cpnd Variable

Local Compound Variable

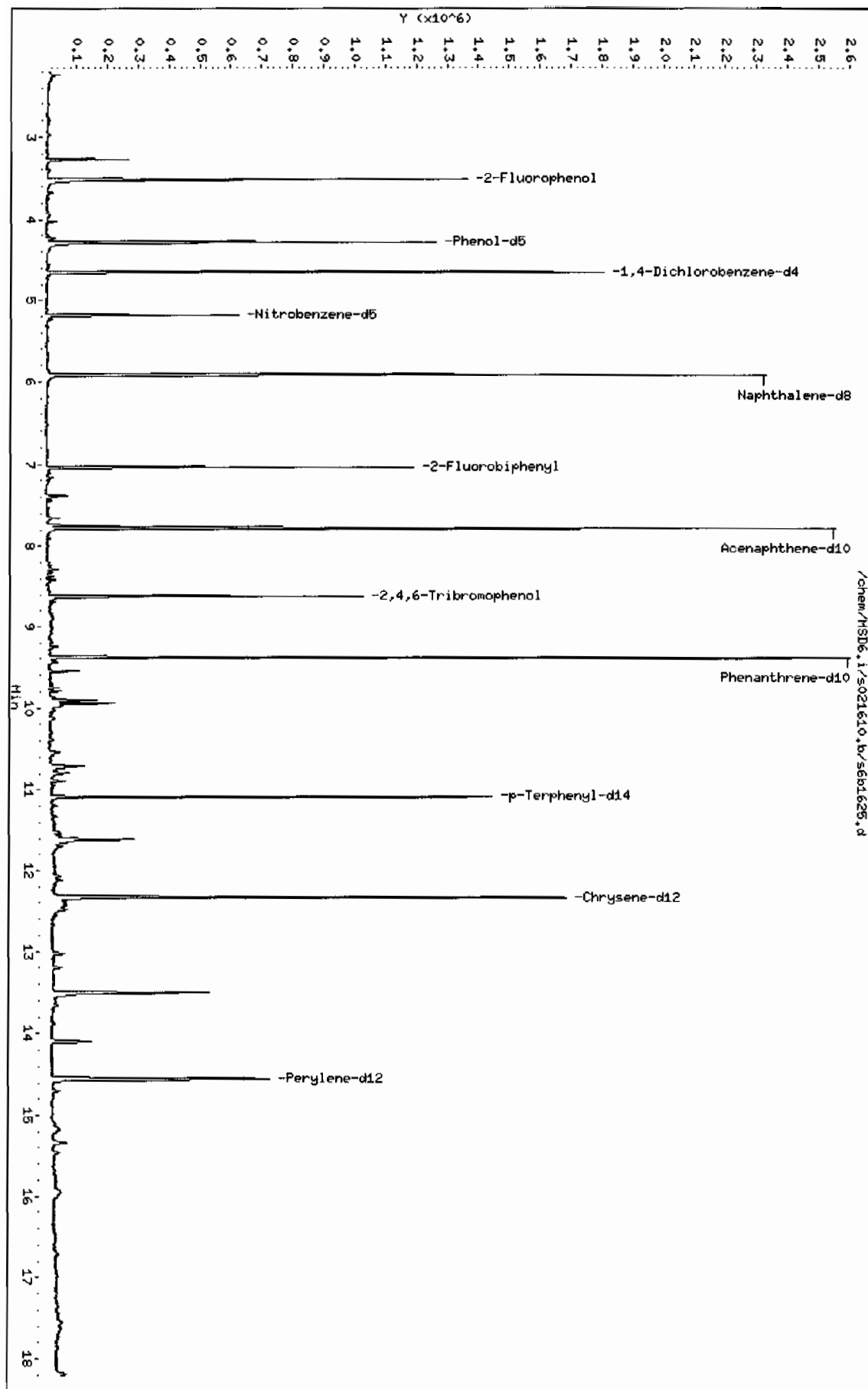
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	4.650	1540384	40.000
* 91 Chrysene-d12	12.333	1923523	40.000
* 98 Perylene-d12	14.555	1244816	40.000

CONCENTRATIONS				QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY
CPND #						
=====	=====	=====	=====	=====	=====	=====

RT	CONCENTRATIONS				QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	
====	====	=====	=====	====	=====	=====	=====
Unknown Aldol Condensate					CAS #:		
3.269	242953	6.30889210	290	0		0	10
9-Octadecenamide, (Z)-					CAS #: 301-02-0		
11.612	362695	7.54231290	347	95	NIST05.L	112656	91
13-Docosenamide, (Z)-					CAS #: 112-84-5		
13.502	809400	26.0086396	1200	93	NIST05.L	146307	98
Eicosane					CAS #: 112-95-8		
14.099	196352	6.30943293	290	91	NIST05.L	113490	98

Data File: /chem/MSD6.i/s021610.b/s6b1625.d
Date: 16-FEB-2010 21:57
Client ID: RELS-10-8308
Sample Info: 1246330007195044711:SVH11:LNLL
Volume Injected (uL): 0.5
Column phase: 3M DB-SMS

Instrument: MSD6.i
Operator: nag1
Column diameter: 0.20



Date: 16-FEB-2010 21:57

Client ID: RE15-10-8308

Instrument: MSD6.i

Sample Info: 1246330007195044711SVH111LANL

Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match

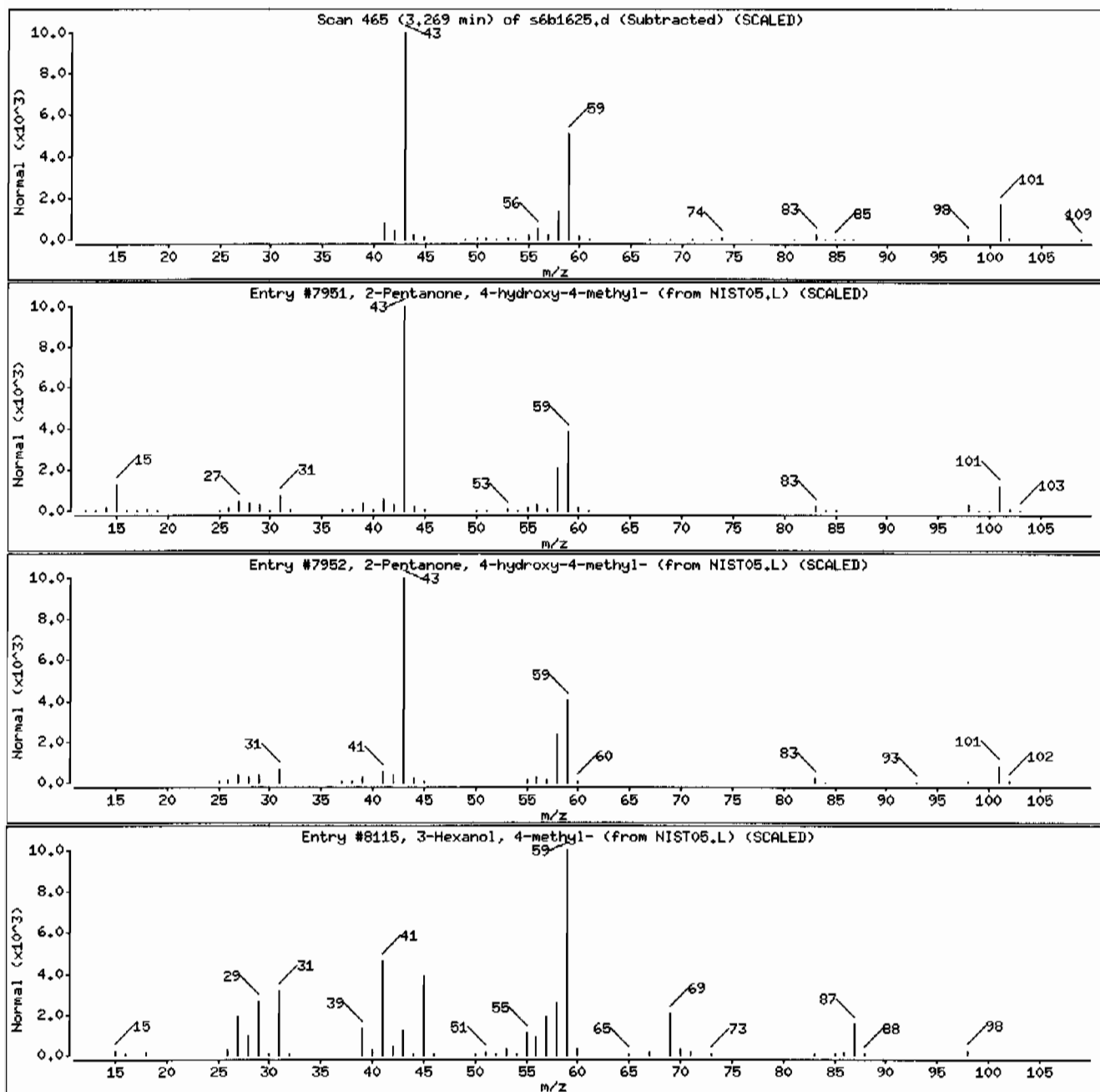
Unknown Aldol Condensate

2-Pentanone, 4-hydroxy-4-methyl-

2-Pentanone, 4-hydroxy-4-methyl-

3-Hexanol, 4-methyl-

CAS Number	Library	Entry	Quality	Formula	Weight
123-42-2	NIST05.L	7951	50	C6H12O2	116
123-42-2	NIST05.L	7952	45	C6H12O2	116
615-29-2	NIST05.L	8115	33	C7H16O	116



Date: 16-FEB-2010 21:57

Client ID: RE15-10-8308

Instrument: MSD6.i

Sample Info: 1246330007195044711SVMI11LANL

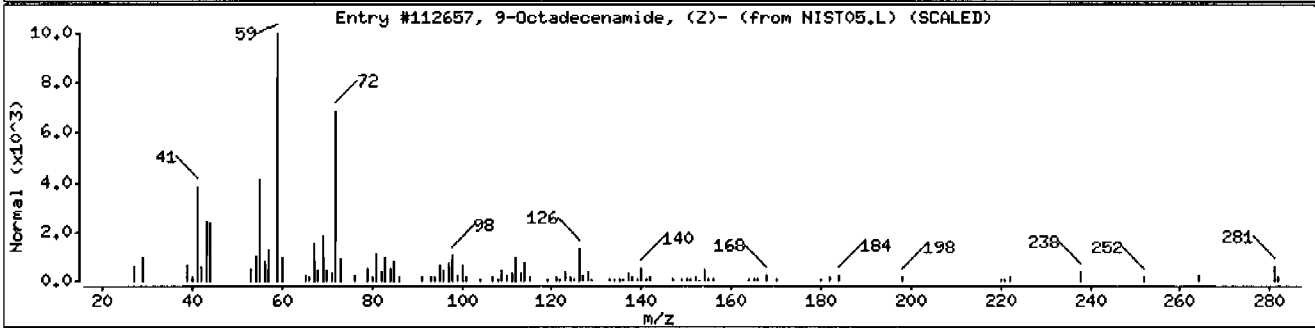
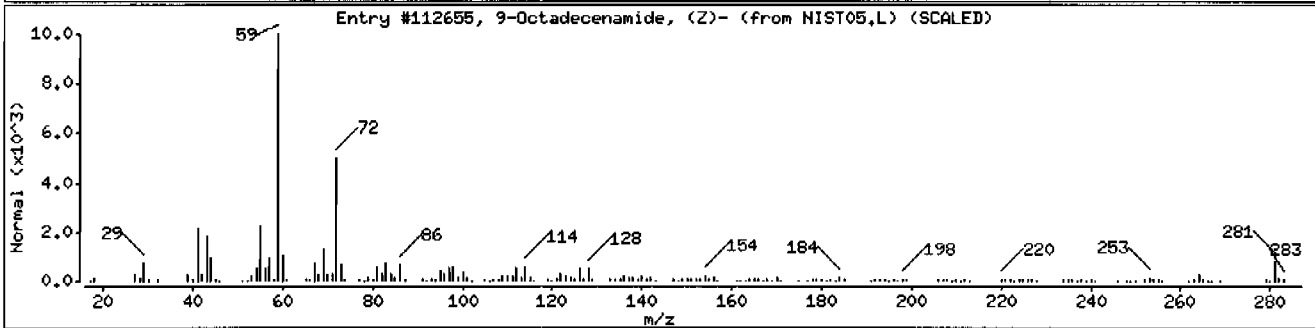
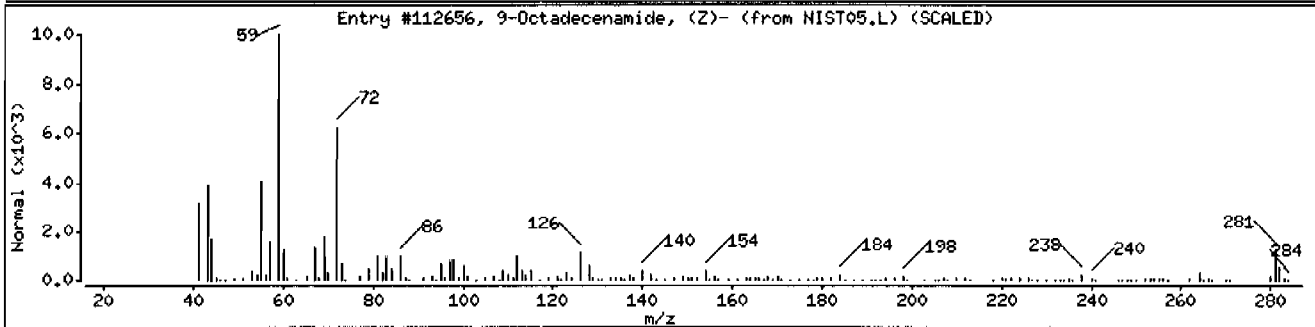
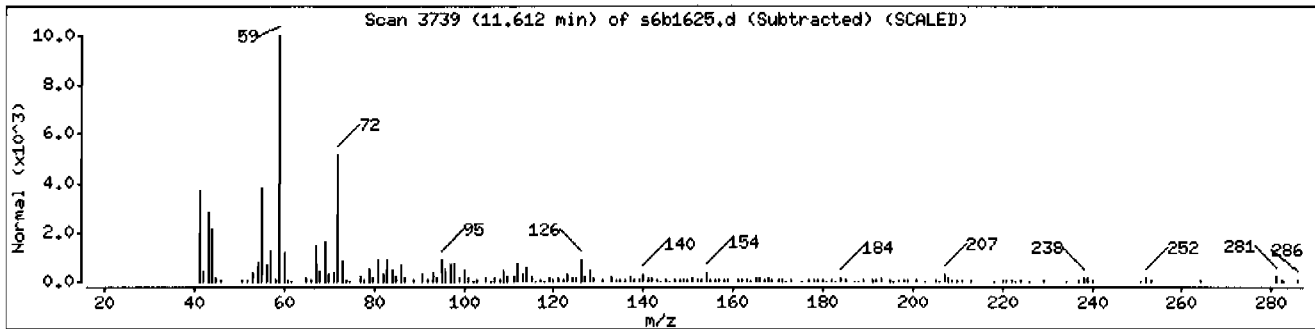
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112656	95	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112655	95	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112657	83	C18H35NO	281



Date : 16-FEB-2010 21:57

Client ID: RE15-10-8308

Instrument: MSD6.i

Sample Info: 1246330007195044711SVH11ILANL

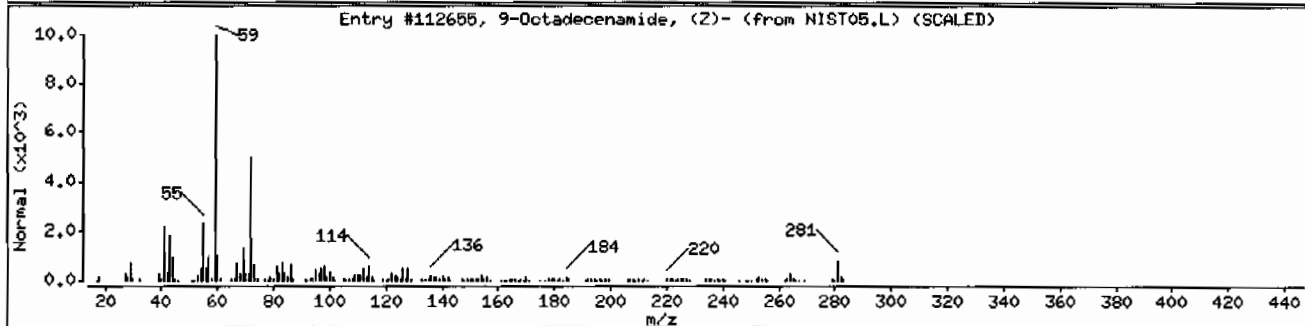
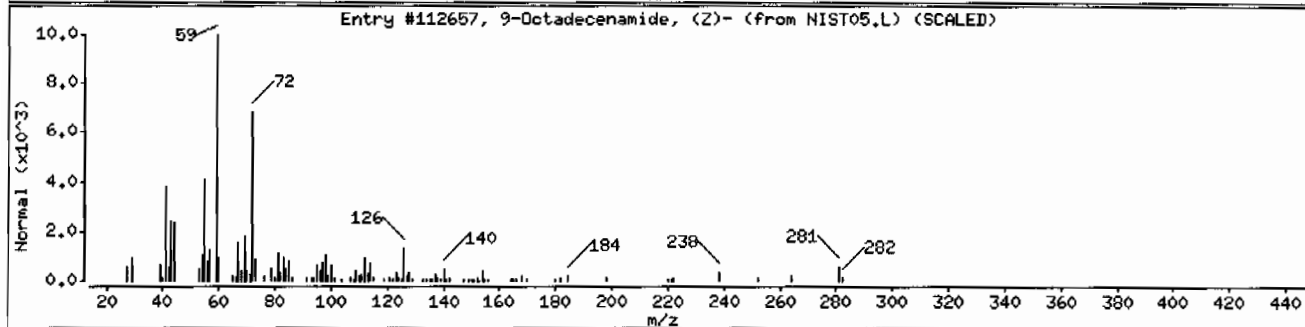
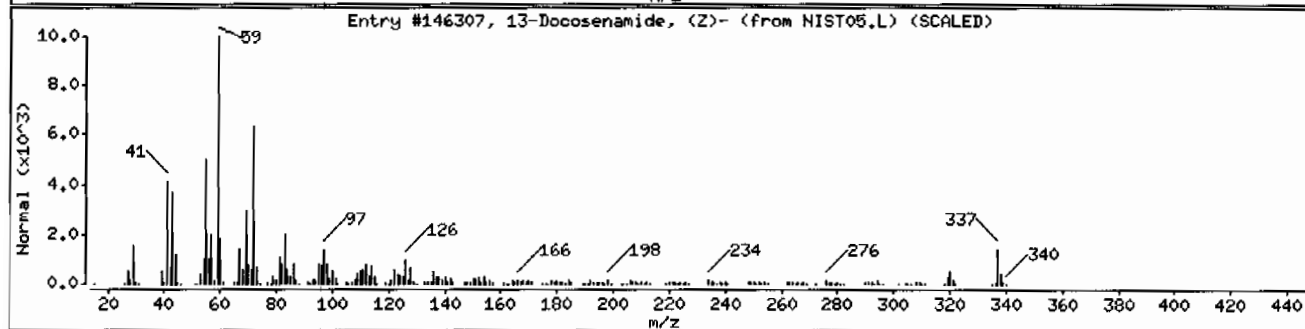
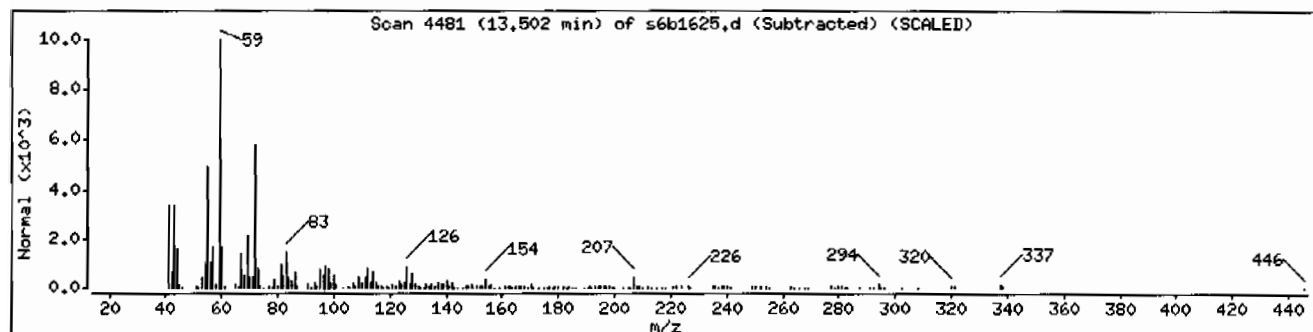
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
13-Docosenamide, (Z)-	112-84-5	NIST05.L	146307	93	C22H43NO	337
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112657	91	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112655	86	C18H35NO	281



Date : 16-FEB-2010 21:57

Client ID: RE15-10-8308

Instrument: MSD6.i

Sample Info: 12463300071950447111SVH111LANL

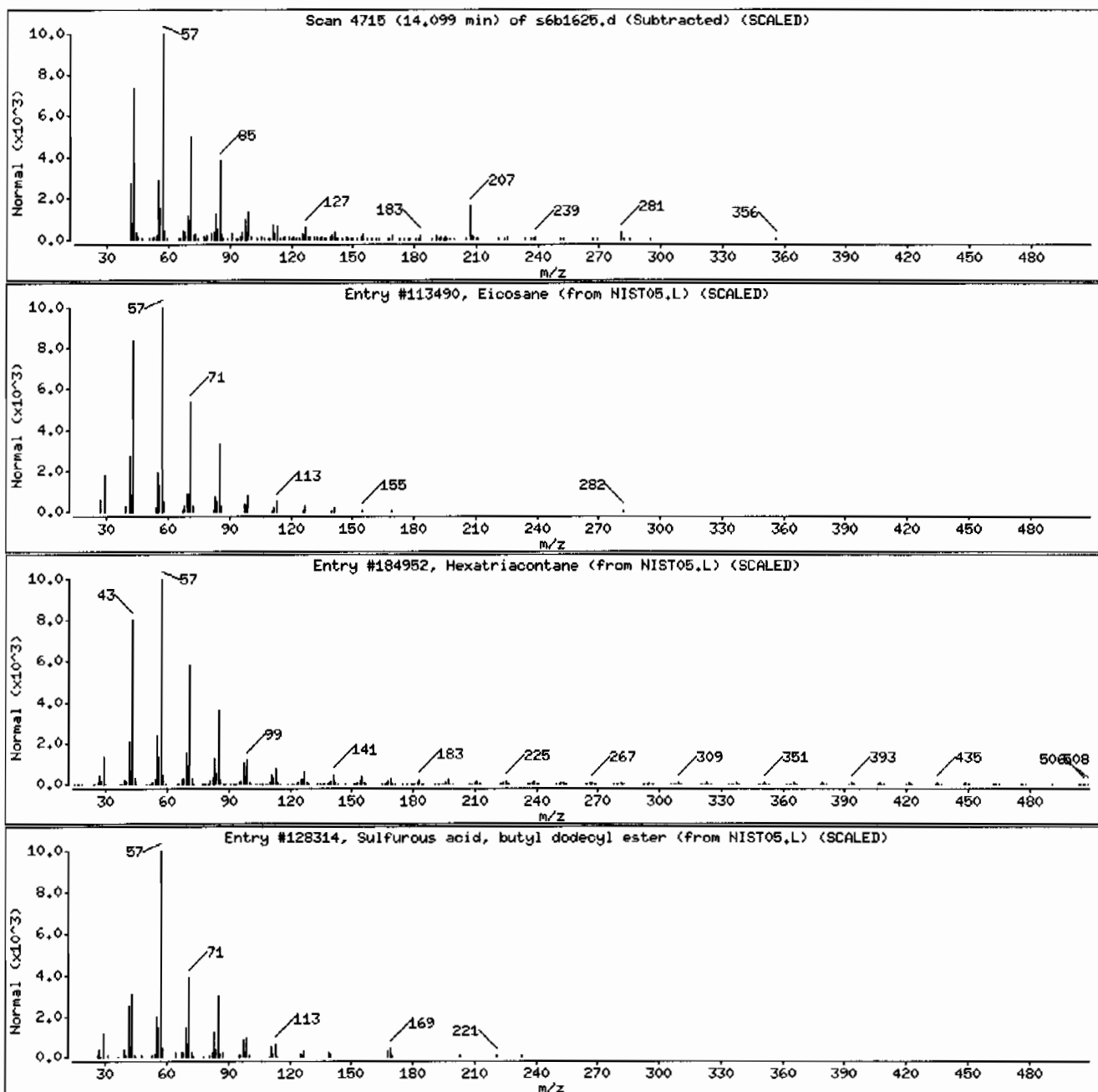
Volume Injected (UL): 0.5

Operator: nag1

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	113490	91	C20H42	282
Hexatriacontane	630-06-8	NIST05.L	184952	83	C36H74	507
Sulfurous acid, butyl dodecyl ester	1000309-17-9	NIST05.L	128314	83	C16H34O3S	306



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

SDG Number: 10-1567
Lab Sample ID: 246330006

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 10.6
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
62-75-9	N-Methyl-N-nitrosomethylamine	U	373	ug/kg	74.5	373
108-95-2	Phenol	U	373	ug/kg	74.5	373
95-57-8	2-Chlorophenol	U	373	ug/kg	74.5	373
106-46-7	1,4-Dichlorobenzene	U	373	ug/kg	74.5	373
621-64-7	N-Nitrosodipropylamine	U	373	ug/kg	74.5	373
59-50-7	4-Chloro-3-methylphenol	U	373	ug/kg	74.5	373
83-32-9	Acenaphthene	U	37.3	ug/kg	12.3	37.3
121-14-2	2,4-Dinitrotoluene	U	373	ug/kg	37.3	373
100-02-7	4-Nitrophenol	U	373	ug/kg	123	373
87-86-5	Pentachlorophenol	U	373	ug/kg	93.2	373
129-00-0	Pyrene	U	37.3	ug/kg	11.2	37.3
110-86-1	Pyridine	U	373	ug/kg	74.5	373
62-53-3	Aniline	U	373	ug/kg	112	373
111-44-4	bis(2-Chloroethyl) ether	U	373	ug/kg	74.5	373
541-73-1	1,3-Dichlorobenzene	U	373	ug/kg	74.5	373
100-51-6	Benzyl alcohol	U	373	ug/kg	112	373
95-50-1	1,2-Dichlorobenzene	U	373	ug/kg	74.5	373
108-60-1	bis(2-Chloroisopropyl)ether	U	373	ug/kg	74.5	373
95-48-7	o-Cresol	U	373	ug/kg	74.5	373
65794-96-9	m,p-Cresols	U	373	ug/kg	112	373
67-72-1	Hexachloroethane	U	373	ug/kg	74.5	373
98-95-3	Nitrobenzene	U	373	ug/kg	74.5	373
78-59-1	Isophorone	U	373	ug/kg	74.5	373
88-75-5	2-Nitrophenol	U	373	ug/kg	74.5	373
105-67-9	2,4-Dimethylphenol	U	373	ug/kg	130	373
111-91-1	bis(2-Chloroethoxy)methane	U	373	ug/kg	74.5	373
120-83-2	2,4-Dichlorophenol	U	373	ug/kg	74.5	373
65-85-0	Benzoic acid	U	745	ug/kg	186	745
91-20-3	Naphthalene	U	37.3	ug/kg	11.2	37.3
106-47-8	4-Chloroaniline	U	373	ug/kg	74.5	373
87-68-3	Hexachlorobutadiene	U	373	ug/kg	74.5	373
91-57-6	2-Methylnaphthalene	U	37.3	ug/kg	7.45	37.3
77-47-4	Hexachlorocyclopentadiene	U	373	ug/kg	74.5	373
88-06-2	2,4,6-Trichlorophenol	U	373	ug/kg	74.5	373
95-95-4	2,4,5-Trichlorophenol	U	373	ug/kg	74.5	373
91-58-7	2-Chloronaphthalene	U	37.3	ug/kg	12.3	37.3
88-74-4	2-Nitroaniline	U	373	ug/kg	74.5	373
99-09-2	o-Nitroaniline	U	373	ug/kg	74.5	373
	3-Nitroaniline					

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

SDG Number: 10-1567
Lab Sample ID: 246330006

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 10.6
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	373	ug/kg	74.5	373
606-20-2	2,6-Dinitrotoluene	U	373	ug/kg	37.3	373
208-96-8	Acenaphthylene	U	37.3	ug/kg	11.2	37.3
51-28-5	2,4-Dinitrophenol	U	745	ug/kg	142	745
132-64-9	Dibenzofuran	U	373	ug/kg	74.5	373
84-66-2	Diethylphthalate	U	373	ug/kg	74.5	373
86-73-7	Fluorene	U	37.3	ug/kg	11.2	37.3
7005-72-3	4-Chlorophenylphenylether	U	373	ug/kg	74.5	373
534-52-1	2-Methyl-4,6-dinitrophenol	U	373	ug/kg	74.5	373
100-01-6	4-Nitroaniline	U	373	ug/kg	112	373
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	373	ug/kg	74.5	373
122-66-7	Azobenzene	U	373	ug/kg	74.5	373
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	373	ug/kg	74.5	373
118-74-1	Hexachlorobenzene	U	373	ug/kg	74.5	373
85-01-8	Phenanthrene	U	37.3	ug/kg	11.2	37.3
120-12-7	Anthracene	U	37.3	ug/kg	7.45	37.3
84-74-2	Di-n-butylphthalate	U	373	ug/kg	74.5	373
206-44-0	Fluoranthene	U	37.3	ug/kg	11.2	37.3
85-68-7	Butylbenzylphthalate	U	373	ug/kg	74.5	373
56-55-3	Benzo(a)anthracene	U	37.3	ug/kg	11.2	37.3
91-94-1	3,3'-Dichlorobenzidine	U	373	ug/kg	112	373
218-01-9	Chrysene	U	37.3	ug/kg	11.2	37.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	373	ug/kg	74.5	373
117-84-0	Di-n-octylphthalate	U	373	ug/kg	74.5	373
205-99-2	Benzo(b)fluoranthene	U	37.3	ug/kg	11.2	37.3
207-08-9	Benzo(k)fluoranthene	U	37.3	ug/kg	11.2	37.3
50-32-8	Benzo(a)pyrene	U	37.3	ug/kg	11.2	37.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	37.3	ug/kg	11.2	37.3
53-70-3	Dibenzo(a,h)anthracene	U	37.3	ug/kg	11.2	37.3
191-24-2	Benzo(ghi)perylene	U	37.3	ug/kg	11.2	37.3
120-82-1	1,2,4-Trichlorobenzene	U	373	ug/kg	74.5	373

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	312	ug/kg		JA
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	11.56	282	ug/kg	93	NJ

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330006	Date Received: 02/05/2010 09:00	%Moisture: 10.6
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8309	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.I	Dilution: 1
Run Date: 02/16/2010 21:28	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Aliquot: 30.03 g	Final Volume: 1 mL
Data File: s6b1624.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
301-02-0	9-Octadecenamide, (Z)-	11.61	192	ug/kg	98	NJ
	Unknown	13.5	939	ug/kg		J
	Unknown	15.17	286	ug/kg		J
	Unknown	15.18	258	ug/kg		J
	Unknown	15.2	288	ug/kg		J
	Unknown	15.97	1490	ug/kg		J
	Unknown	16.67	168	ug/kg		J

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Data file : /chem/MSD6.i/s021610.b/s6b1624.d
Lab Smp Id: 246330006 Client Smp ID: RE15-10-8309
Inj Date : 16-FEB-2010 21:28
Operator : nagl Inst ID: MSD6.i
Smp Info : |246330006|950447|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
Meth Date : 16-Feb-2010 17:39 nat00999 Quant Type: ISTD
Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.sub
Target Version: 3.50
Processing Host: hpc1p1

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	10.64390	% 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	4.650	4.650 (1.000)	321549	40.0000	
* 29 Naphthalene-d8	136	5.914	5.917 (1.000)	1209663	40.0000	
* 46 Acenaphthene-d10	164	7.777	7.779 (1.000)	697841	40.0000	
* 67 Phenanthrene-d10	188	9.382	9.382 (1.000)	1220188	40.0000	
* 91 Chrysene-d12	240	12.333	12.338 (1.000)	851209	40.0000	
* 98 Perylene-d12	264	14.552	14.557 (1.000)	500230	40.0000	
\$ 3 2-Fluorophenol	112	3.516	3.496 (0.756)	493619	61.3015	2280
\$ 5 Phenol-d5	99	4.278	4.273 (0.920)	651962	64.1498	2390
\$ 20 Nitrobenzene-d5	82	5.180	5.185 (0.876)	282656	33.0318	1230
\$ 39 2-Fluorobiphenyl	172	7.040	7.040 (0.905)	569334	31.6580	1180
\$ 60 2,4,6-Tribromophenol	329	8.625	8.625 (1.109)	142143	69.7871	2600
\$ 81 p-Terphenyl-d14	244	11.089	11.087 (0.899)	633649	46.1602	1720

ION RATIO REPORT

SV REPORT

Data file: s6b1624.d

Report Date: 02/17/2010 07:11

Lab. ID: 246330006

SampleType: SAMPLE

Injection Date: 16-FEB-2010 21:28

Operator: nagl

Instrument: MSD6.i

Sample Info: |246330006|950447|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01

Comment:

Method used: /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1567

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4 Aniline		CAS#: 62-53-3				
66	34190	4.28	4.34	80-120	100	(T)
93	1189	4.32	4.34	216-276	3	(Q)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	38129	5.18	5.02	80-120	100	(T)
42	23075	5.18	5.02	43-103	61	(T)

22 Isophorone		CAS#: 78-59-1				
82	282656	5.18	5.44	80-120	100	(T)
138	6753	5.91	5.44	0- 49	2	(T)

43 Dimethylphthalate		CAS#: 131-11-3				
163	124434	7.78	7.47	80-120	100	(T)
164	697841	7.78	7.47	0- 40	561	(QT)

50 2,4-Dinitrotoluene		CAS#: 121-14-2				
165	90513	7.78	7.98	80-120	100	(T)
89	767	7.77	7.98	45-105	1	(QT)
63	890	7.78	7.98	24- 84	1	(QT)

53 Fluorene		CAS#: 86-73-7				
166	8928	8.63	8.37	80-120	100	(T)
165	9560	8.63	8.37	62-122	107	(T)
167	3115	8.62	8.37	0- 44	35	(T)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
55 2-Methyl-4,6-dinitrophenol				CAS#: 534-52-1		
198	112	8.63	8.42	80-120	100	(T)
105	1055	8.63	8.42	12- 72	938	(QT)
51	362	8.63	8.42	27- 87	322	(QT)

61 4-Bromophenylphenylether				CAS#: 101-55-3		
248	9951	8.62	8.88	80-120	100	(T)
141	74726	8.63	8.88	52-112	751	(QT)
250	20713	8.63	8.88	68-128	208	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/MSD6.i/s021610.b/s6b1624.d
Report Date: 17-Feb-2010 07:38

Page 1

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Data file : /chem/MSD6.i/s021610.b/s6b1624.d
Lab Smp Id: 246330006 Client Smp ID: RE15-10-8309
Inj Date : 16-FEB-2010 21:28
Operator : nag1 Inst ID: MSD6.i
Smp Info : |246330006|950447|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
Meth Date : 16-Feb-2010 17:39 nat00999 Quant Type: ISTD
Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.sub
Target Version: 3.50
Processing Host: hpclp1

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	30.03000	weight of sample
M	10.64390	% moisture

Cpnd Variable

Local Compound Variable

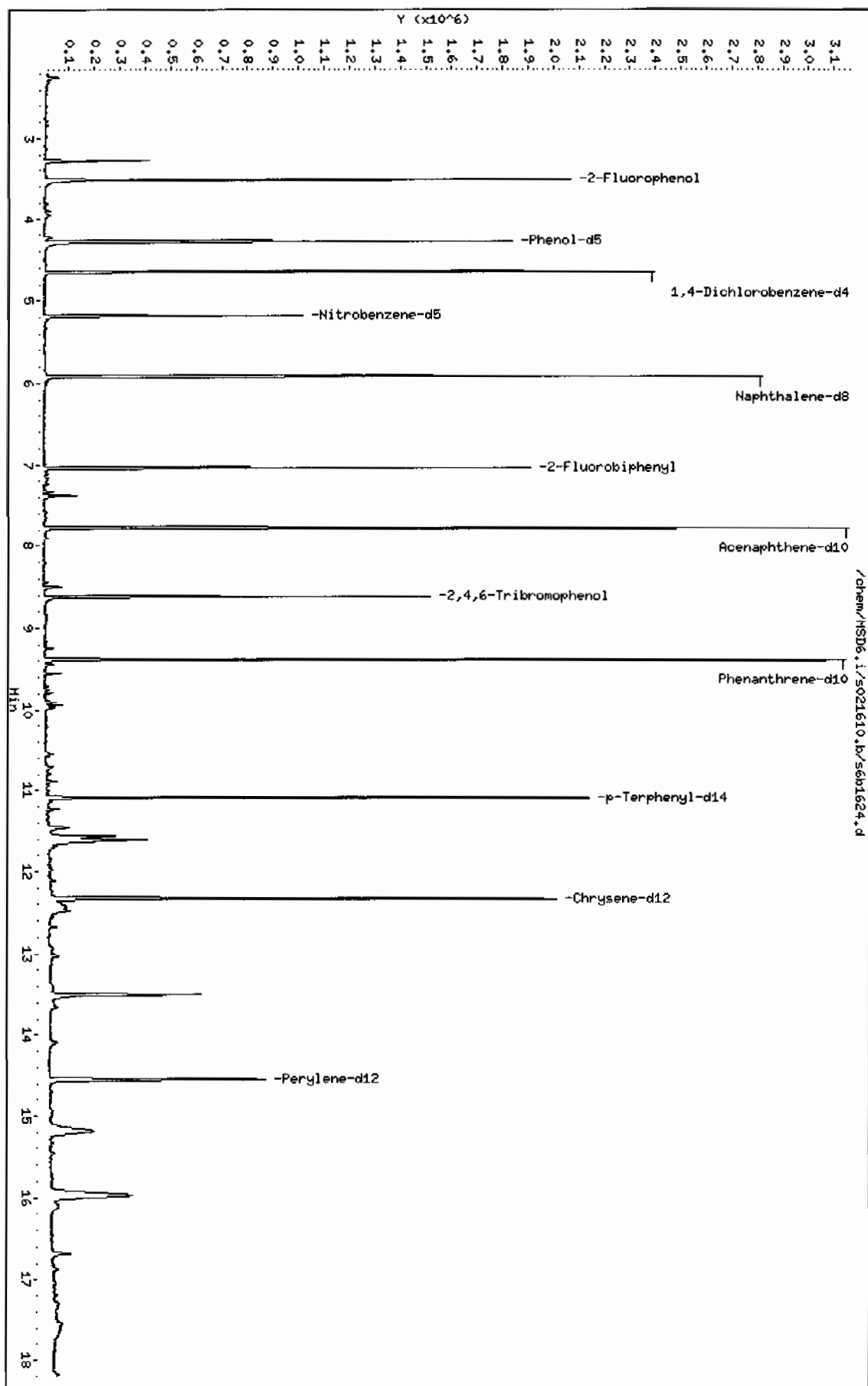
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	4.650	1933746	40.000
* 91 Chrysene-d12	12.333	2307134	40.000
* 98 Perylene-d12	14.552	1404609	40.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
----	----	-----	-----	----	-----	-----	-----

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
Unknown Aldol Condensate					CAS #:		
3.274	405260	8.38290662	312	0		0	10
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa					CAS #: 511-15-9		
11.563	436926	7.57521161	282	93	NIST05.L	116239	91
9-Octadecenamide, (Z)-					CAS #: 301-02-0		
11.609	297727	5.16184888	192	98	NIST05.L	112655	91
Unknown					CAS #:		
13.502	884963	25.2016873	939	0		0	98
Unknown					CAS #:		
15.169	269136	7.66435531	286	0		0	98
Unknown					CAS #:		
15.184	243009	6.92032157	258	0		0	98
Unknown					CAS #:		
15.197	271799	7.74021322	288	0		0	98
Unknown					CAS #:		
15.969	1406602	40.0567435	1490	0		0	98
Unknown					CAS #:		
16.675	158597	4.51647733	168	0		0	98

Data File: /chem/HSD6.i/5021610.b/s6b1624.d
Date: 16-FEB-2010 21:28
Client ID: REL5-10-8309
Sample Info: 12463300061950447115W111L1ANL
Volume Injected (uL): 0.5
Column phase: J&W DB-5MS

Instrument: HSD6.i
Operator: nag1
Column diameter: 0.20



Date: 16-FEB-2010 21:28

Client ID: RE15-10-8309

Instrument: MSD6.i

Sample Info: 12463300061950447111SVH111LANL

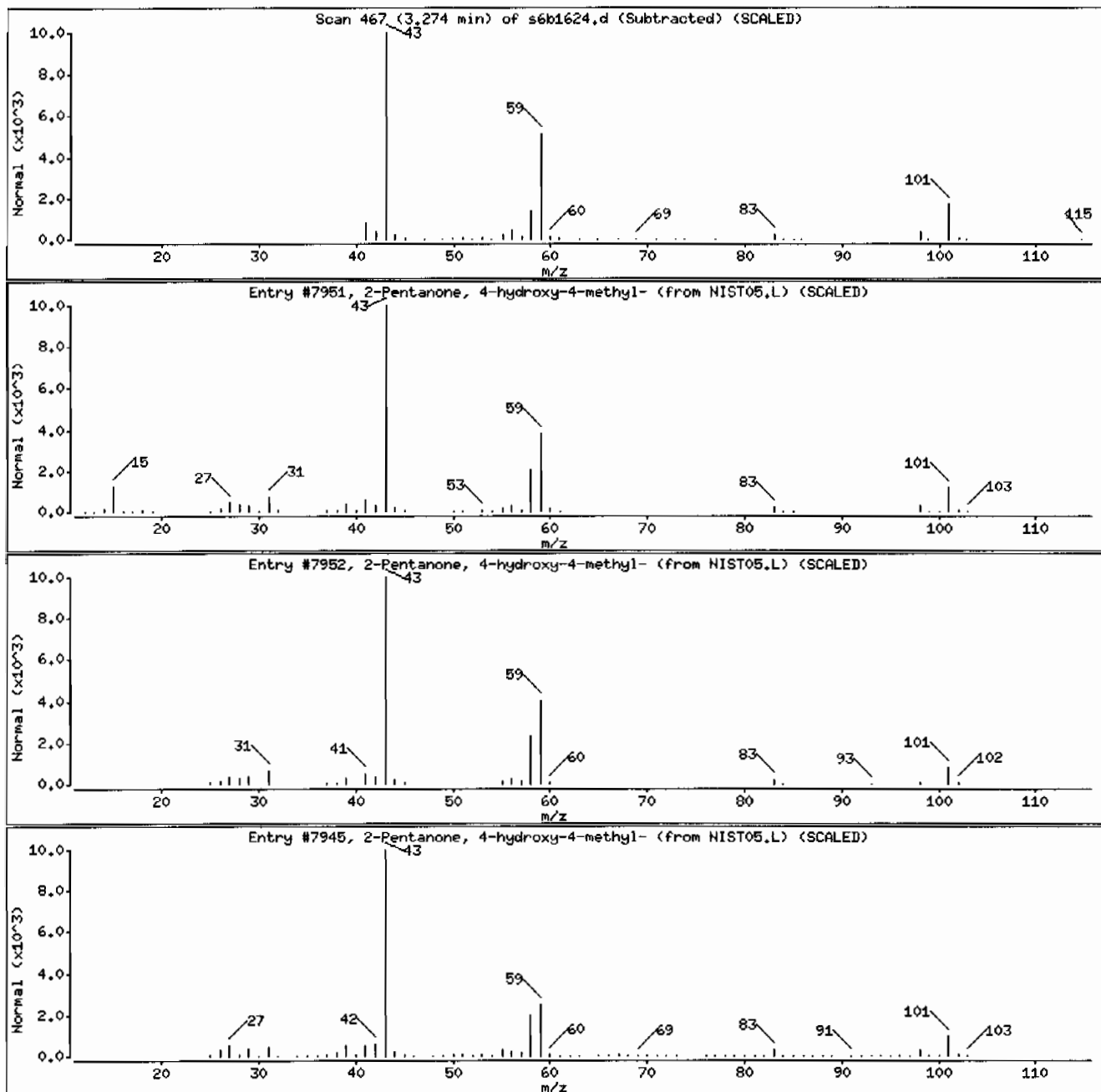
Volume Injected (uL): 0.5

Operator: nag1

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	59	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	36	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7945	25	C6H12O2	116



Date : 16-FEB-2010 21:28

Client ID: RE15-10-8309

Instrument: HSD6,i

Sample Info: 1246330006195044711ISVM11ILANL

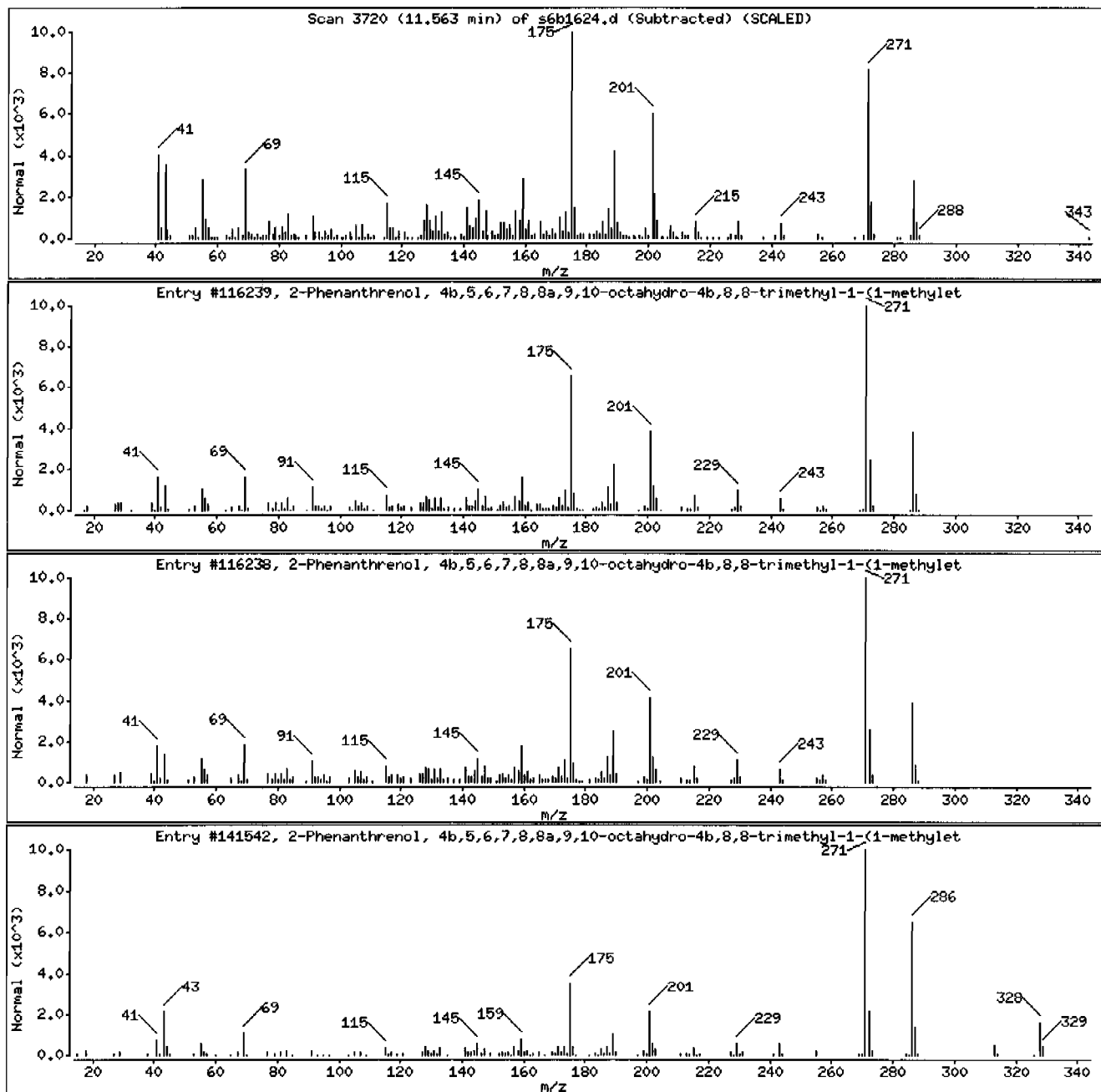
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116239	93	C20H30O	286
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116238	93	C20H30O	286
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	15340-82-6	NIST05.L	141542	87	C22H32O2	328



Date: 16-FEB-2010 21:28

Client ID: RE15-10-8309

Instrument: HSD6.i

Sample Info: 1246330006195044711ISVH11/LANL

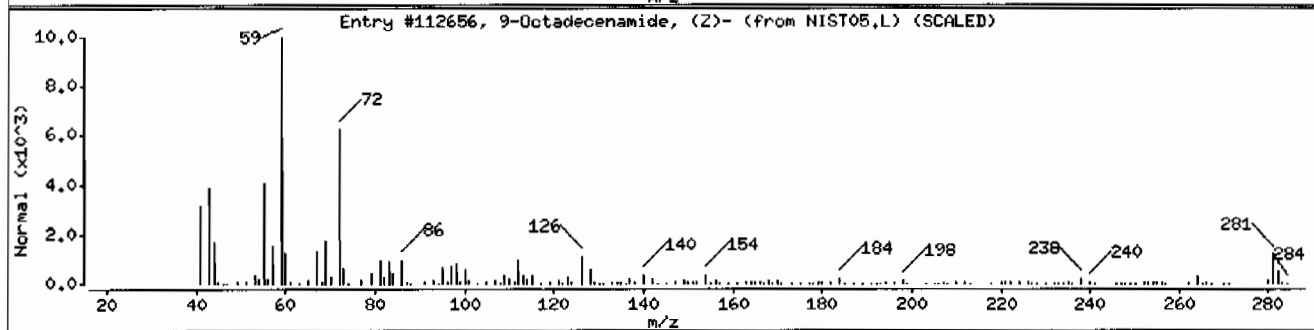
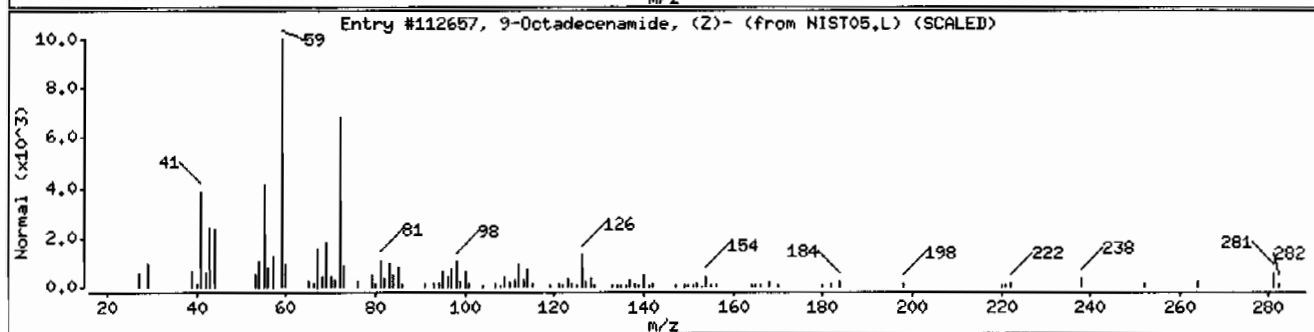
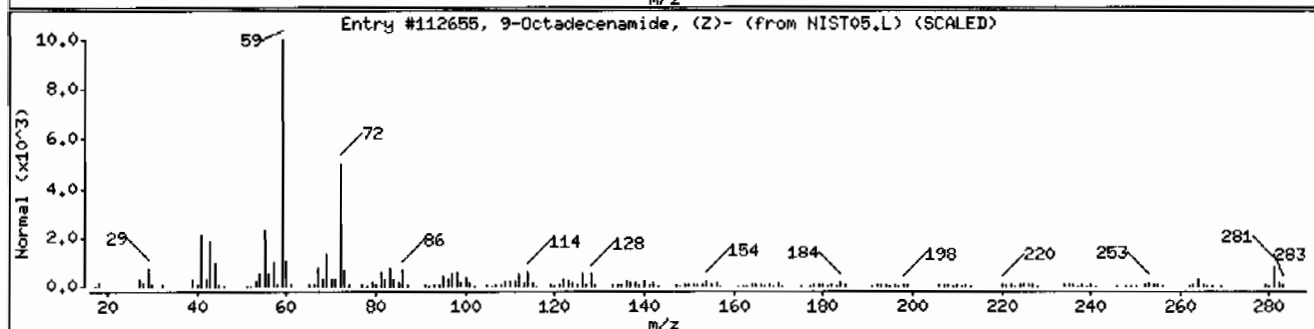
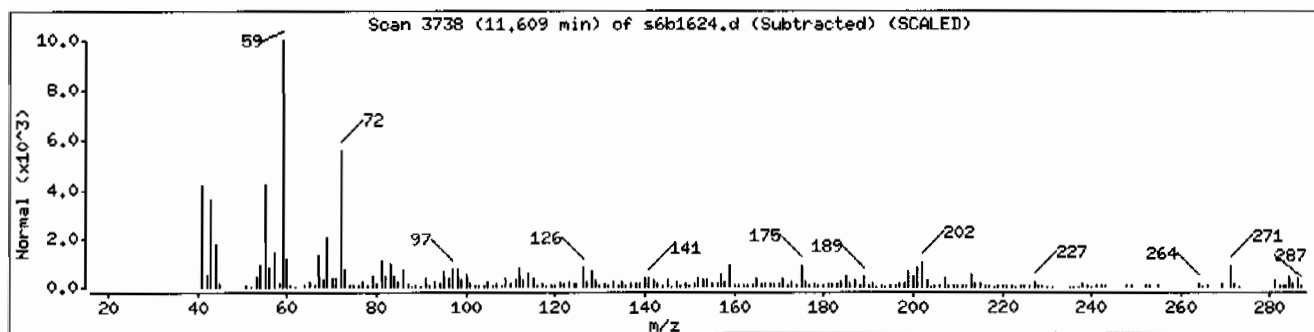
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112655	98	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112657	93	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112656	93	C18H35NO	281



Date : 16-FEB-2010 21:28

Client ID: RE15-10-8309

Instrument: MSD6.i

Sample Info: 1246330006195044711SVMI1ILANL

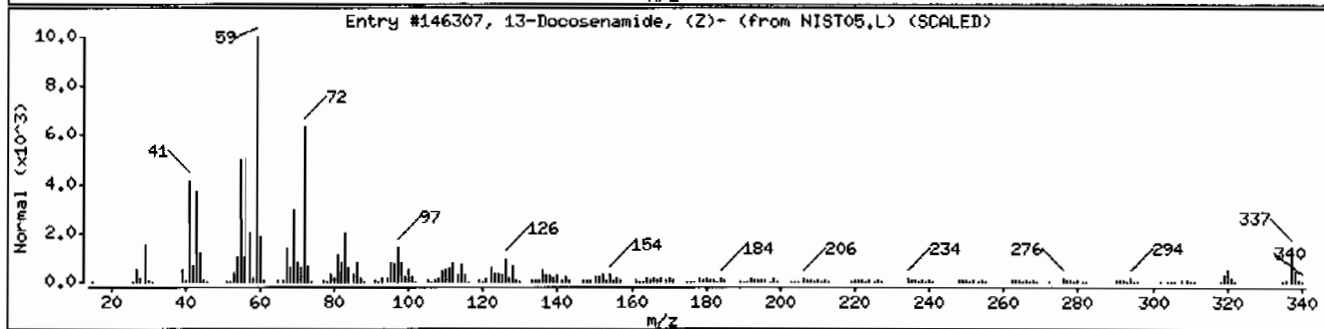
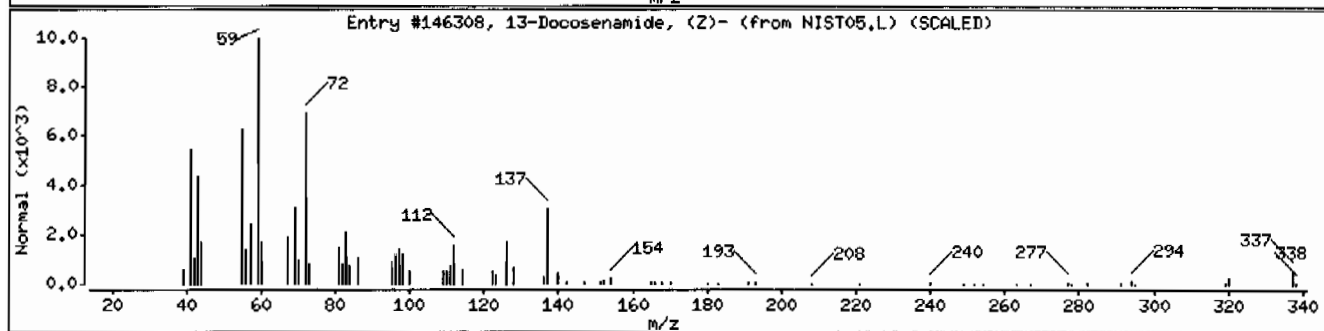
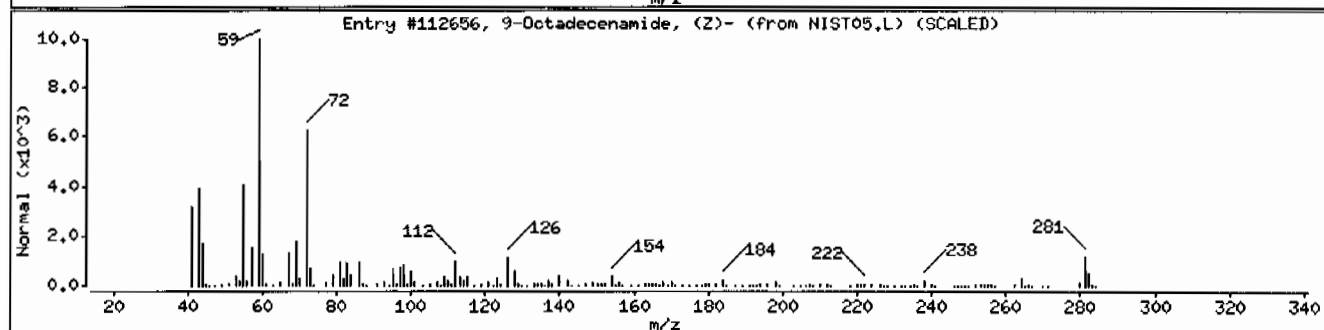
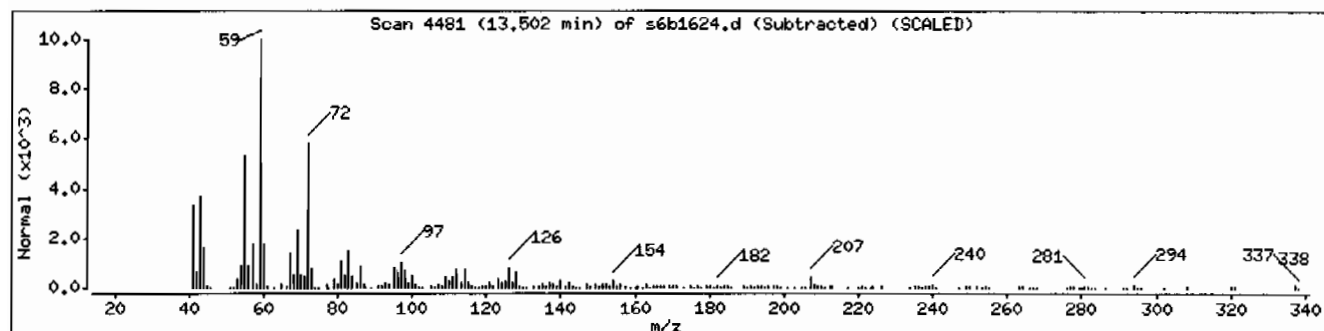
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112656	93	C18H35NO	281
13-Docosenamide, (Z)-	112-84-5	NIST05.L	146308	93	C22H43NO	337
13-Docosenamide, (Z)-	112-84-5	NIST05.L	146307	91	C22H43NO	337



Date: 16-FEB-2010 21:28

Client ID: RE15-10-8309

Instrument: MSD6.i

Sample Info: 124633006195044711SVMI1ILANL

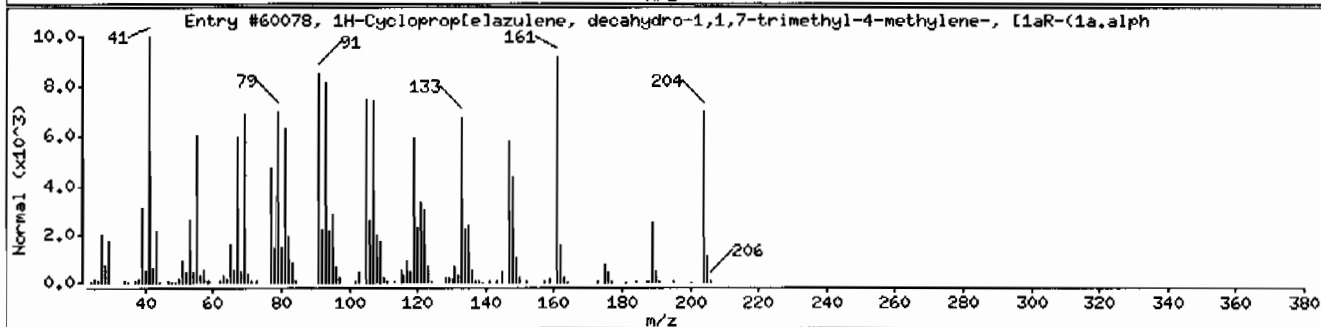
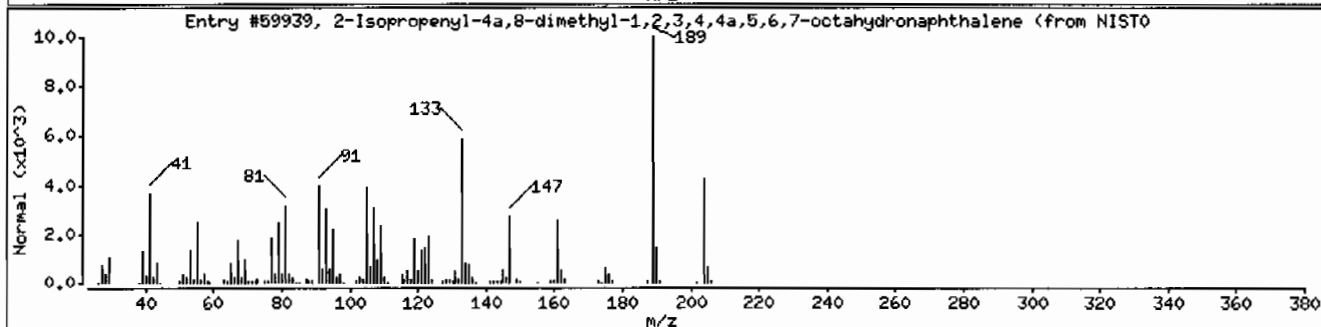
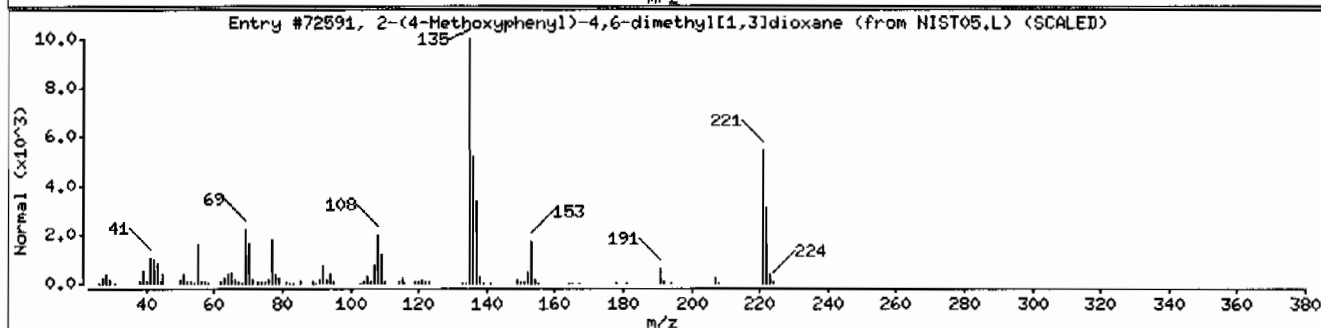
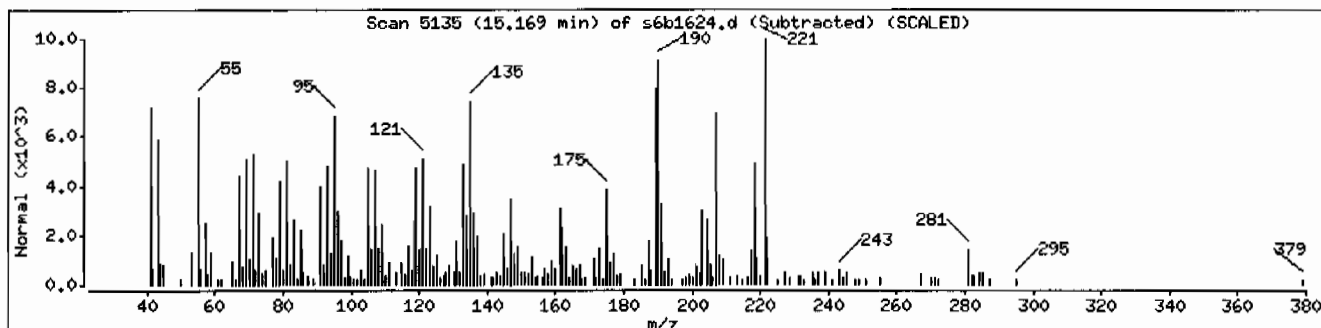
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-(4-Methoxyphenyl)-4,6-dimethyl[1,3]dioxane	5421-05-6	NIST05.L	72591	53	C13H18O3	222
2-Isopropenyl-4a,8-dimethyl-1,2,3,4,4a,5,6,7-octahydronaphthalene	1000192-43-5	NIST05.L	59939	43	C15H24	204
1H-Cycloprop[elazulene, decahydro-1,1,7-trimethyl-4-methylene-, [1aR-(1a.alpha.)]	489-39-4	NIST05.L	60078	43	C15H24	204



Date : 16-FEB-2010 21:28

Client ID: RE15-10-8309

Instrument: MSD6.i

Sample Info: 1246330006195044711SVH111LANL

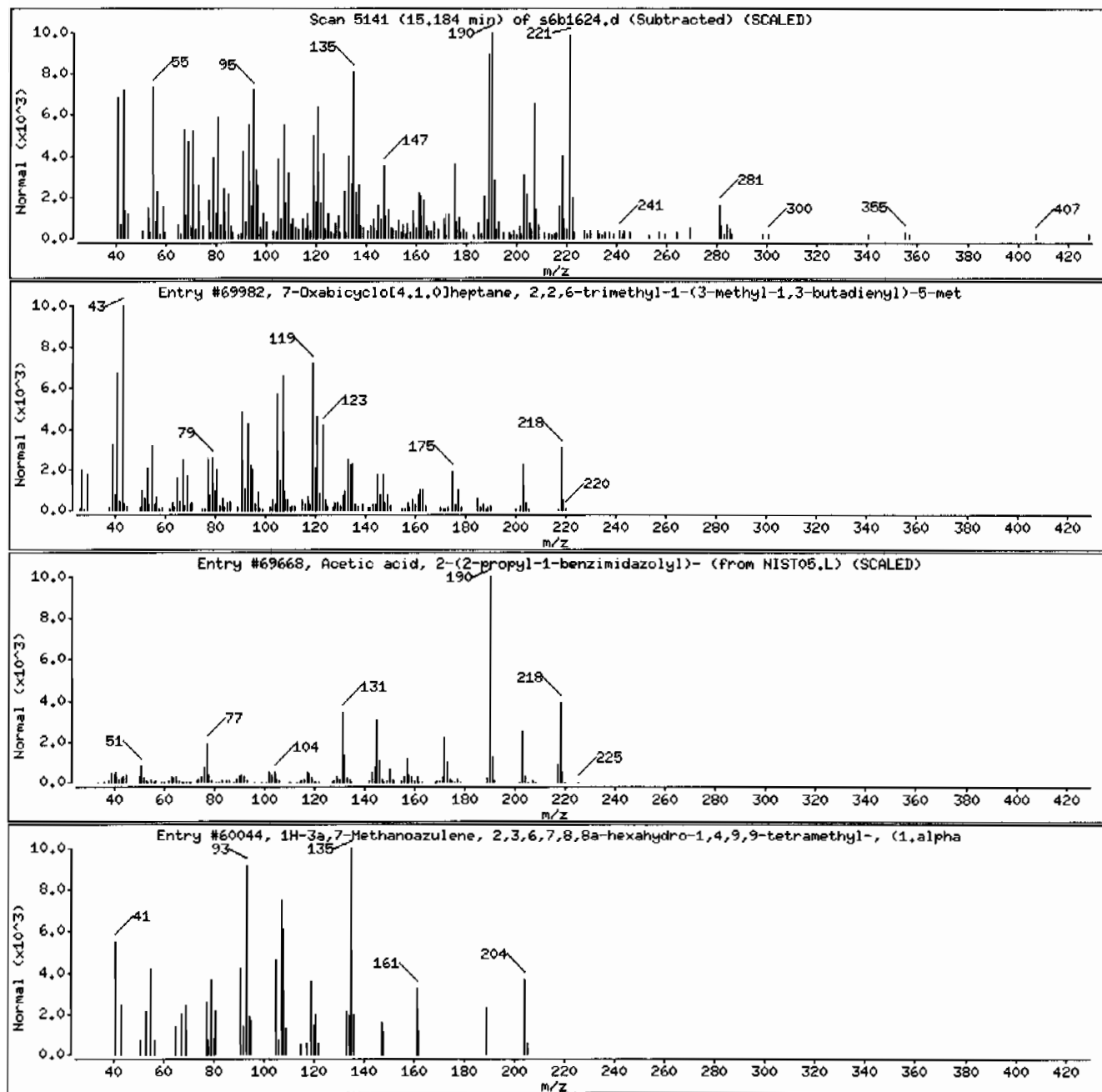
Volume Injected (uL): 0.5

Operator: nag1

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	55	C15H22O	218
Acetic acid, 2-(2-propyl-1-benzimidazolyl	331736-92-6	NIST05.L	69668	45	C12H14N2O2	218
1H-3a,7-Hethanoazulene, 2,3,6,7,8,8a-hex	560-32-7	NIST05.L	60044	25	C15H24	204



Date : 16-FEB-2010 21:28

Client ID: RE15-10-8309

Instrument: MSD6.i

Sample Info: 1246330006195044711SVMI11LANL

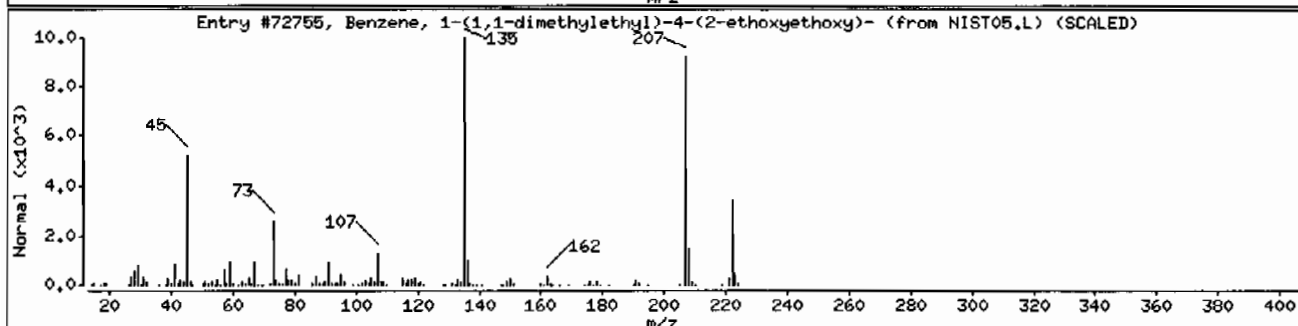
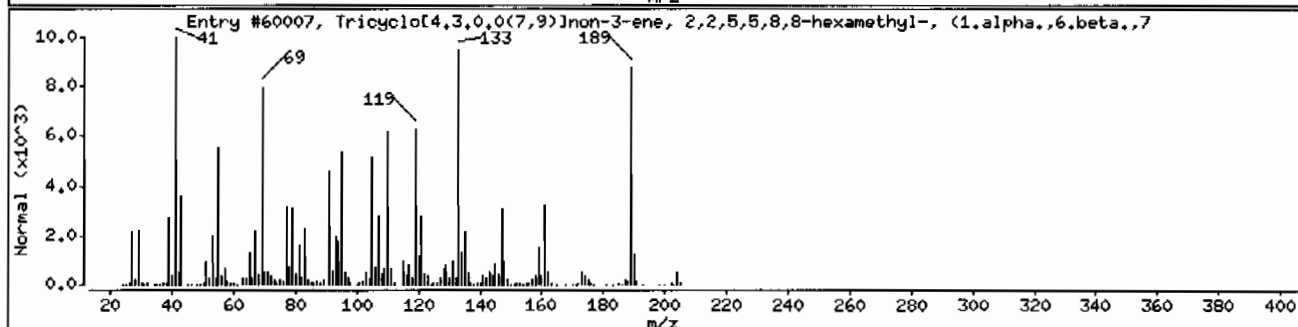
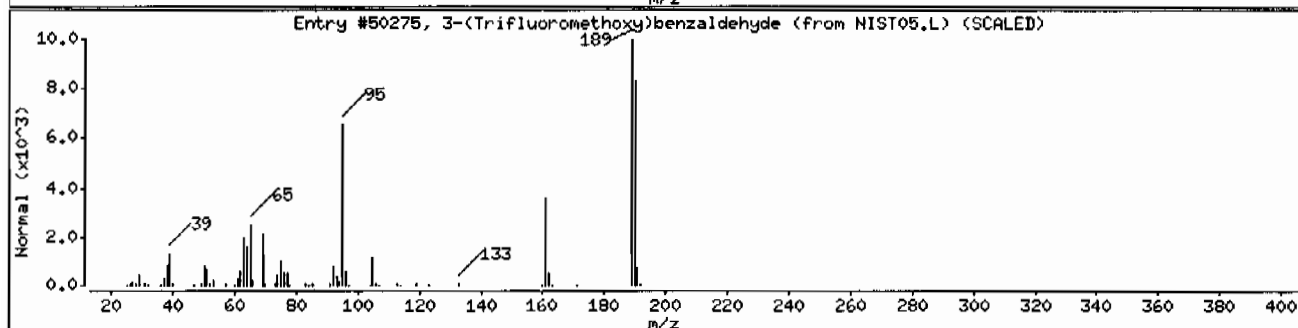
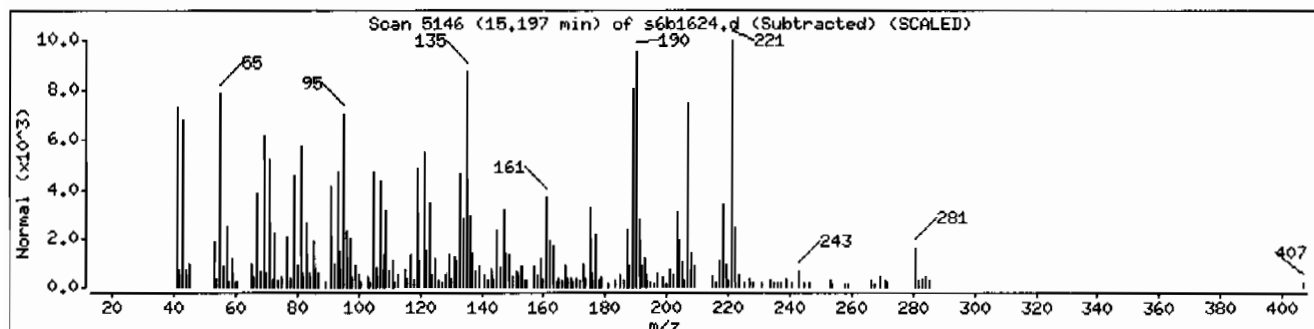
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3-(Trifluoromethoxy)benzaldehyde	52771-21-8	NIST05.L	50275	22	C8H5F3O2	190
Tricyclo[4.3.0.0(7,9)]non-3-ene, 2,2,5,5	54832-80-3	NIST05.L	60007	22	C15H24	204
Benzene, 1-(1,1-dimethylethyl)-4-(2-etho	54889-97-3	NIST05.L	72755	20	C14H22O2	222



Date: 16-FEB-2010 21:28

Client ID: RE15-10-8309

Instrument: MSD6.i

Sample Info: 1246330006195044711SVMI11LANL

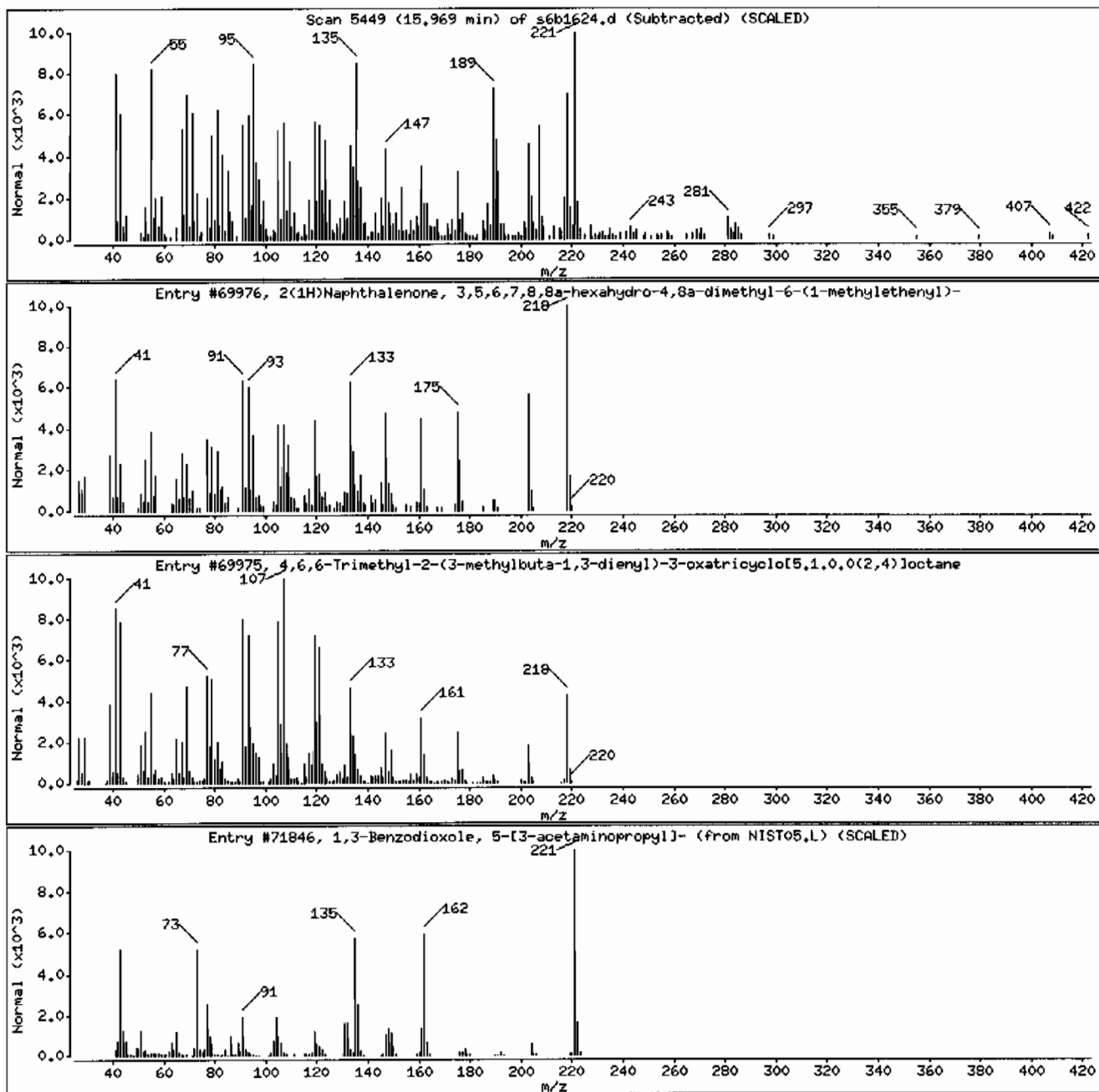
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2(1H)Naphthalenone, 3,5,6,7,8,8a-hexahyd	1000188-66-5	NIST05.L	69976	52	C15H22O	218
4,6,6-Trimethyl-2-(3-methylbuta-1,3-dien	1000190-22-2	NIST05.L	69975	42	C15H22O	218
1,3-Benzodioxole, 5-[3-acetaminopropyl]-	1000124-33-0	NIST05.L	71846	35	C12H15NO3	221



Date: 16-FEB-2010 21:28

Client ID: RE15-10-8309

Instrument: MSD6.i

Sample Info: 1246330006195044711SVMI11LANL

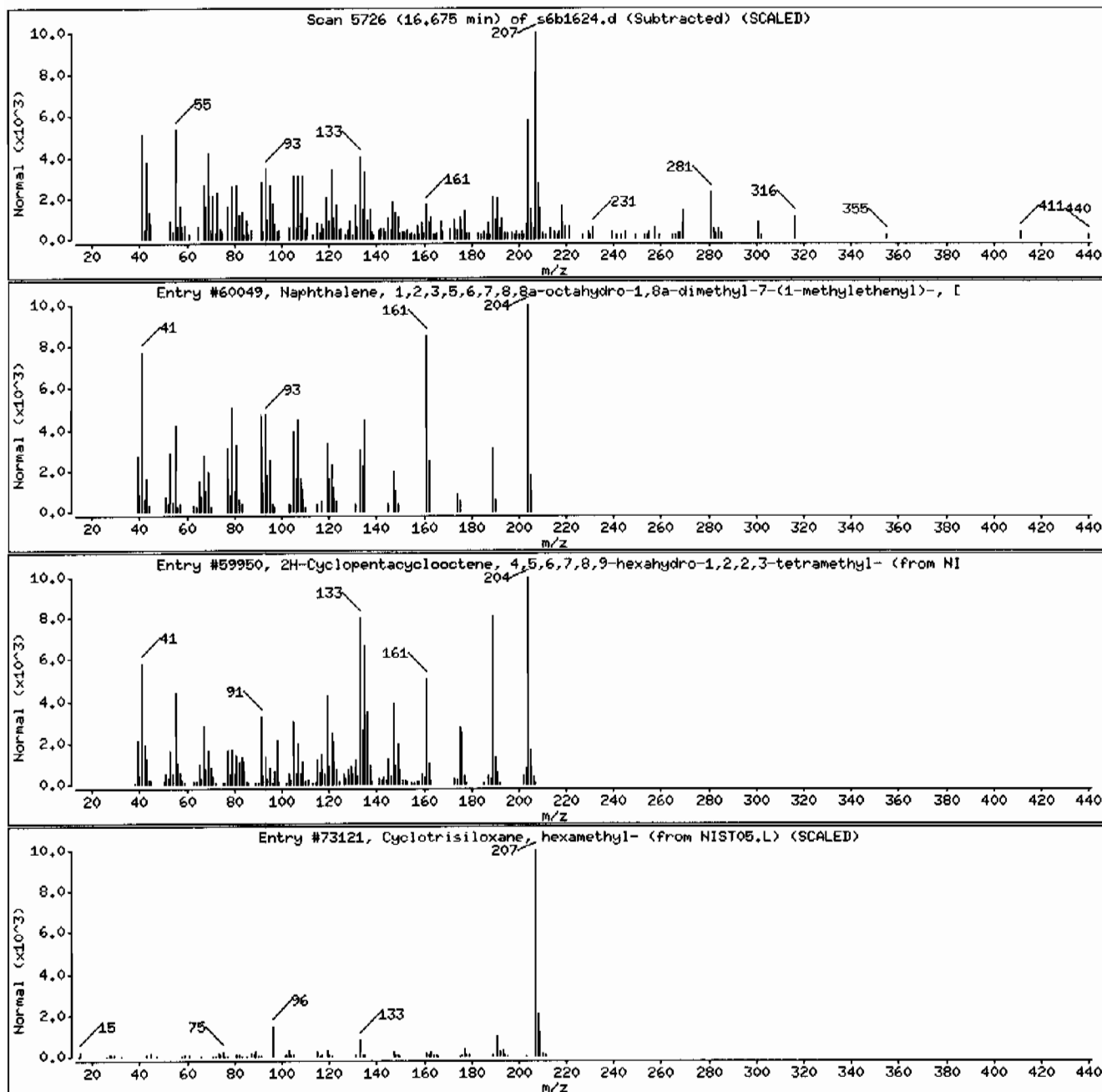
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60049	55	C15H24	204
2H-Cyclopentacyclooctene, 4,5,6,7,8,9-hexahydro-1,2,3-tetramethyl-	1000221-85-8	NIST05.L	59950	38	C15H24	204
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST05.L	73121	38	C6H18O3Si3	222



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

SDG Number: 10-1567
Lab Sample ID: 246330010

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8270C
Inst: MSD6.J
Analyst: NAG1
Aliquot: 30.01 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 20.9
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	421	ug/kg	84.2	421
108-95-2	Phenol	U	421	ug/kg	84.2	421
95-57-8	2-Chlorophenol	U	421	ug/kg	84.2	421
106-46-7	1,4-Dichlorobenzene	U	421	ug/kg	84.2	421
621-64-7	N-Nitrosodipropylamine	U	421	ug/kg	84.2	421
59-50-7	4-Chloro-3-methylphenol	U	421	ug/kg	84.2	421
83-32-9	Acenaphthene	U	42.1	ug/kg	13.9	42.1
121-14-2	2,4-Dinitrotoluene	U	421	ug/kg	42.1	421
100-02-7	4-Nitrophenol	U	421	ug/kg	139	421
87-86-5	Pentachlorophenol	U	421	ug/kg	105	421
129-00-0	Pyrene	U	42.1	ug/kg	12.6	42.1
110-86-1	Pyridine	U	421	ug/kg	84.2	421
62-53-3	Aniline	U	421	ug/kg	126	421
111-44-4	bis(2-Chloroethyl) ether	U	421	ug/kg	84.2	421
541-73-1	1,3-Dichlorobenzene	U	421	ug/kg	84.2	421
100-51-6	Benzyl alcohol	U	421	ug/kg	126	421
95-50-1	1,2-Dichlorobenzene	U	421	ug/kg	84.2	421
108-60-1	bis(2-Chloroisopropyl)ether	U	421	ug/kg	84.2	421
95-48-7	o-Cresol	U	421	ug/kg	84.2	421
65794-96-9	m,p-Cresols	U	421	ug/kg	126	421
67-72-1	Hexachloroethane	U	421	ug/kg	84.2	421
98-95-3	Nitrobenzene	U	421	ug/kg	84.2	421
78-59-1	Isophorone	U	421	ug/kg	84.2	421
88-75-5	2-Nitrophenol	U	421	ug/kg	84.2	421
105-67-9	2,4-Dimethylphenol	U	421	ug/kg	147	421
111-91-1	bis(2-Chloroethoxy)methane	U	421	ug/kg	84.2	421
120-83-2	2,4-Dichlorophenol	U	421	ug/kg	84.2	421
65-85-0	Benzoic acid	U	842	ug/kg	211	842
91-20-3	Naphthalene	U	42.1	ug/kg	12.6	42.1
106-47-8	4-Chloroaniline	U	421	ug/kg	84.2	421
87-68-3	Hexachlorobutadiene	U	421	ug/kg	84.2	421
91-57-6	2-Methylnaphthalene	U	42.1	ug/kg	8.42	42.1
77-47-4	Hexachlorocyclopentadiene	U	421	ug/kg	84.2	421
88-06-2	2,4,6-Trichlorophenol	U	421	ug/kg	84.2	421
95-95-4	2,4,5-Trichlorophenol	U	421	ug/kg	84.2	421
91-58-7	2-Chloronaphthalene	U	42.1	ug/kg	13.9	42.1
88-74-4	2-Nitroaniline	U	421	ug/kg	84.2	421
	o-Nitroaniline					
99-09-2	3-Nitroaniline	U	421	ug/kg	84.2	421

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330010	Date Received: 02/05/2010 09:00	%Moisture: 20.9
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8324	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.1	Dilution: 1
Run Date: 02/16/2010 23:21	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Aliquot: 30.01 g	Final Volume: 1 mL
Data File: s6b1628.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	421	ug/kg	84.2	421
606-20-2	2,6-Dinitrotoluene	U	421	ug/kg	42.1	421
208-96-8	Acenaphthylene	U	42.1	ug/kg	12.6	42.1
51-28-5	2,4-Dinitrophenol	U	842	ug/kg	160	842
132-64-9	Dibenzofuran	U	421	ug/kg	84.2	421
84-66-2	Diethylphthalate	U	421	ug/kg	84.2	421
86-73-7	Fluorene	U	42.1	ug/kg	12.6	42.1
7005-72-3	4-Chlorophenylphenylether	U	421	ug/kg	84.2	421
534-52-1	2-Methyl-4,6-dinitrophenol	U	421	ug/kg	84.2	421
100-01-6	4-Nitroaniline	U	421	ug/kg	126	421
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	421	ug/kg	84.2	421
122-66-7	Azobenzene	U	421	ug/kg	84.2	421
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	421	ug/kg	84.2	421
118-74-1	Hexachlorobenzene	U	421	ug/kg	84.2	421
85-01-8	Phenanthrene	U	42.1	ug/kg	12.6	42.1
120-12-7	Anthracene	U	42.1	ug/kg	8.42	42.1
84-74-2	Di-n-butylphthalate	U	421	ug/kg	84.2	421
206-44-0	Fluoranthene	U	42.1	ug/kg	12.6	42.1
85-68-7	Butylbenzylphthalate	U	421	ug/kg	84.2	421
56-55-3	Benzo(a)anthracene	U	42.1	ug/kg	12.6	42.1
91-94-1	3,3'-Dichlorobenzidine	U	421	ug/kg	126	421
218-01-9	Chrysene	U	42.1	ug/kg	12.6	42.1
117-81-7	bis(2-Ethylhexyl)phthalate	U	421	ug/kg	84.2	421
117-84-0	Di-n-octylphthalate	U	421	ug/kg	84.2	421
205-99-2	Benzo(b)fluoranthene	U	42.1	ug/kg	12.6	42.1
207-08-9	Benzo(k)fluoranthene	U	42.1	ug/kg	12.6	42.1
50-32-8	Benzo(a)pyrene	U	42.1	ug/kg	12.6	42.1
193-39-5	Indeno(1,2,3-cd)pyrene	U	42.1	ug/kg	12.6	42.1
53-70-3	Dibenzo(a,h)anthracene	U	42.1	ug/kg	12.6	42.1
191-24-2	Benzo(ghi)perylene	U	42.1	ug/kg	12.6	42.1
120-82-1	1,2,4-Trichlorobenzene	U	421	ug/kg	84.2	421

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.27	204	ug/kg		JA
	Unknown	10.22	179	ug/kg		J

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

SDG Number: 10-1567	Date Collected: 02/01/2010 12:00	Matrix: R
Lab Sample ID: 246330010	Date Received: 02/05/2010 09:00	%Moisture: 20.9
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8324	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.I	Dilution: 1
Run Date: 02/16/2010 23:21	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Aliquot: 30.01 g	Final Volume: 1 mL
Data File: s6b1628.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
	Unknown	10.73	324	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	11.61	283	ug/kg	97	NJ
	Unknown	13.5	1090	ug/kg		J
	Unknown	16.42	195	ug/kg		J
	Unknown	16.68	988	ug/kg		J
	Unknown	17.04	231	ug/kg		J
	Unknown	17.55	346	ug/kg		J
	Unknown	18.19	177	ug/kg		J

GEL Laboratories LLC

Data file : /chem/MSD6.i/s021610.b/s6b1628.d
 Lab Smp Id: 246330010 Client Smp ID: RE15-10-8324
 Inj Date : 16-FEB-2010 23:21
 Operator : nagl Inst ID: MSD6.i
 Smp Info : |246330010|950447|1|SVM|1|LANL
 Misc Info : |MSD8270_S|WBN100205-01
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
 Meth Date : 16-Feb-2010 17:39 nat00999 Quant Type: ISTD
 Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
 Als bottle: 22
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1567.sub
 Target Version: 3.50
 Processing Host: hpc1p1

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	30.01000	weight of sample
M	20.89090	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	ON-COLUMN	FINAL
					(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	4.650	4.650	(1.000)	235436	40.0000
* 29 Naphthalene-d8	136	5.914	5.917	(1.000)	893999	40.0000
* 46 Acenaphthene-d10	164	7.777	7.779	(1.000)	516340	40.0000
* 67 Phenanthrene-d10	188	9.380	9.382	(1.000)	904013	40.0000
* 91 Chrysene-d12	240	12.330	12.338	(1.000)	608926	40.0000
* 98 Perylene-d12	264	14.550	14.557	(1.000)	320640	40.0000
\$ 3 2-Fluorophenol	112	3.514	3.496	(0.756)	310778	2220
\$ 5 Phenol-d5	99	4.278	4.273	(0.920)	420938	2380
\$ 20 Nitrobenzene-d5	82	5.183	5.185	(0.876)	180673	1200
\$ 39 2-Fluorobiphenyl	172	7.038	7.040	(0.905)	376880	1190
\$ 60 2,4,6-Tribromophenol	329	8.623	8.625	(1.109)	87546	2450
\$ 81 p-Terphenyl-d14	244	11.087	11.087	(0.899)	374935	1610

ION RATIO REPORT

SV REPORT

Data file: s6b1628.d

Report Date: 02/17/2010 07:13

Lab. ID: 246330010

SampleType: SAMPLE

Injection Date: 16-FEB-2010 23:21

Operator: nagl

Instrument: MSD6.i

Sample Info: |246330010|950447|1|SVM|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100205-01

Comment:

Method used: /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1567

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4 Aniline		CAS#: 62-53-3				
66	21875	4.28	4.34	80-120	100	(T)
93	1157	4.32	4.34	216-276	5	(Q)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	25939	5.18	5.02	80-120	100	(T)
42	15287	5.18	5.02	43-103	59	(T)

22 Isophorone		CAS#: 78-59-1				
82	180673	5.18	5.44	80-120	100	(T)
138	135	5.67	5.44	0- 49	0	(T)

43 Dimethylphthalate		CAS#: 131-11-3				
163	92589	7.78	7.47	80-120	100	(T)
164	516340	7.78	7.47	0- 40	558	(QT)

45 Acenaphthylene		CAS#: 208-96-8				
152	13465	7.20	7.63	80-120	100	(T)
151	13323	7.20	7.63	0- 50	99	(QT)
153	1101	7.20	7.63	0- 43	8	(T)

50 2,4-Dinitrotoluene		CAS#: 121-14-2				
165	67649	7.77	7.98	80-120	100	(T)
89	462	7.77	7.98	45-105	1	(QT)
63	826	7.77	7.98	24- 84	1	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
<hr/>						
53 Fluorene		CAS#: 86-73-7				
166	6047	8.63	8.37	80-120	100	(T)
165	5846	8.63	8.37	62-122	97	(T)
167	2003	8.62	8.37	0- 44	33	(T)
<hr/>						
55 2-Methyl-4,6-dinitrophenol		CAS#: 534-52-1				
198	150	8.62	8.42	80-120	100	(T)
105	876	8.62	8.42	12- 72	583	(QT)
51	402	8.63	8.42	27- 87	268	(QT)
<hr/>						
99 Indeno(1,2,3-cd)pyrene		CAS#: 193-39-5				
276	128	16.49	16.48	80-120	100	()
138	222	16.49	16.48	4- 64	173	(Q)
<hr/>						
100 Dibenzo(a,h)anthracene		CAS#: 53-70-3				
278	156	16.51	16.51	80-120	100	()
139	136	16.50	16.51	0- 30	88	(Q)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/MSD6.i/s021610.b/s6b1628.d
Report Date: 17-Feb-2010 07:51

Page 1

GEL Laboratories LLC

Data file : /chem/MSD6.i/s021610.b/s6b1628.d
Lab Smp Id: 246330010 Client Smp ID: RE15-10-8324
Inj Date : 16-FEB-2010 23:21
Operator : nag1 Inst ID: MSD6.i
Smp Info : |246330010|950447|1|SVM|1|LANL
Misc Info : |MSD8270_S|WBN100205-01
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
Meth Date : 16-Feb-2010 17:39 nat00999 Quant Type: ISTD
Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.sub
Target Version: 3.50
Processing Host: hpclp1

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	30.01000	weight of sample
M	20.89090	% moisture

Cpnd Variable

Local Compound Variable

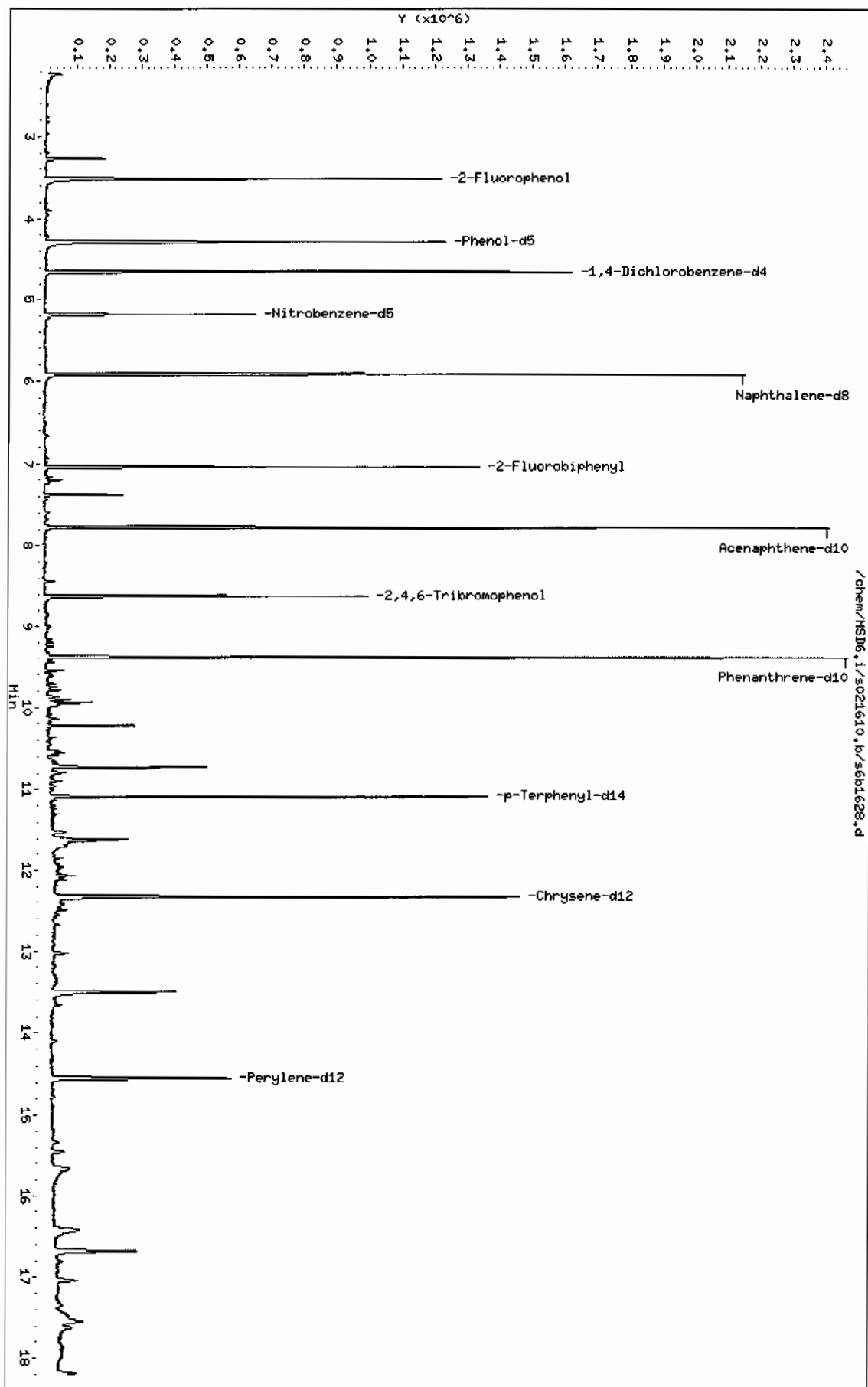
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	4.650	1415533	40.000
* 67 Phenanthrene-d10	9.380	2227999	40.000
* 91 Chrysene-d12	12.330	1674351	40.000
* 98 Perylene-d12	14.550	910447	40.000

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 #:			
3.267	171618	4.84957747	204	0		0	10
Unknown				CAS #:			
10.220	236961	4.25424061	179	0		0	67
Unknown				CAS #:			
10.727	427899	7.68220841	324	0		0	67
9-Octadecenamide, (Z)-				CAS #: 301-02-0			
11.612	281490	6.72474191	283	97	NIST05.L	112657	91
Unknown				CAS #:			
13.502	588097	25.8376865	1090	0		0	98
Unknown				CAS #:			
16.417	105189	4.62143945	195	0		0	98
Unknown				CAS #:			
16.680	534150	23.4675871	988	0		0	98
Unknown				CAS #:			
17.039	124586	5.47361351	230	0		0	98
Unknown				CAS #:			
17.549	187101	8.22016963	346	0		0	98
Unknown				CAS #:			
18.188	95831	4.21027232	177	0		0	98

Data File: /chem/MSD6.i/s021610.kv/s6b1628.d
Date: 16-FEB-2010 23:21
Client ID: RE15-10-8324
Sample Info: 12463300101950447111SVN111LANL
Volume Injected (uL): 0.5
Column phase: J&W DB-SMS

Instrument: MSD6.i
Operator: nag1
Column diameter: 0.20



Date : 16-FEB-2010 23:21

Client ID: RE15-10-8324

Instrument: MSD6.1

Sample Info: 12463300101950447111SVMI11LANL

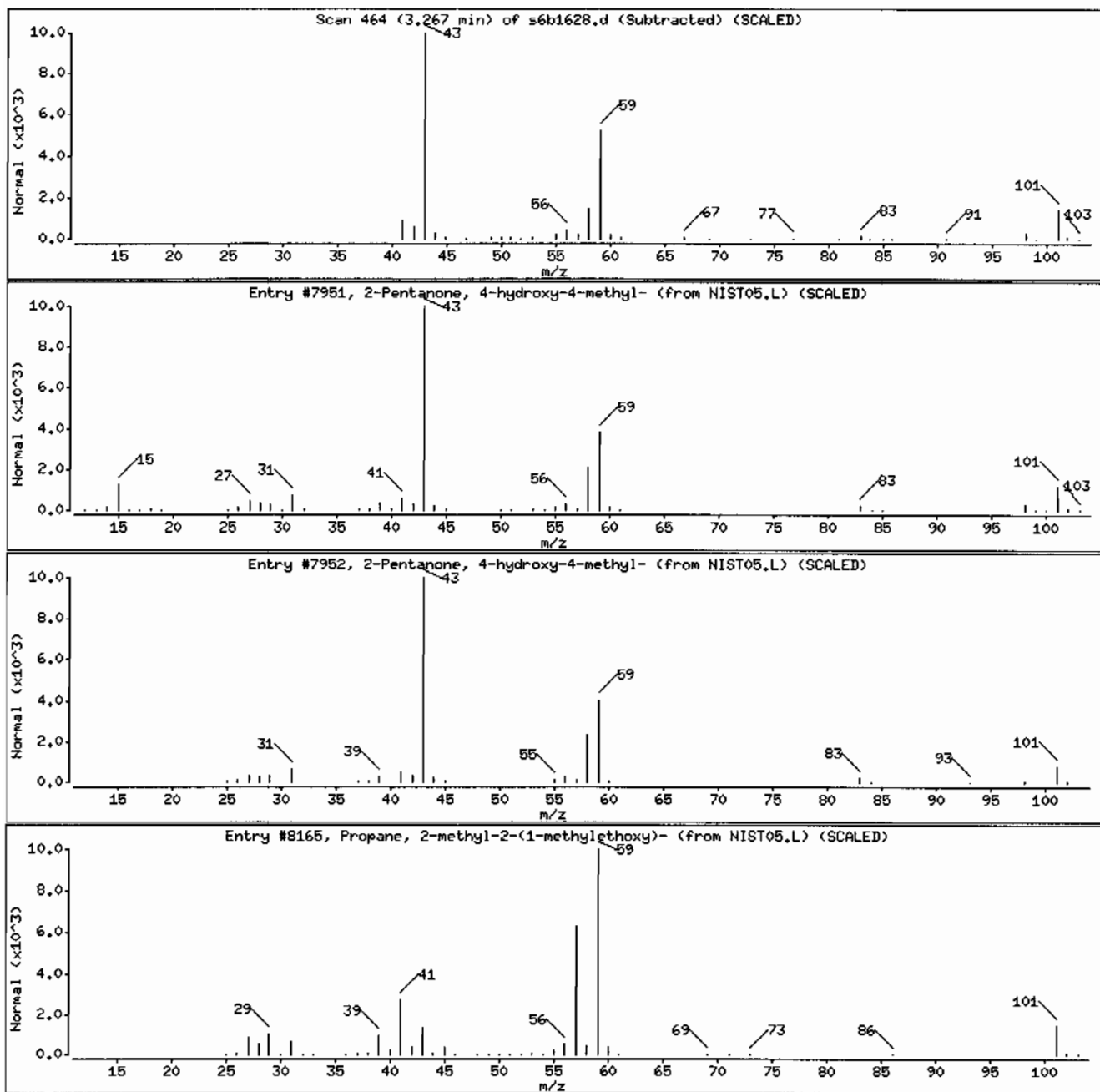
Volume Injected (uL): 0.5

Operator: nag1

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	56	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	50	C6H12O2	116
Propane, 2-methyl-2-(1-methylethoxy)-	17348-59-3	NIST05.L	8165	36	C7H16O	116



Date: 16-FEB-2010 23:21

Client ID: RE15-10-8324

Instrument: MSD6.i

Sample Info: I246330010195044711SVMI11LANL

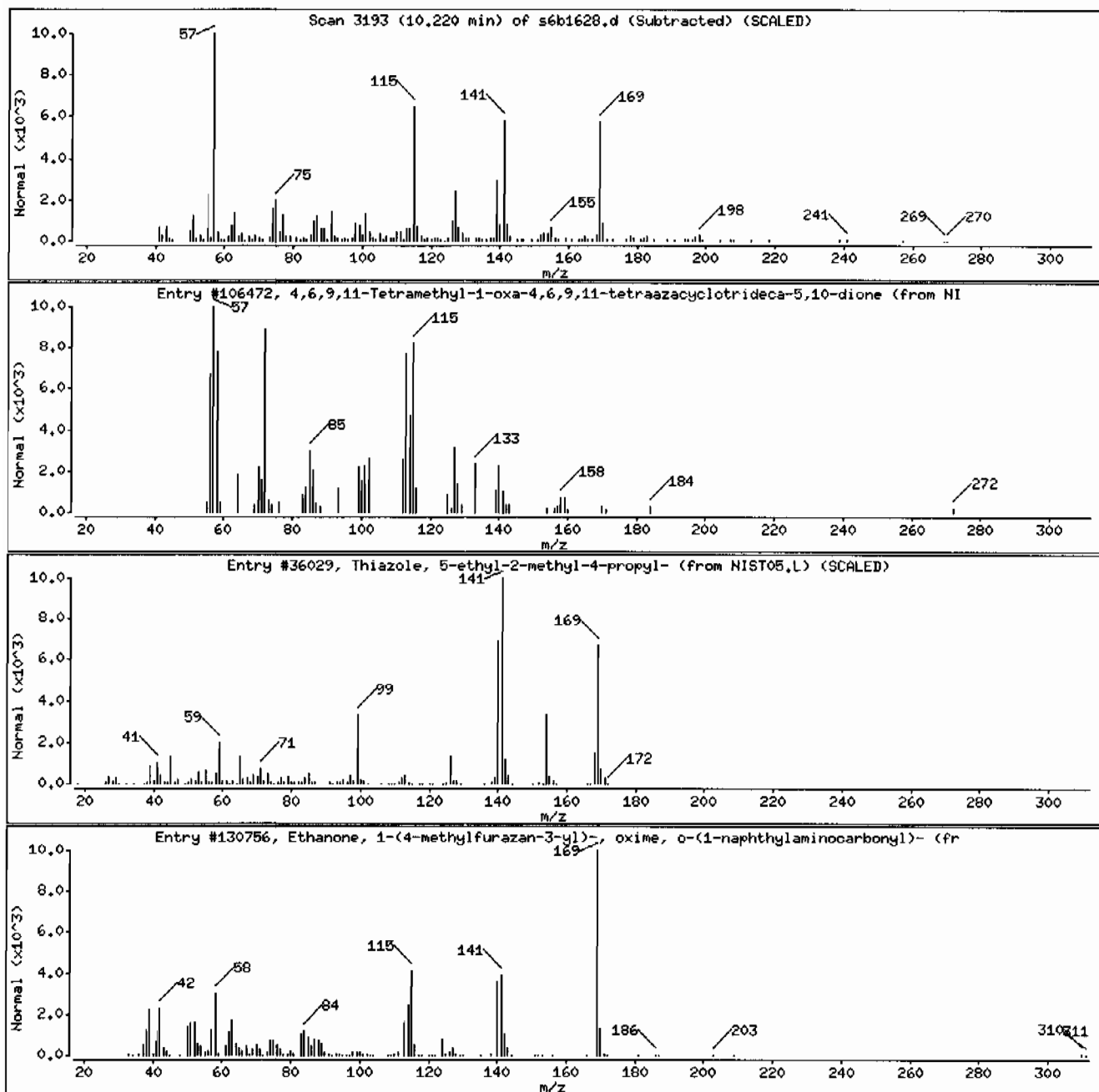
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
4,6,9,11-Tetramethyl-1-oxa-4,6,9,11-tetr	1000139-36-0	NIST05.L	106472	35	C12H24N4O3	272
Thiazole, 5-ethyl-2-methyl-4-propyl-	4276-67-9	NIST05.L	36029	35	C9H15NS	169
Ethanone, 1-(4-methylfuran-3-yl)-, oxi	1000264-78-3	NIST05.L	130756	27	C16H14N4O3	310



Date : 16-FEB-2010 23:21

Client ID: RE15-10-8324

Instrument: HSD6.i

Sample Info: 1246330010195044711SVH111LANL

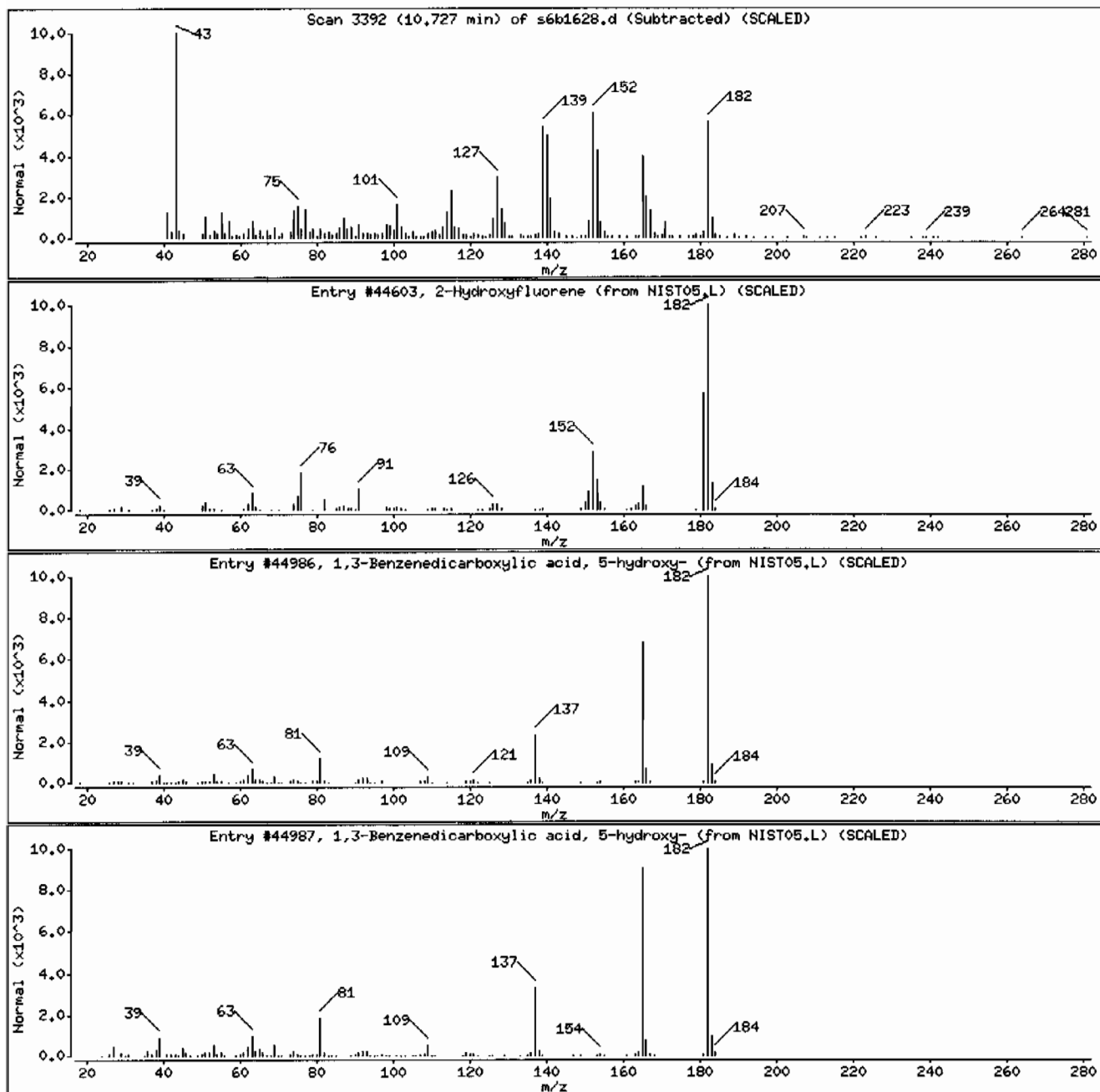
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Hydroxyfluorene	2443-58-5	NIST05.L	44603	43	C13H10O	182
1,3-Benzenedicarboxylic acid, 5-hydroxy-	618-83-7	NIST05.L	44986	20	C8H6O5	182
1,3-Benzenedicarboxylic acid, 5-hydroxy-	618-83-7	NIST05.L	44987	18	C8H6O5	182



Date : 16-FEB-2010 23:21

Client ID: RE15-10-8324

Instrument: MSD6.i

Sample Info: 1246330010195044711|SVM11|LANL

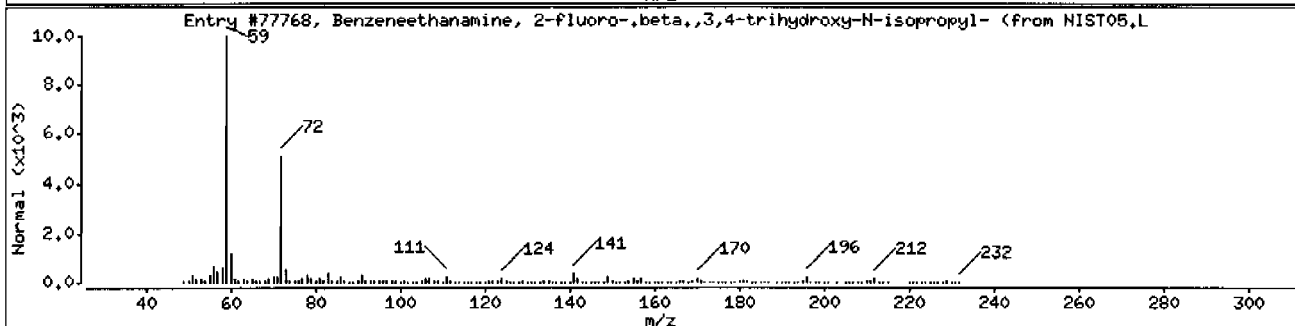
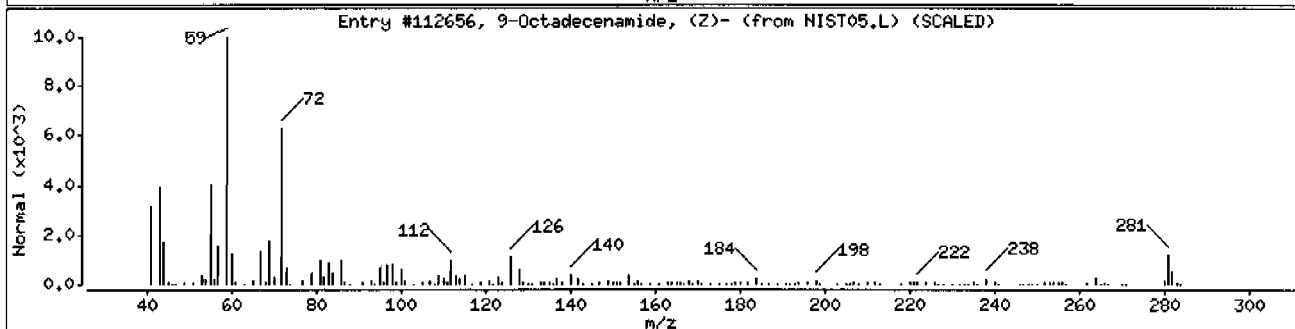
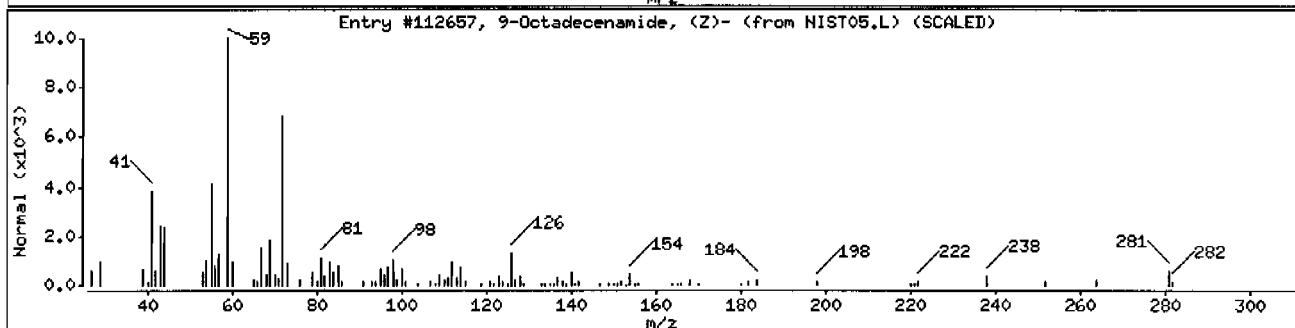
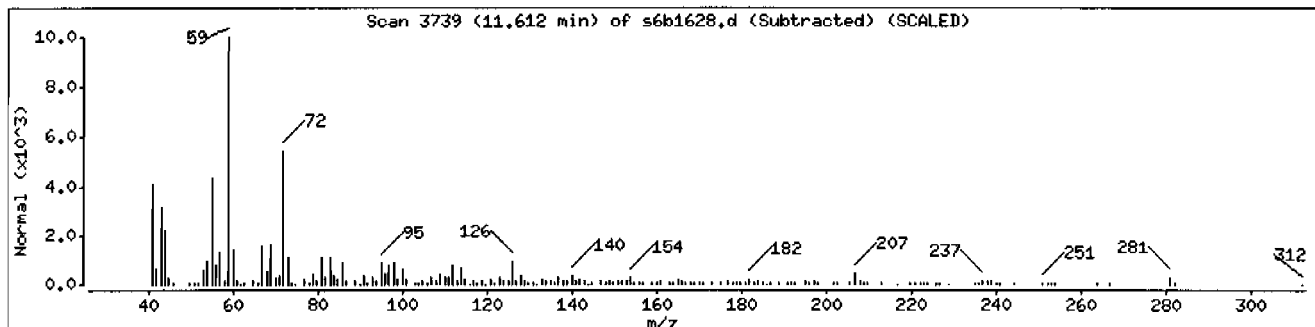
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112657	97	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112656	93	C18H35NO	281
Benzeneethanamine, 2-fluoro-,beta.,3,4-t	61338-98-5	NIST05.L	77768	64	C11H16FN03	229



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Client ID: RE15-10-8324

Instrument: MSD6.i

Sample Info: I246330010195044711ISVM11ILANL

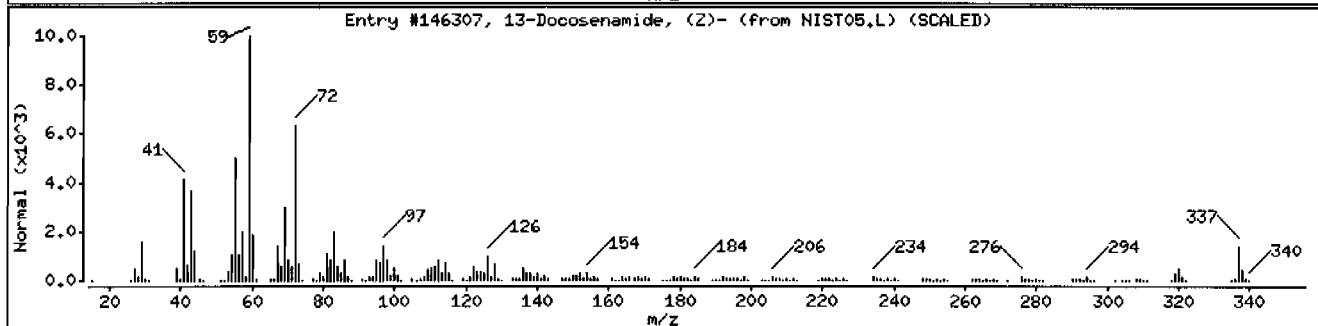
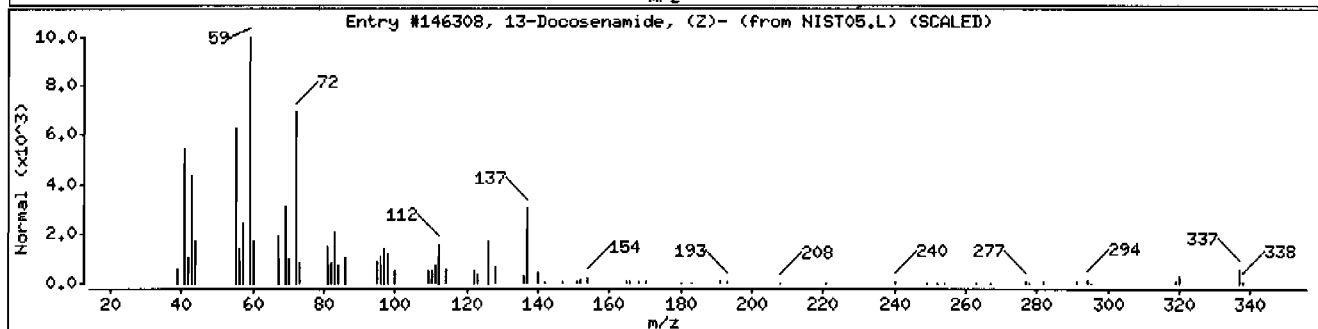
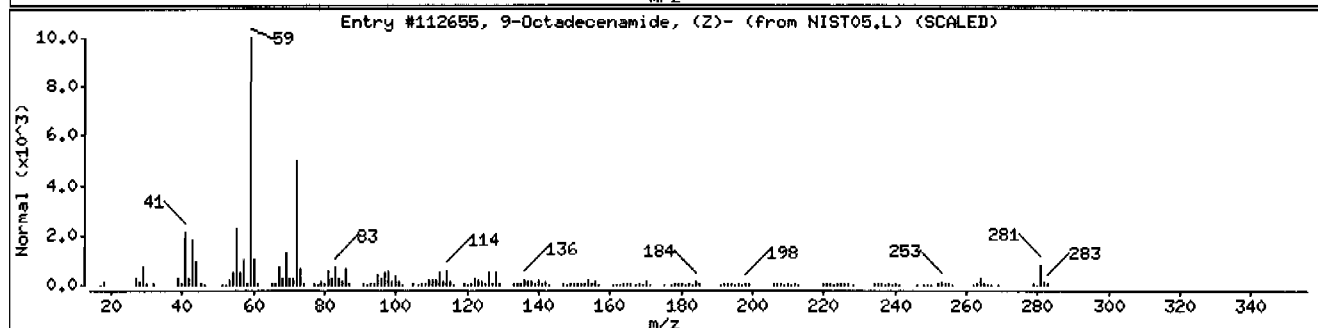
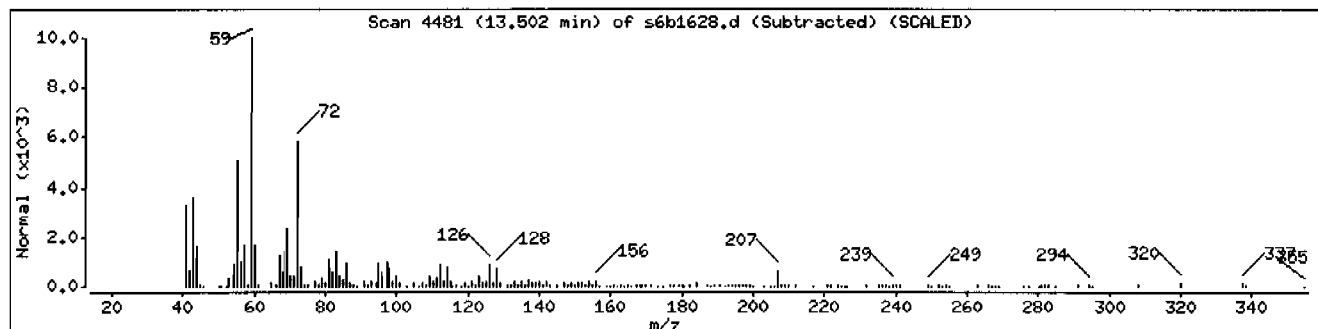
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112655	94	C18H35NO	281
13-Docosenamide, (Z)-	112-84-5	NIST05.L	146308	93	C22H43NO	337
13-Docosenamide, (Z)-	112-84-5	NIST05.L	146307	91	C22H43NO	337



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Client ID: RE15-10-8324

Instrument: MSD6.i

Sample Info: 12463300101950447111SVH111LANL

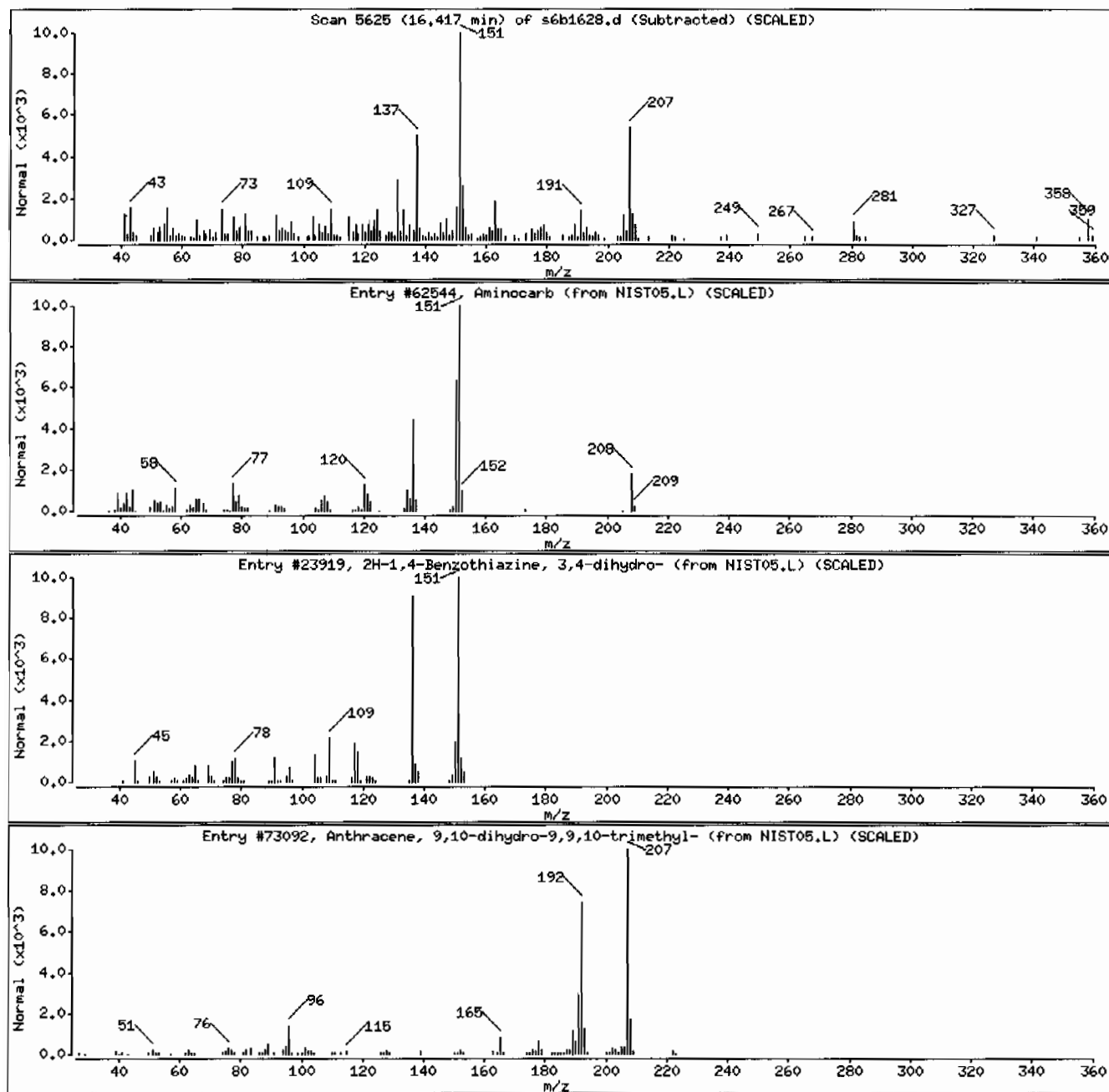
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Aminocarb	2032-59-9	NIST05.L	62544	30	C11H16N2O2	208
2H-1,4-Benzothiazine, 3,4-dihydro-	3080-99-7	NIST05.L	23919	25	C8H9NS	151
Anthracene, 9,10-dihydro-9,9,10-trimethyl-	14923-29-6	NIST05.L	73092	25	C17H18	222



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Client ID: RE15-10-8324

Instrument: MSD6.i

Sample Info: 1246330010195044711SVH11ILANL

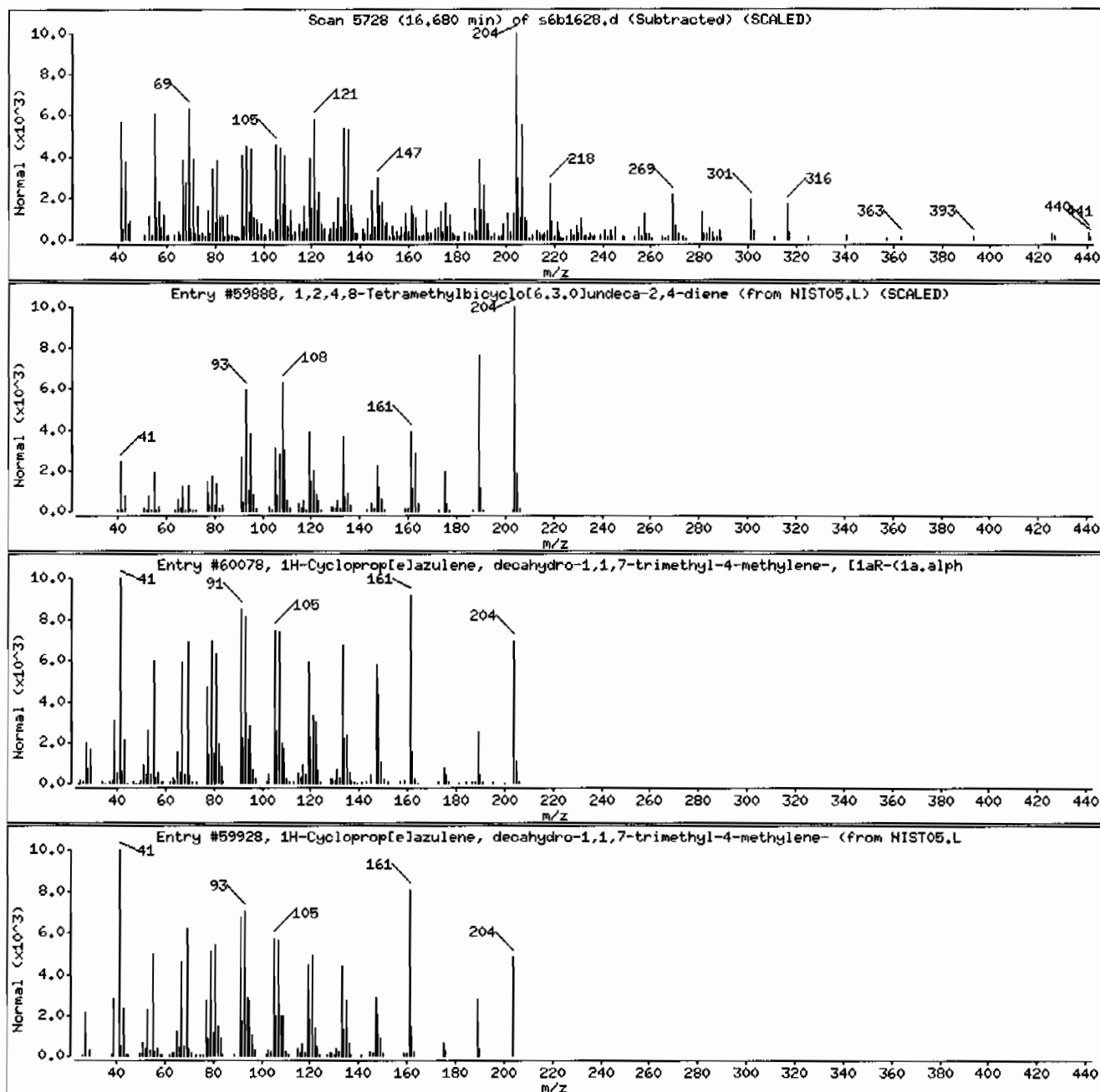
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-	137235-51-9	NIST05.L	59888	70	C ₁₅ H ₂₄	204
1H-Cycloprop[elazulene, decahydro-1,1,7-	489-39-4	NIST05.L	60078	60	C ₁₅ H ₂₄	204
1H-Cycloprop[elazulene, decahydro-1,1,7-	72747-25-2	NIST05.L	59928	58	C ₁₅ H ₂₄	204



Date: 16-FEB-2010 23:21

Client ID: RE15-10-8324

Instrument: MSD6.i

Sample Info: 1246330010195044711SVMI11LANL

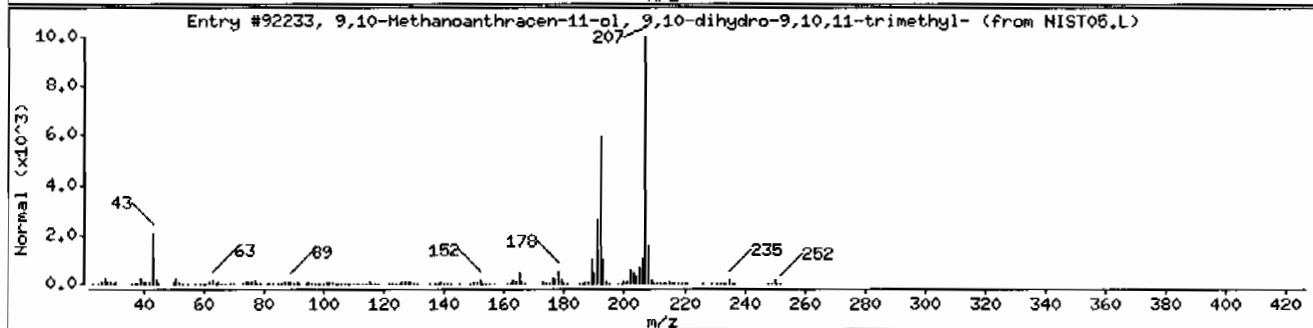
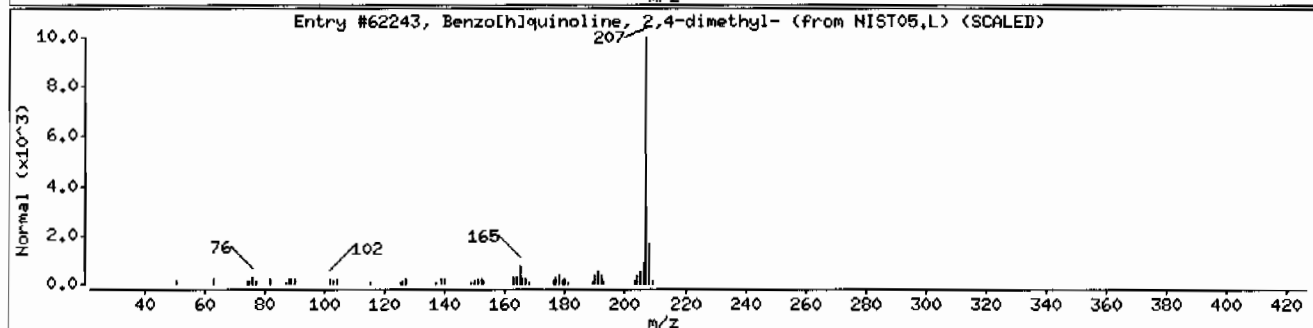
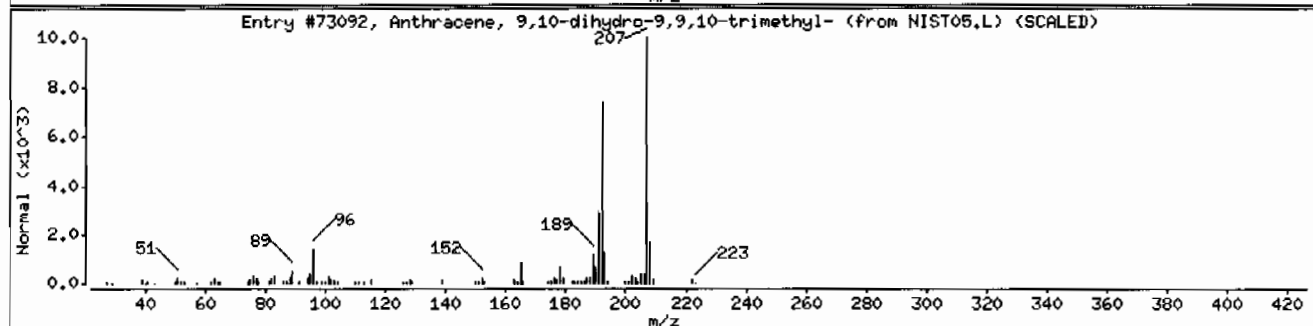
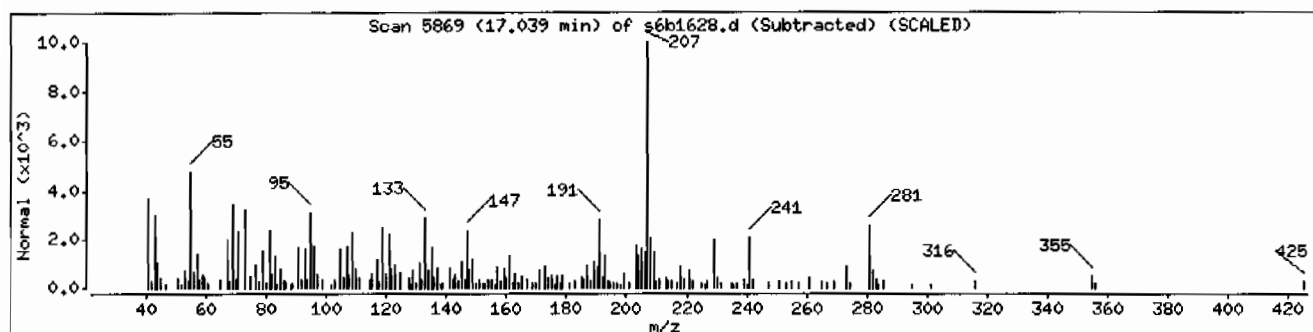
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Anthracene, 9,10-dihydro-9,9,10-trimethyl-	14923-29-6	NIST05.L	73092	46	C17H18	222
Benzo[h]quinoline, 2,4-dimethyl-	605-67-4	NIST05.L	62243	38	C15H13N	207
9,10-Methanoanthracen-11-ol, 9,10-dihydr	126615-74-5	NIST05.L	92233	38	C18H18O	250



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Client ID: RE15-10-8324

Instrument: MSD6.i

Sample Info: 1246330010195044711SVH111LANL

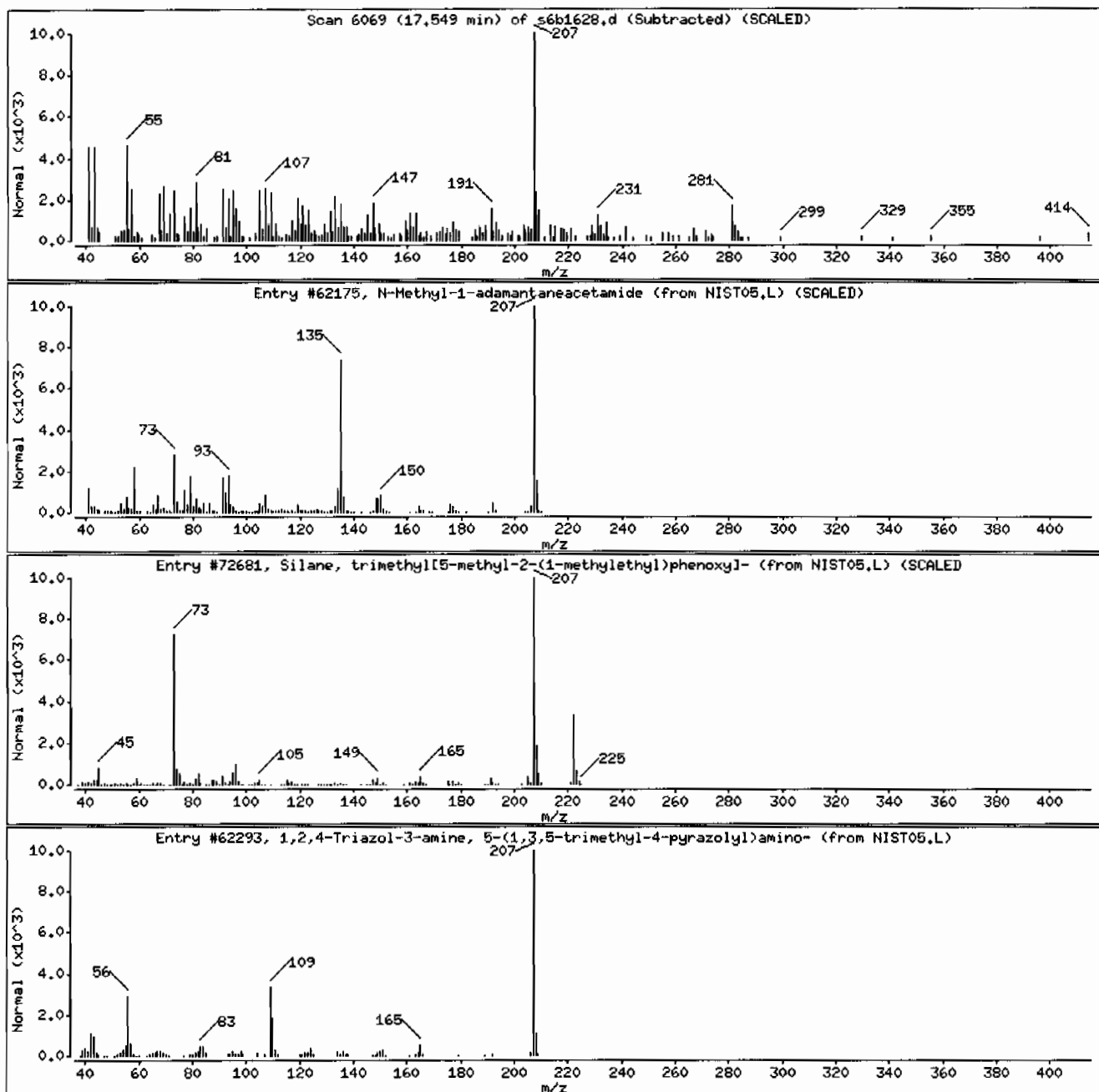
Volume Injected (uL): 0.5

Operator: nag1

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	45	C ₁₃ H ₂₁ N	207
Silane, trimethyl[5-methyl-2-(1-methylethyl)-	55012-80-1	NIST05.L	72681	38	C ₁₃ H ₂₂ OSi	222
1,2,4-Triazol-3-amine, 5-(1,3,5-trimethyl-4-pyrazolyl)amino-	1000264-16-7	NIST05.L	62293	35	C ₈ H ₁₃ N ₇	207



Date: 16-FEB-2010 23:21

Client ID: RE15-10-8324

Instrument: MSD6.i

Sample Info: 1246330010195044711SVMI11LANL

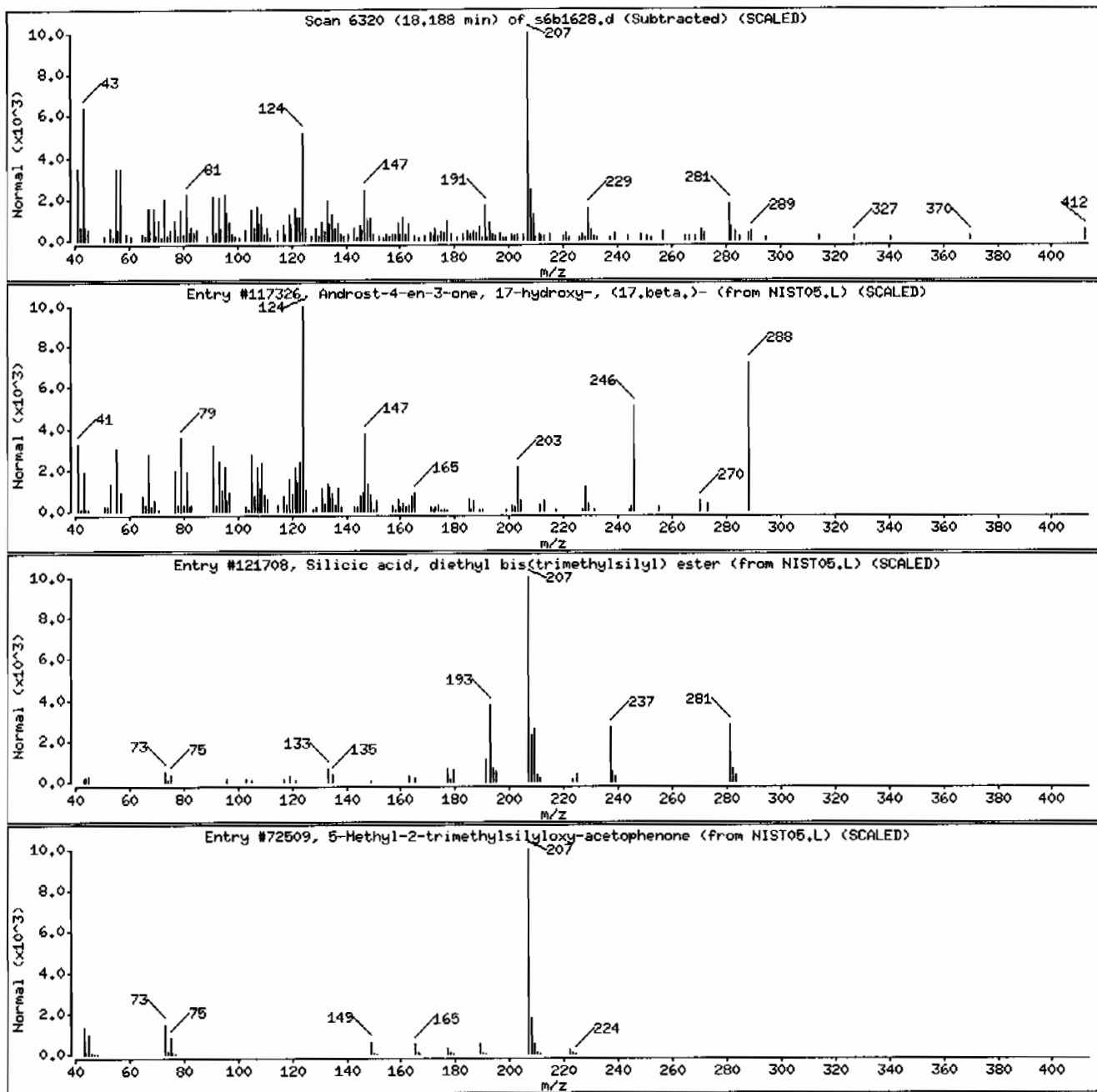
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Androst-4-en-3-one, 17-hydroxy-, (17.β)	58-22-0	NIST05.L	117326	55	C ₁₉ H ₂₈ O ₂	288
Silicic acid, diethyl bis(trimethylsilyl)	3555-45-1	NIST05.L	121708	43	C ₁₀ H ₂₈ O ₄ Si ₃	296
5-Methyl-2-trimethylsilyloxy-acetophenone	97389-69-0	NIST05.L	72509	38	C ₁₂ H ₁₈ O ₂ Si	222



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,i)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: 19-Feb-2010 09:39

Calibration History

Method : /chem/MSD4.i/s021810a.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 |
+-----+
|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 |
+-----+
|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 |
+-----+
|18-FEB-2010 17:40 |MEGA          |/chem/MSD4.i/s021810a.b/s4b1820.d|
+-----+
| Ccal Level: 4 , Ccal Amount: 40.0 |
+-----+
|18-FEB-2010 18:30 |PEST         |/chem/MSD4.i/s021810a.b/s4b1822.d|
+-----+
| Ccal Level: 4 , Ccal Amount: 40.0 |
+-----+
|18-FEB-2010 18:07 |AP12         |/chem/MSD4.i/s021810a.b/s4b1821.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/s021810a.b/MSD4-M8270C-AQA-021710.m
 Cal Date : 19-Feb-2010 07:44 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	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
1 N-Methyl-N-nitrosomethylamine	++++ 0.81877	0.80418 0.77310	0.85785	0.83980	0.82368	0.82845	AVRG		0.82083		3.28243
2 Pyridine	++++ 1.16851	1.09400 1.11137	1.16757	1.17533	1.15784	1.17410	AVRG				
4 Aniline	++++ 0.55684	0.56430 0.52778	0.58641	0.58402	0.56152	0.57033	AVRG		1.14982		2.87629
209 Benzaldehyde	++++ 0.75183	0.94179 0.69451	0.94566	0.91461	0.89926	++++	AVRG		0.56446		3.47645
6 Phenol	++++ 1.39841	1.48396 1.27213	1.58185	1.54422	1.47668	1.43163	AVRG		0.85795		12.51172
							AVRG		1.45555		7.01445

GEL Laboratories LLC

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 Method file : /chem/MSD4.i/s021810a.b/MSD4-M8270C-AQA-021710.m
 Cal Date : 19-Feb-2010 07:44 jos00786

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	RSD or R ²
	100	200									
	Level 7	Level 8									
7 bis(2-Chloroethyl) ether	0.934731	0.90382	0.95402	0.90084	0.87022	0.82025	AVRG		0.85752		10.08779
	0.777071	0.69920									
8 2-Chlorophenol	++++	1.16562	1.26471	1.25653	1.20113	1.19776	AVRG		1.19326		4.77116
	1.16785	1.09920									
203 n-Decane	++++	1.29375	1.27793	1.16954	1.07037	0.91611	AVRG		1.14554		13.68872
	++++	++++									
9 1,3-Dichlorobenzene	++++	1.27869	1.32765	1.29245	1.22850	1.12921	AVRG				
	1.08388	0.98449							1.18927		10.63494
11 1,4-Dichlorobenzene	++++	1.30910	1.36807	1.31235	1.23037	1.09872	AVRG				
	1.05734	0.96758							1.19193		12.71750
12 Benzyl alcohol	++++	0.47129	0.64378	0.69804	0.68487	0.74780	AVRG				
	0.72229	0.65983							0.66113		13.74141
13 1,2-Dichlorobenzene	++++	1.21731	1.23554	1.10205	1.01061	0.86196	AVRG				
	++++	++++							1.08549		14.25255
14 bis(2-Chloroisopropyl) ether	++++	1.77530	1.83342	1.72522	1.62425	1.51854	AVRG				
	1.43930	1.31379							1.60426		11.81975
15 o-Cresol	++++	1.01362	1.03371	0.90903	0.80709	0.76350	AVRG				
	0.73014	++++							0.87618		14.75629

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/s021810a.b/MSD4-M8270C-AQA-021710.m
 Cal Date : 19-Feb-2010 07:44 jos00786

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
	100	120									
	Level 7	Level 8									
16 Acetophenone	++++ 1.11721	1.27742 1.03412	1.28571	1.26833	1.27539	++++	AVRG		1.21136		8.97525
17 N-Nitrosodipropylamine	0.72496 0.81921	0.82527 0.73684	0.88410	0.86015	0.83602	0.83763	AVRG		0.81552		6.89055
18 m,p-Cresols	++++ 1.21648	1.12604 1.13757	1.24220	1.22722	1.18662	1.21213	AVRG		1.19261		3.76620
19 Hexachloroethane	++++ 0.41075	0.47152 0.38331	0.49032	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
 End Cal Date : 17-FEB-2010 20:54
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD4.i/s021810a.b/MSD4-M8270C-AQA-021710.m
 Cal Date : 19-Feb-2010 07:44 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
26 2,4-Dichlorophenol	++++ 0.23366	0.20723 0.22120	0.23055 0.22906	0.22906 0.22944	0.22944 0.24021	0.24021 AVRG	AVRG	0.22734	0.22734		4.63274
27 Benzoic acid	++++ 283629	++++ 318420	31319 318420	84119 318420	121130 318420	243867 318420	ILINR	0.32516	0.24917		0.99486
28 1,2,4-Trichlorobenzene	++++ 0.20919	0.25902 0.19569	0.26255 0.19569	0.23942 0.19569	0.23042 0.19569	0.22573 0.19569	AVRG	0.23172	0.23172		10.56957
30 Naphthalene	1.06631 ++++	0.98051 ++++	0.98310 ++++	0.88186 ++++	0.82227 ++++	0.76240 ++++	AVRG	0.91608	0.91608		12.42718
204 alpha-Terpineol	++++ 0.17224	0.22196 0.16167	0.22750 0.16167	0.20447 0.16167	0.19403 0.16167	0.18096 0.16167	AVRG	0.19469	0.19469		12.75386
31 4-Chloroaniline	++++ 0.40373	0.36469 0.37987	0.43602 0.37987	0.44386 0.37987	0.42563 0.37987	0.42485 0.37987	AVRG	0.41124	0.41124		7.21212
189 Caprolactam	++++ 0.09330	0.08357 0.08176	0.09284 0.08176	0.09719 0.08176	0.09770 0.08176	++++ 0.08176	AVRG	0.09106	0.09106		7.49038
32 Hexachlorobutadiene	++++ 0.10904	0.12040 0.10156	0.12555 0.10156	0.11981 0.10156	0.11624 0.10156	0.11342 0.10156	AVRG	0.11515	0.11515		6.94622
33 4-Chloro-3-methylphenol	++++ 0.24034	0.21139 0.22997	0.22419 0.22997	0.23112 0.22997	0.23100 0.22997	0.24555 0.22997	AVRG	0.23051	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/s021810a.b/MSD4-M8270C-AQA-021710.m
 Cal Date : 19-Feb-2010 07:44 jos00786

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	ml	m2	%RSD or R^2
	100	120									
	Level 7	Level 8									
34 2-Methylnaphthalene	0.60539 0.46587	0.60257 0.43568	0.61307	0.55152	0.52355	0.49788	AVRG		0.53694		12.59439
35 1-Methylnaphthalene	0.61404 0.44790	0.58191 0.41212	0.59642	0.53446	0.50694	0.48316	AVRG		0.52211		13.93272
36 Hexachlorocyclopentadiene	++++ 0.17659	0.18005 0.16149	0.20367	0.20303	0.18986	0.19678	AVRG		0.18735		8.28276
208 1,1'-Biphenyl	++++ 0.94001	1.24024 0.91844	1.30447	1.20609	1.18032	++++	AVRG		1.13159		14.34516
205 2,3-Dichloroaniline	++++ 0.41624	0.57465 ++++	0.59577	0.56469	0.53114	0.46018	AVRG		0.52378		13.52965
37 2,4,6-Trichlorophenol	++++ 0.20321	0.27613 ++++	0.28716	0.28673	0.26180	0.23912	AVRG		0.25903		12.65306
38 2,4,5-Trichlorophenol	++++ 0.26921	0.29783 0.23176	0.33607	0.33540	0.32419	0.30242	AVRG		0.29955		12.74968
40 2-Chloronaphthalene	1.08337	1.09248	1.07162	0.98498	0.92539	0.81187	AVRG		0.96029		14.23486
42 o-Nitroaniline	++++ 0.25679	0.75234 0.26633	0.27939	0.27744	0.26755	0.26837	AVRG		0.26586		4.44658

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/s021810a.b/MSD4-M8270C-AQA-021710.m
 Cal Date : 19-Feb-2010 07:44 jos00786

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	ml	m2	%RSD or R^2
	Level 7	Level 8									
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	1.18281	1.11730	1.07497	1.00754	AVRG		1.05863		10.71284
44 2,6-Dinitrotoluene	++++ 0.22203	0.27554 0.20846	0.28243	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	1.48739	1.33676	AVRG		1.46134		13.98756
47 Acenaphthene	1.17310 ++++	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

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/s021810a.b/MSD4-M8270C-AQA-021710.m
 Cal Date : 19-Feb-2010 07:44 jos00786

Compound	1	10	20	40	50	80	Curve	b	Coeficients m.	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
52 4-Nitrophenol	++++ 151829	8634 180675	22919	51530	66218	141247	LINR	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		9.28096
56 p-Nitroaniline	++++ 0.21242	0.19074 0.20920	0.14248	0.19133	0.18079	0.22623	AVRG		0.19331		14.09219
133 Diphenylamine	++++ 0.46362	0.63294 0.42647	0.58718	0.55648	0.53812	0.50056	AVRG		0.52934		13.49611
58 1,2-Diphenylhydrazine	++++ 0.60070	0.79439 0.58386	0.79164	0.72139	0.70540	0.63411	AVRG		0.69021		12.52148
59 Tributylphosphate	++++ 1.00083	1.41887 ++++	1.33083	1.23480	1.19530	1.09018	AVRG		1.21180		12.63123
61 4-Bromophenylphenylether	++++ 0.14157	0.19605 ++++	0.20149	0.18140	0.17572	0.15358	AVRG		0.17497		13.43356

GEL Laboratories LLC

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 Integrator : HP RTE
 Method file : /chem/MSD4.i/s021810a.b/MSD4-M8270C-AQA-021710.m
 Cal Date : 19-Feb-2010 07:44 jos00786

Compound	1	10	20	40	50	80	Curve	b	Coefficients ml	m2	RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
63 Hexachlorobenzene	++++	0.21893	0.21620	0.19320	0.18788	0.16547	AVRG		0.18879		14.30344
	0.15108	++++									
207 Atrazine	++++	0.04799	0.05161	0.05043	0.04680	++++	AVRG		0.04652		13.53806
	0.03578	++++									
65 Pentachlorophenol	+++	0.07342	0.09198	0.09190	0.09481	0.10184	AVRG		0.09256		10.08063
	0.10052	0.09343									
206 n-Octadecane	++++	0.50573	0.48522	0.39213	0.35974	0.29152	AVRG		0.36714		27.10026
	0.27543	0.26020									
68 Phenanthrene	1.16307	1.06026	1.06504	0.94403	0.89351	0.79560	AVRG		0.98692		13.56996
	++++	++++									
69 Anthracene	1.09158	1.10892	1.11777	0.96353	0.93487	0.79797	AVRG		1.00244		12.65560
	++++	++++									
72 Di-n-butylphthalate	++++	1.21045	1.24319	1.07041	1.00179	0.88540	AVRG		1.08225		13.68205
	++++	++++									
76 Fluoranthene	0.96471	1.03816	1.03945	0.91347	0.84058	0.74892	AVRG		0.92422		12.40687
	++++	++++									
77 Benzidine	++++	0.31152	0.27769	0.24474	0.34891	++++	AVRG		0.30518		14.46426
	0.34303	++++									

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 End Cal Date : 17-FEB-2010 20:54
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD4.i/s021810a.b/MSD4-M8270C-AQA-021710.m
 Cal Date : 19-Feb-2010 07:44 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									
79 Pyrene	1.18417	1.19596	1.19763	1.13694	1.18091	0.98310	AVRG		1.09018		11.54062
	0.94179	0.90396									
85 Butylbenzylphthalate	++++	0.52625	0.52238	0.45271	0.45022	0.36171	AVRG		0.46266		14.52117
	++++	++++									
89 Benzo(a)anthracene	0.97321	0.99775	0.99995	0.97301	0.90521	0.90155	AVRG		0.93727		5.90712
	0.89529	0.85221									
90 3,3'-Dichlorobenzidine	++++	0.24562	0.25334	0.29621	0.29123	++++	AVRG		0.26870		7.70295
	0.26751	0.25830									
92 Chrysene	1.12659	0.98604	1.01758	0.94487	0.95184	0.90419	AVRG		0.94297		11.38665
	0.82431	0.78838									
93 bis(2-Ethylhexyl)phthalate	0.55319	0.71676	0.77387	0.73808	0.73538	0.57922	AVRG		0.66314		14.94716
	0.54547	++++									
94 Di-n-octylphthalate	++++	1.06000	1.20352	1.30505	1.36606	1.16652	AVRG		1.19630		9.28091
	1.19415	1.07883									
95 Benzo(b)fluoranthene	0.83193	0.94367	0.94819	1.01941	0.96345	0.92745	AVRG		0.94362		5.97092
	0.99580	0.91907									
96 Benzo(k)fluoranthene	0.95209	0.94814	1.00798	0.95552	1.01516	0.96096	AVRG		0.95478		4.49317
	0.90744	0.89094									

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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
97 Benzo(a)pyrene	0.69771 0.81974	0.80448 0.79004	0.83988	0.84051	0.82813	0.83137	AVRG		0.80648		5.86182
99 Indeno(1,2,3-cd)pyrene	0.67344 0.68357	0.77380 0.69031	0.77700	0.76133	0.69140	0.74080	AVRG		0.72396		6.03300
100 Dibenzo(a,h)anthracene	0.51729 0.57370	0.63864 0.57932	0.63820	0.62774	0.57478	0.61755	AVRG		0.59590		7.08921
101 Benzo(ghi)perylene	0.59457 0.54542	0.64715 0.55969	0.63510	0.62324	0.56676	0.60200	AVRG		0.59674		6.22258
102 1,4-Dioxane	++++ 0.39943	0.43701 0.36164	0.44852	0.42721	0.43169	++++	AVRG		0.41759		7.63695
103 Methyl methacrylate	++++ 0.19919	0.21383 0.17245	0.22321	0.21645	0.21988	++++	AVRG		0.20750		9.18882
104 Ethyl methacrylate	++++ 0.80021	0.91879 0.71918	0.93126	0.88754	0.88037	++++	AVRG		0.85622		9.49222
105 2-Picoline	++++ 1.26976	1.47733 1.12301	1.50862	1.43210	1.41825	++++	AVRG		1.37151		10.71368
106 N-Nitrosomethylethylamine	++++ 0.59701	0.57675 0.58444	0.59802	0.59212	0.61345	++++	AVRG		0.59363		2.12418

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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
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	i	Level 1	10	Level 2	20	Level 3	40	Level 4	50	Level 5	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													
117 Triethylphosphorothioate	++++	0.10388	0.13138	0.13619	0.12493	0.12070	0.10932	AVRG						0.11725		12.9911
118 2,6-Dichlorophenol	++++	0.19860	0.18487	0.20729	0.20688	0.21343	++++	AVRG						0.20017		5.5353
119 Hexachloropropene	++++	76809	6213	14277	25557	44121	++++	LINR	0.05706	0.08815						0.9928
120 p-Phenylenediamine	++++	0.21308	0.22424	0.27453	0.23048	0.25311	++++	AVRG						0.23280		11.54278
121 N-Nitrosodi-n-butylamine	++++	0.18654	0.23924	0.21944	0.21484	0.21061	++++	AVRG						0.20854		10.44422
122 Safrrole	++++	0.16895	0.19035	0.19915	0.19251	0.19174	++++	AVRG						0.18358		8.65460
123 1,2,4,5-Tetrachlorobenzene	++++	0.29674	0.3486	0.37235	0.35699	0.36921	++++	AVRG						0.36842		11.39803
124 Isosafrole	++++	0.33882	0.32937	0.35799	0.35631	0.32421	++++	AVRG						0.35193		4.87519
125 1,4-Naphthoquinone	++++	0.26182	0.25760					AVRG						0.31478		14.21466

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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
	100 Level 7	120 Level 8									
126 m-Dinitrobenzene	++++	0.20126	0.21212	0.21006	0.20086	0.19834	AVRG		0.19719		6.99490
	0.18376	0.17393									
127 Pentachlorobenzene	++++	0.36147	0.36584	0.35110	0.33904	++++					
	0.28436	0.26326					AVRG		0.32751		13.16915
128 1-Naphthylamine	++++	0.91435	0.97977	0.91657	0.92502	++++					
	0.81151	0.75579					AVRG		0.88383		9.40234
129 2-Naphthylamine	++++	1.00383	1.07201	0.93930	0.94511	++++					
	0.85020	0.79412					AVRG		0.93409		10.77629
130 2,3,4,6-Tetrachlorophenol	++++	0.19124	0.21128	0.22902	0.23318	0.22215					
	0.21552	0.21028					AVRG		0.21610		6.46391
131 5-Nitro-o-toluidine	++++	0.23112	0.27932	0.27248	0.29398	++++					
	0.28148	0.28347					AVRG		0.27364		8.02960
132 Thionazin	++++	0.18285	0.18834	0.17846	0.17300	0.15904					
	0.15116	0.14315					AVRG		0.16800		10.16661
134 Sulfotepp	++++	0.13177	0.13059	0.11764	0.11040	0.09449					
	++++	++++					AVRG		0.11698		13.19951
135 Phorate	++++	0.51786	0.51840	0.48373	0.44687	0.39200					
	0.36398	++++					AVRG		0.45381		14.31736

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Compound	1	10	20	40	50	80	Curve	b	Coefficients m1	m2	RSD or R ²
136 1,3,5-Trinitrobenzene	++++ 86566	4852 113806	13462	26997	43144	++++	LINR	0.11919	0.12296		0.99947
137 Phenacetin	++++ 0.27930	0.24364 0.27370	0.28017	0.28177	0.30123	++++	AVRG		0.27663		6.75939
138 Diallyl	++++ 0.25464	0.34231 ++++	0.35600	0.33087	0.31611	++++	AVRG		0.31999		12.30262
139 Dimethoate	++++ 0.30234	0.32025 0.28390	0.33190	0.33278	0.32579	0.31322	AVRG		0.31574		5.59483
140 4-Aminobiphenyl	++++ 0.39500	0.58357 0.35668	0.58918	0.49357	0.55675	++++	AVRG		0.49579		20.10074
141 Pentachloronitrobenzene	++++ 0.04084	0.05346 ++++	0.05690	0.05795	0.05582	++++	AVRG		0.05299		13.19738
142 Pronamide	++++ 0.15026	0.27573 0.13287	0.28559	0.26119	0.22116	++++	AVRG		0.22113		29.69110
143 Dinoseb	++++ 0.13858	0.12009 0.12686	0.15073	0.15298	0.15310	0.14635	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	10	20	40	50	80	Curve	b	Coefficients ml	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
145 Methyl parathion	++++ 0.20924	0.21331 0.19247	0.23115	0.23535	0.22589	0.22988	AVRG		0.21961		6.97965
146 4-Nitroquinoline-1-oxide	++++ 0.01070	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		4.41932
148 Isodrin	++++ 0.07616	0.10394 ++++	0.10549	0.10192	0.09675	++++	AVRG		0.09685		12.41887
149 Atamite	++++ 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	10	20	40	50	80	Curve	b	Coefficients ml	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
154 Famphur	++++	0.32477	0.33787	0.33991	0.30795	0.31812	AVRG		0.31368		7.94057
	0.29871	0.26841									
155 2-Acetylaminofluorene	++++	0.22005	0.22331	0.29381	0.29224	++++					
	0.29521	0.29946					AVRG		0.27068		14.05582
157 7,12Dimethylbenz(a)anthracene	++++	0.40311	0.45332	0.44530	0.45829	++++					
	0.41903	0.39435					AVRG		0.42890		6.33054
158 3-Methylcholanthrene	++++	0.34591	0.36525	0.38823	0.39426	++++					
	0.38490	0.37939					AVRG		0.37631		4.75402
26 Phthalic anhydride	++++	0.03243	0.03910	0.06399	0.06930	0.08256					
	0.08617	0.08295					AVRG		0.06521		33.30166
173 Carbazole	9199	103126	125703	296392	404339	672443					
	756314	++++					LINR	-0.01291	0.69109		0.99415
174 Hexachlorophene	++++	0.03174	0.04319	0.03971	0.04046	0.03942					
	0.03930	++++					AVRG		0.03897		9.81378
179 Dibenzo(a,e)pyrene	++++	0.29736	0.25325	0.31477	0.26273	0.29083					
	0.24280	0.27708					AVRG		0.27697		9.28655
185 (2,3-Dibromopropyl)phosphate	++++	++++	++++	++++	++++	++++					
	++++	++++					AVRG		0.000e+00		0.000e+00

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Compound	1	10	20	40	50	80	Curve	b	Coefficients m1	m2	%RSD or R^2
184 p-Benzoinone	++++ 31388	705 36343	2799	8892	14980	23399	LINR	0.28674	0.10317		0.99336
191 Parathion	++++ 0.06637	0.07421 0.06361	0.07950	0.08071	0.07544	0.07054	AVRG		0.07291		8.80466
192 Methoxychlor	++++ 0.39248	0.44454 0.35727	0.50851	0.49917	0.47118	0.42407	AVRG		0.44246		12.55033
210 m-Toluidine	++++ 1.76029	1.73695 1.69321	1.55746	1.58094	1.66589	1.70837	AVRG		1.67187		4.58370
211 p-Toluidine	++++ 1.36404	1.01239 1.17184	1.35463	1.58657	1.43895	1.52710	AVRG		1.35079		14.84253
212 Cis Diallate	++++ 0.34172	0.34462 0.34617	0.36403	0.36133	0.37192	++++	AVRG		0.35497		3.49571
213 Trans Diallate	++++ 0.29958	0.40272 ++++	0.41883	0.38926	0.37289	++++	AVRG		0.37646		12.30262
214 i,4-Dinitrobenzene	++++ 0.20189	0.19649 0.19463	0.21088	0.21335	0.20967	0.21262	AVRG		0.20553		3.78486
215 2-Ethoxyethanol	++++ 0.59452	0.54819 0.57130	0.62615	0.62879	0.60257	0.60909	AVRG		0.59723		4.87528

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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
216 Methylenebis(2-chloroaniline)	++++ 122922	6144 132787	15434	38735	45971	113009	LINEAR	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-Chlorothiophenol	++++ 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	0.12504	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

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Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	ml	m2	or R ²
	100	120									
	Level 7	Level 8									
234 Hydroxymethyl phthalimide	++++	0.10740	0.10106	0.09874	0.09826	0.07684	AVRG		0.09302		14.33633
	0.07582	++++									
235 Phthalic acid	++++	0.01621	0.03767	0.05009	0.06595	0.07782	AVRG		0.06410		50.371101<-
	0.08975	0.11118									
236 Thiophenol	++++	1.03067	1.11649	1.22885	1.26443	1.18301	AVRG		1.14525		7.40274
	1.12687	1.06642									
237 bis (Chloromethyl) ether	++++	0.89985	0.82019	0.86064	0.86684	0.81882	AVRG		0.83160		5.70733
	0.79484	0.75999									
238 Octachlorostyrene	++++	0.07575	0.07412	0.07078	0.06803	0.05854	AVRG		0.06757		14.22227
	0.05421	++++									
239 Dibenzo(a,h)pyrene	++++	0.27824	0.28119	0.28194	++++	0.30474	AVRG		0.30560		11.34606
	0.31926	0.36821									
240 Benzo(j)fluoranthene	++++	0.78026	0.80293	0.79275	++++	0.79934	AVRG		0.77901		3.16722
	0.75685	0.74190									
241 Dibenzo(a,j)acridine	++++	0.55533	0.55827	0.55757	++++	0.53278	AVRG		0.55565		2.17858
	0.56144	0.56852									
242 Dibenzo(a,h)acridine	++++	0.55365	0.54501	0.54815	++++	0.53368	AVRG		0.55082		1.99452
	0.56140	0.56303									

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/s021810a.b/MSD4-M8270C-AQA-021710.m
 Cal Date : 19-Feb-2010 07:44 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
243 Quinoline	++++ 0.46695	0.55484 0.44650	0.58415	0.54458	++++	0.49996	AVRG		0.51616		10.41924
244 2,4-Toluene Diisocyanate	++++ 0.31981	0.37009 0.29701	0.39254	0.36282	++++	0.34089	AVRG		0.34719		10.08701
245 Dibenzo(a,i)pyrene	++++ 0.21050	0.16820 ++++	0.15467	0.17408	++++	0.18899	AVRG		0.17929		11.91220
246 1-Nitropyrene	++++ 136367	5444 128837	16162	41252	++++	64074	LINR	0.19997	0.17350		0.99020
247 5-Methylchrysene	++++ 0.46177	0.60386 0.44559	0.58519	0.56613	++++	0.51437	AVRG		0.52948		12.47937
248 Dibenzo(a,i)pyrene	++++ 0.29157	0.28921 0.32686	0.28347	0.27383	++++	0.28368	AVRG		0.29144		6.31538
249 7H-Dibenzo(c,g)carbazole	++++ 0.41424	0.37231 0.42310	0.38819	0.39189	++++	0.37956	AVRG		0.39488		5.02538
250 1-Hexanol	++++ 0.75944	0.24321 0.71193	0.87889	0.85379	++++	0.81367	AVRG		0.71016		33.33973
251 Propylene glycol	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00

GEL Laboratories LLC

INITIAL CALIBRATION DATA

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 Cal Date : 19-Feb-2010 07:44 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
M 222 Trichlorophenols	++++ 0.23621	0.28698 0.20896	0.31161	0.31106	0.29300	0.27077	AVRG		0.27408		14.12014
M 223 Tetrachlorophenols	++++ 0.21552	0.19124 0.21028	0.21128	0.22902	0.23318	0.22215	AVRG		0.21610		6.46391
M 224 Benzo(b,k)fluoranthene	0.89201 0.95162	0.94590 0.90501	0.97808	0.98746	0.98931	0.94420	AVRG		0.94920		3.81360
M 225 TTO Sum Semivolatiles	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
S 3 2-Fluorophenol	++++ 1.10132	1.11949 1.04464	1.20487	1.21075	1.16020	1.13727	AVRG		1.13979		5.14574
S 5 Phenol-d5	++++ 1.40127	1.41206 1.30188	1.54055	1.49175	1.43963	1.43622	AVRG		1.43191		5.23406
S 187 2-Chlorophenol-d4	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
S 188 1,2-Dichlorobenzene-d4	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
S 20 Nitrobenzene-d5	++++ 0.30734	0.30671 0.29410	0.31936	0.30528	0.30281	0.31459	AVRG		0.30717		2.64953

GEL Laboratories LLC

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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/s021810a.b/MSD4-M8270C-AQA-021710.m
 Cal Date : 19-Feb-2010 07:44 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
	Level 7	120 Level 8									
\$ 39 2-Fluorobiphenyl	++++ 0.81688	1.18516 ++++	1.18170	1.09032	1.03055	0.89228	AVRG		1.03281		14.68807
\$ 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-d14	++++ 0.55063	0.70671 0.51942	0.70628	0.66800	0.67922	0.54676	AVRG		0.62529		13.19917

GEL Laboratories LLC

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Cal Date : 19-Feb-2010 07:44 jos00786

Curve	Formula	Units
Averaged	$\text{Amt} = \text{Resp/ml}$	Response
Linear	$\text{Amt} = b + \text{Rsp/ml}$	Response

Report Date: 16-Feb-2010 16:19

Calibration History

Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
Start Cal Date: 09-NOV-2009 18:53
End Cal Date : 11-NOV-2009 04:38

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
09-NOV-2009 18:53	MEGA	/chem/MSD6.i/s110909.b/s6k0913.d
Cal Level: 2 , Cal Amount: 10.00000		
11-NOV-2009 01:47	NEV	/chem/MSD6.i/s110909.b/s6k0948.d
10-NOV-2009 22:55	HEX	/chem/MSD6.i/s110909.b/s6k0942.d
10-NOV-2009 16:20	PEST	/chem/MSD6.i/s110909.b/s6k0930.d
10-NOV-2009 11:59	AP12	/chem/MSD6.i/s110909.b/s6k0923.d
09-NOV-2009 19:31	MEGA	/chem/MSD6.i/s110909.b/s6k0914.d
Cal Level: 3 , Cal Amount: 20.00000		
11-NOV-2009 02:16	NEV	/chem/MSD6.i/s110909.b/s6k0949.d
10-NOV-2009 23:24	HEX	/chem/MSD6.i/s110909.b/s6k0943.d
10-NOV-2009 16:56	PEST	/chem/MSD6.i/s110909.b/s6k0931.d
10-NOV-2009 12:36	AP12	/chem/MSD6.i/s110909.b/s6k0924.d
09-NOV-2009 20:09	MEGA	/chem/MSD6.i/s110909.b/s6k0915.d
Cal Level: 4 , Cal Amount: 40.00000		
11-NOV-2009 02:44	NEV	/chem/MSD6.i/s110909.b/s6k0950.d
10-NOV-2009 23:53	HEX	/chem/MSD6.i/s110909.b/s6k0944.d
10-NOV-2009 17:33	PEST	/chem/MSD6.i/s110909.b/s6k0932.d
10-NOV-2009 13:13	AP12	/chem/MSD6.i/s110909.b/s6k0925.d
09-NOV-2009 20:46	MEGA	/chem/MSD6.i/s110909.b/s6k0916.d
Cal Level: 5 , Cal Amount: 50.00000		
11-NOV-2009 03:12	NEV	/chem/MSD6.i/s110909.b/s6k0951.d
11-NOV-2009 00:21	HEX	/chem/MSD6.i/s110909.b/s6k0945.d
10-NOV-2009 18:09	PEST	/chem/MSD6.i/s110909.b/s6k0933.d
10-NOV-2009 13:51	AP12	/chem/MSD6.i/s110909.b/s6k0926.d
09-NOV-2009 21:25	MEGA	/chem/MSD6.i/s110909.b/s6k0917.d
Cal Level: 6 , Cal Amount: 80.00000		
11-NOV-2009 03:41	NEV	/chem/MSD6.i/s110909.b/s6k0952.d
11-NOV-2009 00:50	HEX	/chem/MSD6.i/s110909.b/s6k0946.d
10-NOV-2009 18:45	PEST	/chem/MSD6.i/s110909.b/s6k0934.d
10-NOV-2009 14:30	AP12	/chem/MSD6.i/s110909.b/s6k0927.d
09-NOV-2009 22:01	MEGA	/chem/MSD6.i/s110909.b/s6k0918.d
Cal Level: 7 , Cal Amount: 100.00000		

11-NOV-2009 04:10	NEV	/chem/MSD6.i/s110909.b/s6k0953.d
11-NOV-2009 01:18	HEX	/chem/MSD6.i/s110909.b/s6k0947.d
10-NOV-2009 19:21	PEST	/chem/MSD6.i/s110909.b/s6k0935.d
10-NOV-2009 15:06	AP12	/chem/MSD6.i/s110909.b/s6k0928.d
09-NOV-2009 22:39	MEGA	/chem/MSD6.i/s110909.b/s6k0919.d

Cal Level: 8 , Cal Amount: 120.00000		
11-NOV-2009 04:38	NEV	/chem/MSD6.i/s110909.b/s6k0954.d
10-NOV-2009 19:58	PEST	/chem/MSD6.i/s110909.b/s6k0936.d
10-NOV-2009 15:43	AP12	/chem/MSD6.i/s110909.b/s6k0929.d
09-NOV-2009 23:16	MEGA	/chem/MSD6.i/s110909.b/s6k0920.d

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 40.0		
16-FEB-2010 14:28	AP12	/chem/MSD6.i/s021610.b/s6b1609.d
Ccal Level: 4 , Ccal Amount: 40.0		
16-FEB-2010 13:59	MEGA	/chem/MSD6.i/s021610.b/s6b1608.d
Ccal Level: 4 , Ccal Amount: 40.0		
16-FEB-2010 11:49	MEGA	/chem/MSD6.i/s021610.b/s6b1606.d
Ccal Level: 4 , Ccal Amount: 40.0		
16-FEB-2010 11:16	MEGA	/chem/MSD6.i/s021610.b/s6b1605.d
Ccal Level: 4 , Ccal Amount: 40.0		
16-FEB-2010 10:14	MEGA	/chem/MSD6.i/s021610.b/s6b1603.d

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 09-NOV-2009 18:53
 End Cal Date : 11-NOV-2009 04:38
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
 Cal Date : 16-Feb-2010 15:43 11o00884

Calibration File Names:

Level 1: /chem/MSD6.i/s110909.b/s6k0913.d
 Level 2: /chem/MSD6.i/s110909.b/s6k0948.d
 Level 3: /chem/MSD6.i/s110909.b/s6k0949.d
 Level 4: /chem/MSD6.i/s110909.b/s6k0950.d
 Level 5: /chem/MSD6.i/s110909.b/s6k0951.d
 Level 6: /chem/MSD6.i/s110909.b/s6k0952.d
 Level 7: /chem/MSD6.i/s110909.b/s6k0953.d
 Level 8: /chem/MSD6.i/s110909.b/s6k0954.d

Compound	1	10	20	40	50	80	Curve	b	Coefficients m1	m2	%RSD or R^2
1 N-Methyl-N-nitrosomethylamine	++++ 0.66245	0.62711 0.66663	0.72014	0.69994	0.71294	0.67761	AVRG		0.68098		4.78734
2 Pyridine	++++ 0.82190	0.78506 0.82246	0.84345	0.94451	0.94132	0.77430	AVRG				8.16958
4 Aniline	++++ 0.51849	0.51792 0.51247	0.56281	0.52949	0.53182	0.51964	AVRG		0.84757		3.21865
209 Benzaldehyde	++++ 0.79828	0.94297 0.74667	0.91161	0.92064	0.86617	0.84259	AVRG		0.52752		8.23824
6 Phenol	++++ 1.20107	1.29580 1.21677	1.38609	1.27955	1.27629	1.24279	AVRG		0.86127		4.82676

GEL Laboratories LLC

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 Method file : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
 Cal Date : 16-Feb-2010 15:43 11000884

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
7 bis(2-Chloroethyl) ether	0.93365	0.90056	0.92748	0.85273	0.86174	0.82247	AVRG		0.86081		6.48811
8 2-Chlorophenol	0.95375	1.05270	1.10343	1.04994	1.05384	0.99340	AVRG		1.02109		5.85808
203 n-Decane	0.95375	0.94058					AVRG		1.42254		11.98709
9 1,3-Dichlorobenzene	1.08668	1.22415	1.27608	1.20806	1.21136	1.14335	AVRG		1.17550		6.31837
11 1,4-Dichlorobenzene	1.09639	1.27202	1.32037	1.21925	1.20743	1.15141	AVRG		1.19162		7.54222
12 Benzyl alcohol	0.63021	0.60900	0.65716	0.63043	0.62465	0.64143	AVRG		0.63436		2.50657
13 1,2-Dichlorobenzene	1.03460	1.02472	1.21707	1.13327	1.12016	1.08966	AVRG		1.11231		6.21300
14 bis(2-Chloroisopropyl) ether	1.72252	2.07635	2.13325	1.99088	1.97675	1.86028	AVRG		1.92182		8.81925
15 o-Cresol	0.80386	0.82992	0.88629	0.84024	0.85639	0.80893	AVRG		0.83139		3.92027

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 Cal Date : 16-Feb-2010 15:43 11000884

Compound	1	10	20	40	50	80	Curve	b	Coefficients m1	m2	%RSD or R^2
16 Acetophenone	++++ 1.13524	1.20921 1.12939	1.17591	1.21169	1.15285	1.16925	AVRG		1.16908		2.80572
17 N-Nitrosodipropylamine	0.65638 0.70725	0.74117 0.59369	0.78851	0.72893	0.73002	0.72328	AVRG		0.70865		8.34285
18 m,p-Cresols	++++ 1.02399	1.03591 1.03632	1.12590	1.04958	1.05532	1.04720	AVRG		1.05346		3.18987
19 Hexachloroethane	++++ 0.43995	0.45806 0.43396	0.49524	0.47390	0.46960	0.45628	AVRG		0.46100		4.53111
21 Nitrobenzene	++++ 0.24823	0.31691 0.23966	0.32516	0.29885	0.29715	0.27038	AVRG		0.28519		11.62250
22 Isophorone	++++ 0.45829	0.55891 0.38358	0.57824	0.53268	0.53266	0.49425	AVRG		0.50552		13.23015
23 2-Nitrophenol	++++ 0.12072	0.13453 0.12047	0.14214	0.13601	0.13806	0.12888	AVRG		0.13154		6.43934
24 2,4-Dimethylphenol	++++ 0.21868	0.23987	0.22536	0.21067	0.20421	0.21065	AVRG		0.21795		5.40955
25 bis(2-Chloroethoxy)methane	++++ 0.26036	0.33208	0.34147	0.30906	0.30442	0.28195	AVRG		0.29749		11.40063

GEL Laboratories LLC

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 Cal Date : 16-Feb-2010 15:43 11000884

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	++++ 0.18142	0.19875 0.17985	0.21444	0.20921	0.20622	0.19391	AVRG		0.19769		6.80078
27 Benzoic acid	++++ 0.15049	++++ 0.14556	0.10585	0.12338	0.14032	0.14157	AVRG		0.13453		12.46641
28 1,2,4-Trichlorobenzene	++++ 0.21050	0.27809 0.20278	0.27557	0.25214	0.25046	0.22876	AVRG		0.24261		12.25857
30 Naphthalene	0.93577 ++++	0.85146 ++++	0.85267	0.76017	0.74029	0.64713	AVRG		0.79792		12.82401
204 alpha-Terpineol	++++ 0.17723	0.23577 ++++	0.25490	0.22003	0.21987	0.20427	AVRG		0.21868		12.15593
31 4-Chloroaniline	++++ 0.23771	0.26389 0.23114	0.28196	0.26991	0.26064	0.24995	AVRG		0.25646		7.00922
189 Caprolactam	++++ 0.07075	0.06766 0.07172	0.07272	0.08214	0.08102	0.07115	AVRG		0.07388		7.43636
32 Hexachlorobutadiene	++++ 0.10931	0.14265 0.10542	0.14557	0.13182	0.13097	0.11864	AVRG		0.12634		12.40746
33 4-Chloro-3-methylphenol	++++ 0.17957	0.20824 0.17303	0.22585	0.20971	0.20633	0.19424	AVRG		0.19957		9.25582

GEL Laboratories LLC
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 Cal Date : 16-Feb-2010 15:43 11000884

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 σ= R^2
34 2-Methylnaphthalene	0.56779 0.39981	0.53746 0.38884	0.54769 0.38884	0.49857 0.38884	0.47476 0.38884	0.43707 0.38884	AVRG		0.48150		14.15789
35 1-Methylnaphthalene	0.55872 0.38935	0.52838 0.38051	0.53208 0.38051	0.48366 0.38051	0.46920 0.38051	0.42612 0.38051	AVRG		0.47100		14.29869
36 Hexachlorocyclopentadiene	++++ 0.18308	0.13520 0.16783	0.17775 0.16783	0.15114 0.16783	0.16219 0.16783	0.15378 0.16783	AVRG		0.16157		10.19735
208 1,1'-Biphenyl	++++ 1.12776	1.32152 1.10528	1.23439 1.10528	1.25731 1.10528	1.19710 1.10528	1.16580 1.10528	AVRG		1.20131		6.32036
205 2,3-Dichloroaniline	++++ 0.42997	0.51880 0.43664	0.53286 0.43664	0.48272 0.43664	0.49159 0.43664	0.46096 0.43664	AVRG		0.47908		8.16477
37 2,4,6-Trichlorophenol	++++ 0.25242	0.27570 0.25556	0.29634 0.25556	0.28058 0.25556	0.28008 0.25556	0.26989 0.25556	AVRG		0.27294		5.58990
38 2,4,5-Trichlorophenol	++++ 0.28523	0.28031 0.28197	0.30282 0.28197	0.29443 0.28197	0.29832 0.28197	0.29160 0.28197	AVRG		0.29067		2.92500
40 2-Chloronaphthalene	0.91208 0.81926	0.94921 0.82647	0.97975 0.82647	0.90835 0.82647	0.91949 0.82647	0.87198 0.82647	AVRG		0.89832		6.24992
42 o-Nitroaniline	++++ 0.29539	0.28653 0.30412	0.32807 0.30412	0.30812 0.30412	0.31848 0.30412	0.31056 0.30412	AVRG		0.30732		4.50651

GEL Laboratories LLC

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 Cal Date : 16-Feb-2010 15:43 11000884

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
41 m-Nitroaniline	++++ 0.22216	0.19029 0.23314	0.23187	0.23025	0.23197	0.23511	AVRG		0.22497		7.03906
43 Dimethylphthalate	++++ 0.95493	1.10253 0.88796	1.11895	1.05121	1.05401	1.01311	AVRG		1.02610		7.97599
44 2,6-Dinitrotoluene	++++ 0.22903	0.24859 0.23656	0.25869	0.24751	0.24771	0.24514	AVRG		0.24475		3.87474
45 Acenaphthylene	1.45077 1.30118	1.53234 1.31187	1.59736	1.47314	1.47686	1.41153	AVRG		1.44438		7.03164
47 Acenaphthene	0.97754 0.82122	0.93463 0.83304	0.97051	0.90906	0.90733	0.85875	AVRG		0.90151		6.58830
48 2,4-Dinitrophenol	++++ 1.85455	++++ 1.31036	159201	456951	60199	121040	LINR	0.36255	0.13077		0.99262
49 Dibenzofuran	++++ 1.09035	1.31036 1.11352	1.35172	1.24091	1.23630	1.17505	AVRG		1.21689		7.96140
50 2,4-Dinitrotoluene	++++ 0.30077	0.28688 0.30301	0.32526	0.31392	0.31582	0.31468	AVRG		0.30862		4.09740
51 Diethylphthalate	++++ 0.93441	1.08427 0.95637	1.13193	1.06273	1.05585	1.00787	AVRG		1.03335		6.84784

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INITIAL CALIBRATION DATA

Start Cal Date : 09-NOV-2009 18:53
 End Cal Date : 11-NOV-2009 04:38
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
 Cal Date : 16-Feb-2010 15:43 11000884

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 Level 7	120 Level 8									
52 4-Nitrophenol	++++ 294363	12277 379687	405721	908021	114423	208122	LINR	0.18209	0.20146		0.99664
53 Fluorene	1.06940 0.89677	1.05468 0.90440	1.10259	1.00777	1.00699	0.94775	AVRG		0.99879		7.65829
54 4-Chlorophenylphenylether	++++ 0.43029	0.49941 0.42560	0.52344	0.48539	0.48490	0.45443	AVRG		0.47192		7.71070
55 2-Methyl-4,6-dinitrophenol	++++ 279188	9251 346834	343571	851681	107219	199515	LINR	0.17722	0.10780		0.99957
56 p-Nitroaniline	++++ 377942	182971 477974	499681	1144461	144020	267165	LINR	0.17663	0.25514		0.99741
133 Diphenylamine	++++ 0.45142	0.51235 0.45392	0.51279	0.48995	0.49110	0.46341	AVRG		0.48213		5.41113
58 1,2-Diphenylhydrazine	++++ 0.56393	0.65288 0.55466	0.67935	0.62730	0.62752	0.58724	AVRG		0.61327		7.55575
59 Tributylphosphate	++++ 1.19433	1.19922 1.14050	1.25332	1.24022	1.27997	1.24188	AVRG		1.22135		3.81011
61 4-Bromophenylphenylether	++++ 0.14977	0.16321 0.15022	0.16758	0.15949	0.16092	0.15366	AVRG		0.15784		4.30183

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 Cal Date : 16-Feb-2010 15:43 11000884

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m	m2	SRSD or R^2
63 Hexachlorobenzene	++++ 0.15730	0.17072 0.15822	0.17525	0.16702	0.16690	0.16190	AVRG		0.16533		3.97990
207 Atrazine	++++ 0.03746	0.04466 0.03425	0.04316	0.04336	0.04050	0.04104	AVRG		0.04063		9.04413
65 Pentachlorophenol	++++ 259470	12427 326879	38945	80211	100581	192628	LINR	0.13427	0.09964		0.99838
206 n-Octadecane	++++ 0.37377	0.51627 0.35992	0.51598	0.45832	0.46068	0.40718	AVRG		0.44173		14.37986
68 Phenanthrene	0.95060 0.73349	0.88603 0.72773	0.89746	0.83221	0.81673	0.77346	AVRG		0.82721		9.72714
69 Anthracene	0.87683 0.75133	0.86194 0.75196	0.90534	0.83970	0.83829	0.78921	AVRG		0.82682		6.91971
72 Di-n-butylphthalate	++++ 0.85606	1.00113 0.84350	1.04654	0.99105	0.98676	0.92173	AVRG		0.94954		8.15043
76 Fluoranthene	0.78392 0.73596	0.79487 0.73727	0.87026	0.82674	0.81613	0.77420	AVRG		0.79242		5.73137
77 Benzidine	++++ 0.39765	0.35813 0.44234	0.40641	0.39242	0.37729	0.37701	AVRG		0.39304		6.85454

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 Cal Date : 16-Feb-2010 15:43 11000884

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
79 Pyrene	1.12114 0.96007	1.31021 0.94734	1.22539 0.94734	1.10007 0.94734	1.11660 0.94734	1.02083 0.94734	AVRG		1.10021		11.38295
85 Butylbenzylphthalate	++++ 0.46906	0.52543 0.45845	0.54028 0.45845	0.51608 0.45845	0.52406 0.45845	0.49119 0.45845	AVRG		0.50351		6.16544
89 Benzo(a)anthracene	0.94221 0.82127	0.85505 0.83891	0.89830 0.83891	0.85692 0.83891	0.85716 0.83891	0.83423 0.83891	AVRG		0.86301		4.55256
90 3,3'-Dichlorobenzidine	++++ 0.28779	0.23529 0.30173	0.28074 0.30173	0.29290 0.30173	0.29384 0.30173	0.28532 0.30173	AVRG		0.28252		7.74710
92 Chrysene	0.87195 0.78155	0.83557 0.79409	0.87346 0.79409	0.82487 0.79409	0.82639 0.79409	0.80729 0.79409	AVRG		0.82690		4.03552
93 bis(2-Ethylhexyl)phthalate	7340 1389660	107837 1700943	270739 1700943	551016 1700943	645048 1700943	1078889 1700943	AVRG		0.82690		4.03552
94 Di-n-octylphthalate	++++ 1.27306	1.19610 1.15060	1.35485 1.15060	1.31605 1.15060	1.35770 1.15060	1.25055 1.15060	MLNR	0.01019	0.70092		0.99014
95 Benzo(b)fluoranthene	0.74161 0.89332	0.85750 0.91506	0.94279 0.91506	0.90432 0.91506	0.93361 0.91506	0.89239 0.91506	AVRG		1.27127		6.18607
96 Benzo(k)fluoranthene	0.73172 0.88010	0.86857 0.85909	0.95518 0.85909	0.92430 0.85909	0.92244 0.85909	0.89945 0.85909	AVRG		0.88507		7.19928
							AVRG		0.88011		7.72381

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 Cal Date : 16-Feb-2010 15:43 11000884

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
	100	120									
	Level 7	Level 8									
97 Benzo(a)pyrene	0.54179	0.70605	0.81133	0.81358	0.82559	0.80913	AVRG		0.76447		12.74919
	0.80179	0.80647									
99 Indeno(1,2,3-cd)pyrene	5888	60939	200863	402882	510813	1012558	LINR	0.07592	0.78768		0.99752
	1348903	1889688									
100 Dibenzo(a,h)anthracene	3385	46770	157194	361792	411532	815285	LINR	0.06768	0.63666		0.99908
	1094612	1529825									
101 Benzo(ghi)perylene	0.41694	0.53228	0.60870	0.60962	0.60436	0.63133	AVRG		0.58403		12.88683
	0.62968	0.63931									
102 1,4-Dioxane	++++	0.37671	0.37043	0.39061	0.37803	0.36375					
	0.35237	0.33052					AVRG		0.36606		5.38827
103 Methyl methacrylate	++++	0.19626	0.19646	0.20436	0.20625	0.18540					
	0.18964	0.17876					AVRG		0.19388		5.13081
104 Ethyl methacrylate	++++	0.79650	0.81192	0.84398	0.82898	0.80568					
	0.79571	0.75648					AVRG		0.80561		3.45659
105 2-Picoline	++++	1.39124	1.31746	1.36987	1.31904	1.28927					
	1.27506	1.19912					AVRG		1.30872		4.85814
106 N-Nitrosomethylethylamine	++++	0.50512	0.48970	0.52453	0.49928	0.51969					
	0.51463	0.52429					AVRG		0.51104		2.61826

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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
107 Methyl methanesulfonate	++++ 0.50923	0.56429 0.49498	0.53321	0.56316	0.50377	0.53102	AVRG		0.52852		5.24906
108 N-Nitrosodiethylamine	++++ 0.49304	0.50310 0.49722	0.47987	0.51154	0.48534	0.49862	AVRG		0.49553		2.15019
109 Ethyl Methanesulfonate	++++ 0.64399	0.65808 0.64860	0.64977	0.67344	0.62747	0.66045	AVRG		0.65169		2.21442
110 Pentachloroethane	++++ 0.31148	0.32209 0.30303	0.31386	0.33094	0.32010	0.31614	AVRG		0.31681		2.78134
111 N-Nitrosopyrrolidine	++++ 0.49385	0.44182 0.44606	0.46376	0.50830	0.47779	0.50143	AVRG		0.47614		5.57640
113 N-Nitrosomorpholine	++++ 0.65974	0.71032 0.65547	0.67134	0.71256	0.65887	0.68726	AVRG		0.67936		3.58698
114 o-Toluidine	++++ 1.58070	1.74797 1.56178	1.65530	1.71709	1.64005	1.64679	AVRG		1.65282		3.79762
115 N-Nitrosopiperidine	++++ 0.13997	0.13834 0.14373	0.13623	0.14736	0.13885	0.14290	AVRG		0.14205		2.69891
116 a,a-Dimethylphenethylamine	++++ 0.86623	0.78770 0.87565	0.81587	0.88476	0.87463	0.88336	AVRG		0.85546		4.44785

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 Cal Date : 16-Feb-2010 15:43 11000884

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	++++ 0.12857	0.14741 0.12370	0.14492	0.13783	0.14116	0.13439	AVRG		0.13685		6.28357
118 2,6-Dichlorophenol	++++ 0.20568	0.19682 0.21118	0.19992	0.21240	0.20960	0.21251	AVRG		0.20687		3.05257
119 Hexachloropropene	++++ 0.10654	0.08644 0.11112	0.09499	0.10791	0.10350	0.10830	AVRG		0.10269		8.60612
120 p-Phenylenediamine	++++ 0.22043	0.19714 0.21678	0.24091	0.25567	0.24421	0.23168	AVRG		0.22955		8.57933
121 N-Nitrosodi-n-butylamine	++++ 0.19348	0.22447 0.19524	0.22501	0.22216	0.21154	0.19839	AVRG		0.21004		6.76180
122 Safrole	++++ 0.17956	0.18675 0.17958	0.18585	0.19677	0.19040	0.18675	AVRG		0.18653		3.22597
123 1,2,4,5-Tetrachlorobenzene	++++ 0.40609	0.45393 0.40229	0.42422	0.44255	0.41650	0.41676	AVRG		0.42319		4.45863
124 Isosafrole	++++ 0.33627	0.34011 0.33702	0.33198	0.35164	0.33779	0.34233	AVRG		0.33959		1.83025
125 1,4-Naphthoquinone	++++ 0.28366	0.30018 0.26235	0.32824	0.34894	0.32634	0.29745	AVRG		0.30674		9.65282

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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
	100	120									
	Level 7	Level 8									
126 m-Dinitrobenzene	++++ 0.16754	0.15441 0.16904	0.17500	0.17160	0.17355	0.17392	AVRG		0.16929		4.19006
127 Pentachlorobenzene	++++ 0.35182	0.38426 0.35035	0.36575	0.37736	0.36552	0.35674	AVRG		0.36454		3.50537
128 1-Naphthylamine	++++ 0.86367	0.90674 0.88454	0.92102	0.95184	0.91692	0.90718	AVRG		0.90742		3.07978
129 2-Naphthylamine	++++ 0.93471	0.96578 0.95520	1.00999	1.02440	0.99125	0.97953	AVRG		0.98012		3.19024
130 2,3,4,6-Tetrachlorophenol	++++ 0.21460	0.20640 0.22254	0.23481	0.21862	0.21374	0.22201	AVRG		0.21896		4.07356
131 5-Nitro-o-toluidine	++++ 0.28841	0.22084 0.30508	0.26615	0.28994	0.25013	0.29251	AVRG		0.27901		10.07623
132 Thionazin	++++ 0.16987	0.16760 0.16398	0.17396	0.17237	0.17849	0.17822	AVRG		0.17207		3.11896
134 Sulfotep	++++ 0.08265	0.08934 0.08005	0.08802	0.08507	0.08886	0.08655	AVRG		0.08579		4.00843
135 Phorate	++++ 0.35020	0.38230 0.32660	0.38968	0.37391	0.38904	0.37359	AVRG		0.36933		6.25438

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Compound	1	10	20	40	50	80	Curve	b	Coeficients m1	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
136 1,3,5-Trinitrobenzene	++++	14861	45341	104071	130665	222134					
	265730	408609					LINR	0.09141	0.12978		0.99734
137 Phenacetin	++++	0.21732	0.25812	0.27209	0.26902	0.27044					
	0.26738	0.28241					AVRG		0.26240		8.05167
138 Diallyate	++++	0.26191	0.24374	0.25182	0.23998	0.23522					
	0.22716	0.22410					AVRG		0.24056		5.55643
139 Dimethoate	++++	0.18955	0.19806	0.21061	0.22946	0.23158					
	0.22398	0.21950					AVRG		0.21468		7.45885
140 4-Aminobiphenyl	++++	0.50489	0.50584	0.54599	0.56556	0.56494					
	0.53276	0.52934					AVRG		0.53562		4.66298
141 Pentachloronitrobenzene	++++	0.06195	0.06081	0.06546	0.06329	0.06151					
	0.06084	0.05959					AVRG		0.06192		3.12402
142 Pronamide	++++	0.26962	0.26582	0.27431	0.26759	0.26151					
	0.25173	0.25174					AVRG		0.26319		3.31411
143 Dlnoseb	++++	11996	47856	123552	154632	280906					
	375481	479562					LINR	0.15482	0.14736		0.99949
144 Disulfoton	++++	0.31933	0.32969	0.31920	0.32975	0.31125					
	0.29624	0.27823					AVRG		0.31196		6.02930

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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									
145 Methyl parathion	++++	0.14493	0.15978	0.17270	0.18140	0.18775					
	0.18141	0.17864					AVRG		0.17237		8.70434
146 4-Nitroquinoline-1-oxide	++++	0.02012	0.03296	0.02700	0.02533	0.02224					
	0.01930	0.01750					AVRG		0.02349		22.76469
147 Methapyrilene	++++	0.40623	0.42209	0.41103	0.39768	0.37937					
	0.35132	0.33430					AVRG		0.38600		8.45747
148 Isodrin	++++	0.10136	0.09753	0.10130	0.09757	0.09481					
	0.09122	0.09037					AVRG		0.09631		4.58453
149 Atamite	++++	0.03841	0.04251	0.04600	0.04566	0.04690					
	0.04564	0.04428					AVRG		0.04420		6.60357
150 Kepone	++++	0.05674	0.06191	0.06311	0.06098	0.06085					
	0.06194	0.06656					AVRG		0.06173		4.75009
151 p-(Dimethylamino)azobenzene	++++	0.31224	0.31378	0.33288	0.32474	0.31931					
	0.31446	0.30396					AVRG		0.31734		2.95033
152 Chlorobenzilate	++++	0.30009	0.27506	0.30295	0.29512	0.29377					
	0.29203	0.28006					AVRG		0.29130		3.50189
153 3,3'-Dimethylbenzidine	++++	0.49489	0.52397	0.53487	0.52482	0.53397					
	0.53619	0.54473					AVRG		0.52763		3.04743

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 Cal Date : 16-Feb-2010 15:43 11o00884

Compound	1	10	20	40	50	80	Curve	b	ml	m2	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
154 Famphur	++++	0.28850	0.33742	0.33640	0.36516	0.37704	AVRG		0.34203		8.41381
	0.35655	0.33317									
155 2-Acetylaminofluorene	++++	23996	98558	217618	290992	478700	LINR	0.12414	0.37309		0.99874
	598627	953419									
157 7,12Dimethylbenz(a)anthracene	++++	0.45745	0.44941	0.48919	0.48420	0.49542	AVRG		0.47906		3.80416
	0.49422	0.48353									
158 3-Methylcholanthrene	++++	0.29343	0.35502	0.37871	0.37695	0.38953	AVRG		0.36955		9.94080
	0.38995	0.40328									
26 Phthalic anhydride	++++	10939	40864	83487	108159	203846	LINR	0.14938	0.09004		0.99590
	306459	++++									
173 Carbazole	0.68572	0.63216	0.65059	0.65023	0.64669	0.65901	AVRG		0.65449		2.32370
	0.65208	0.65947									
174 Hexachlorophene	++++	0.04700	0.06194	0.06687	0.06701	0.06606	AVRG		0.06178		13.78238
	++++	++++									
179 Dibenzo(a,e)pyrene	++++	21397	67635	183254	214017	467062	LINR	0.16800	0.36891		0.99459
	++++	++++									
185 (2,3-Dibromopropyl)phosphate	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
	++++	++++									

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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									
184 p-Benzquinone	++++ 0.12211	0.09983 0.12583	0.11502	0.14598	0.13665	0.14571	AVRG		0.12730		13.25929
191 Parathion	++++ 0.06253	0.05089 0.06173	0.05709	0.06102	0.06360	0.06315	AVRG		0.06000		7.60183
192 Methoxychlor	++++ 0.49223	0.54663 0.53082	0.59527	0.57022	0.57190	0.55995	AVRG		0.55243		6.05482
210 m-Toluidine	++++ 1.39731	1.07152 0.92523	1.09862	1.08267	1.09477	1.19760	AVRG		1.12396		12.87193
211 p-Toluidine	++++ 0.67790	0.98878 ++++	1.01175	0.93629	0.93823	0.84629	AVRG		0.89987		13.64283
212 Cis Diallyl	++++ 0.24871	0.25680 0.25860	0.24216	0.25774	0.25015	0.25647	AVRG		0.25295		2.41779
213 Trans Diallyl	++++ 0.26725	0.30813 0.26364	0.28675	0.29626	0.28232	0.27673	AVRG		0.28301		5.55643
214 1,4-Dinitrobenzene	++++ 0.18381	0.15465 0.19324	0.18602	0.18671	0.19154	0.19074	AVRG		0.18382		7.23195
215 2-Ethoxyethanol	++++ 0.68979	0.69474 0.68463	0.75708	0.72314	0.72734	0.69576	AVRG		0.71035		3.71426

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 09-NOV-2009 18:53
 End Cal Date : 11-NOV-2009 04:38
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
 Cal Date : 16-Feb-2010 15:43 11o00884

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
216 Methylenabis(2-chloroaniline)	++++ 306702	116221 394688	375261	942701	1172961	2267741	LINR	0.14094	0.14618		0.999201
229 2,2'-Dichlorobenzil	++++ 0.796351	0.65548 ++++	0.70788	0.67278	++++	0.855571	AVRG		0.73761		11.582741
230 4-Chlorothiobanazole	++++ 828249	655051 ++++	1201001	2753071	++++	7276151	LINR	0.136231	0.306651		0.993471
231 4-Chlorothiophenol	++++ 683100	149551 ++++	498901	1957881	++++	5937061	LINR	0.293801	0.271761		0.992191
232 bis(p-Chlorophenyl)sulfone	++++ 0.448321	0.419111 ++++	0.420981	0.389091	++++	0.486051	AVRG		0.432711		8.423061
233 bis(p-Chlorophenyl)disulfide	++++ 0.208061	0.196441 ++++	0.209131	0.182441	++++	0.225941	AVRG		0.204401		7.909201
234 Diphenyl disulfide	++++ 0.235951	0.200781 ++++	0.214011	0.199111	++++	0.247591	AVRG		0.219491		9.813341
235 Diphenyl sulfide	++++ 0.820351	0.775371 ++++	0.760821	0.735381	++++	0.863931	AVRG		0.791171		6.454151
236 Phenyl sulfone	++++ 0.471141	0.432201 ++++	0.431021	0.409941	++++	0.503041	AVRG		0.449471		8.280321

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 09-NOV-2009 18:53
 End Cal Date : 11-NOV-2009 04:38
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
 Cal Date : 16-Feb-2010 15:43 11o00884

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
237 Hydroxymethyl phthalimide	++++ 0.17963	0.14671 ++++	0.15531 ++++	0.12673 ++++	0.19818 ++++	0.19818 AVRG	AVRG		0.16131		17.368131<-
238 Phthalic acid	++++ 402020	13646 ++++	40994	115933	++++	343308	LINR	0.25337	0.15547		0.99358
239 Thiophenol	++++ 1046955	41092 ++++	104698	327879	++++	922601	LINR	0.23456	1.46946		0.99364
240 bis(Chloromethyl)ether	++++ 1.05711	1.01755 ++++	1.00429	0.94829	++++	1.10480	AVRG		1.02641		5.71407
241 Octachlorostyrene	++++ 0.07072	0.06097 ++++	0.06109	0.05953	++++	0.07399	AVRG		0.06526		10.12747
225 Trichlorophenols	++++ 0.26883	0.27800 0.26877	0.29958	0.28751	0.28920	0.28074	AVRG		0.28180		3.98593
226 Tetrachlorophenols	++++ 0.21460	0.20640 0.22254	0.23481	0.21862	0.21374	0.22201	AVRG		0.21896		4.07356
227 Benzo(b,k)fluoranthene	0.73667	0.86303	0.94898	0.91431	0.92802	0.89592	AVRG		0.88259		7.33906
228 TTO Sum Semivolatiles	++++ ++++	0.88707 ++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00 <-

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 09-NOV-2009 18:53
 End Cal Date : 11-NOV-2009 04:38
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
 Cal Date : 16-Feb-2010 15:43 11o00884

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									
\$ 3 2-Fluorophenol	++++	0.98202	1.07204	1.02934	1.03017	0.98830	AVRG		1.00169		4.36295
	0.95348	0.95648									
\$ 5 Phenol-d5	++++	1.23734	1.34586	1.27212	1.28456	1.26316	AVRG		1.26427		3.41674
	1.22407	1.22277									
\$ 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	++++	0.30745	0.31426	0.29453	0.29315	0.27101	AVRG		0.28296		9.27927
	0.25359	0.24671									
\$ 39 2-Fluorobiphenyl	++++	1.11512	1.14628	1.04977	1.05601	0.99136	AVRG		1.03083		8.29816
	0.92488	0.93239									
\$ 60 2,4,6-Tribromophenol	++++	0.10485	0.11685	0.11180	0.11267	0.12310	AVRG		0.11675		6.41378
	0.12190	0.12607									
\$ 81 p-Terphenyl-d14	++++	0.71309	0.69797	0.64349	0.65522	0.61764	AVRG		0.64507		7.73004
	0.59401	0.58404									

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 09-NOV-2009 18:53
End Cal Date : 11-NOV-2009 04:38
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
Cal Date : 16-Feb-2010 15:43 11000884

Curve	Formula	Units
Averaged	Ant = Rsp/ml	Response
Linear	Ant = b + Rsp/ml	Response
Wt 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 Saffrole	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 Isosaffrole	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

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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
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	ON-COL
							(ng/ul)	(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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						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	6.945	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

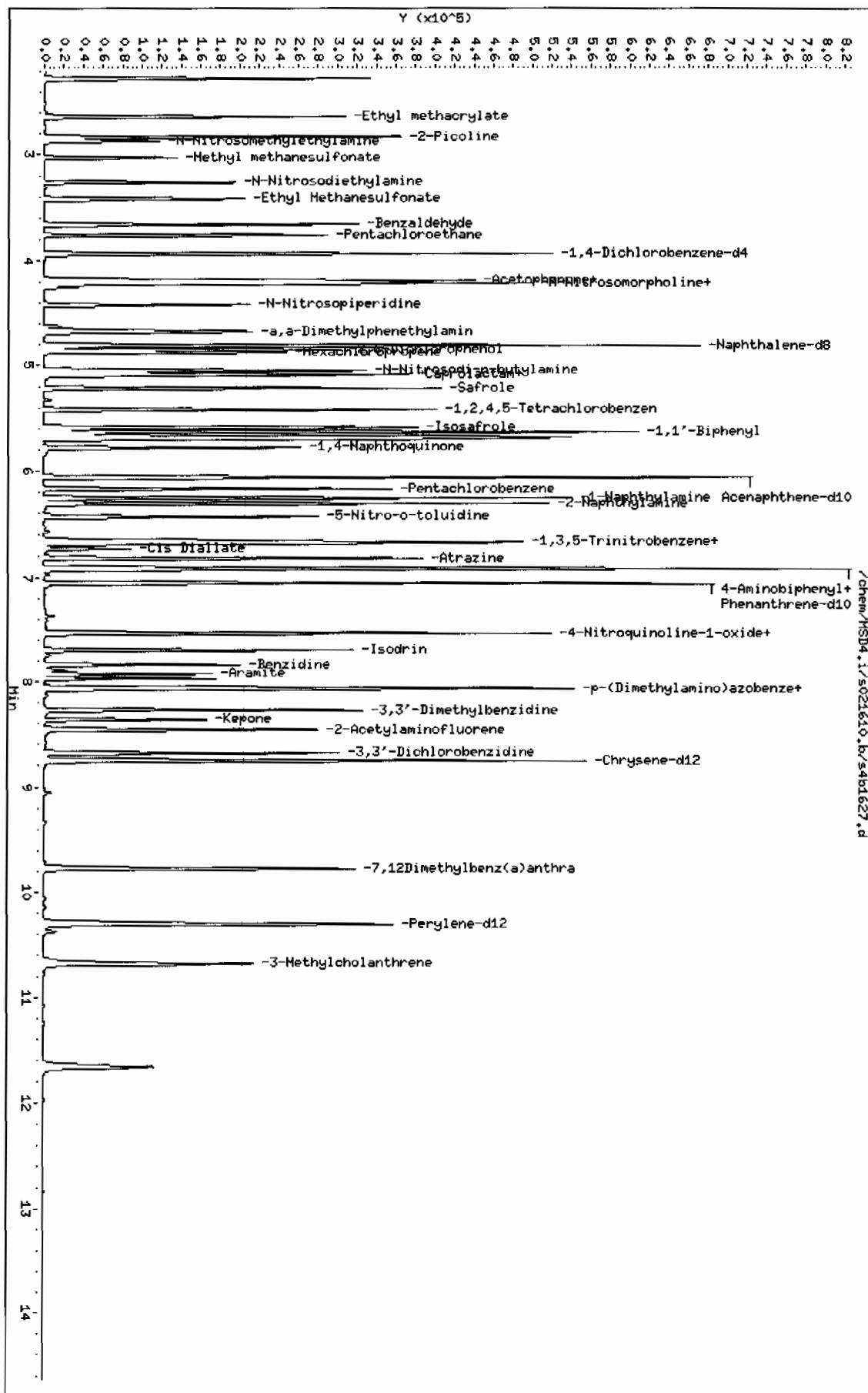
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/MSD4.1/s021610.b/s4b1627.d
 Date: 16-FEB-2010 18:17
 Client ID: APICV
 Sample Info: IABN00120-08.1 ICV111SVF111APICV

Column phase: J&W DB-5MS

Instrument: MSD4.1
 Operator: JHB3
 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

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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
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
IM 222 Trichlorophenols	0.27408	0.31198	0.31198	0.000	13.82468	60.00000	Averaged
IM 223 Tetrachlorophenols	0.21610	0.22761	0.22761	0.000	5.32889	60.00000	Averaged
IM 224 Benzo(b,k)fluoranthene	0.94920	0.93701	0.93701	0.000	-1.28446	60.00000	Averaged

Data File: /chem/MSD4.i/s021710.b/s4b1713.d
 Report Date: 18-Feb-2010 12:29

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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				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng/ul)	ON-COL (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-Terpineol	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.o

Date : 17-FEB-2010 21:48

Client ID: MEGAI0V

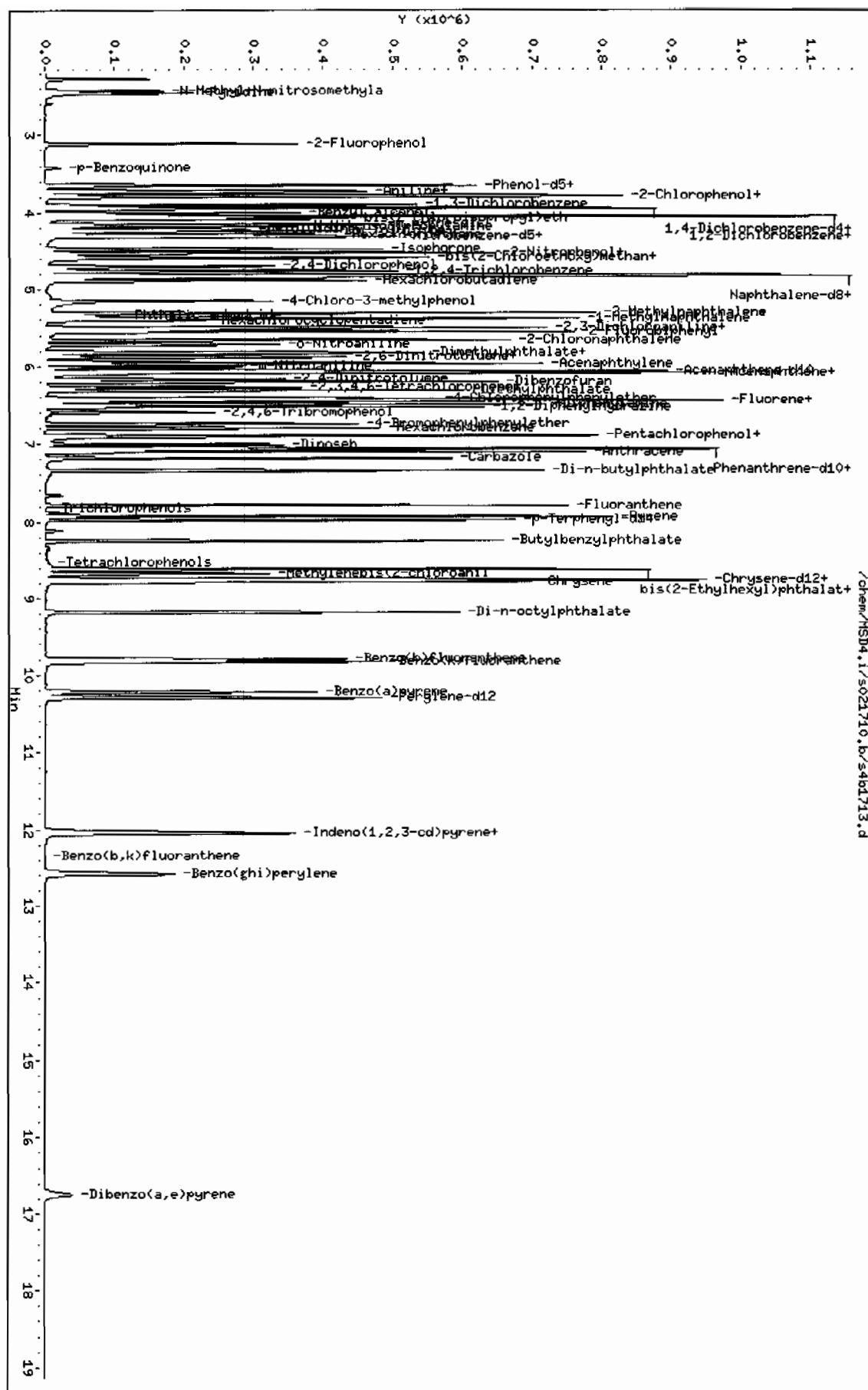
Sample Info: IUBH100215-09.11ICV11SVMF11MEGACICV

Column phase: 3 μ m DB-5MS

Instrument: MSD4.1

Operator: JMB3

Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD6.i Injection Date: 10-NOV-2009 20:29
Lab File ID: s6k0937.d Init. Cal. Date(s): 09-NOV-2009 11-NOV-2009
Analysis Type: Init. Cal. Times: 18:53 04:38
Lab Sample ID: WBN091106-09.1 Quant Type: ISTD
Method: /chem/MSD6.i/s110909.b/MSD6-M8270C-AQA-110909.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
\$ 3 2-Fluorophenol	1.00169	1.03466	1.03466 0.000	3.29147	60.00000	Averaged	
\$ 5 Phenol-d5	1.26427	1.24245	1.24245 0.000	-1.72556	60.00000	Averaged	
\$ 20 Nitrobenzene-d5	0.28296	0.29902	0.29902 0.000	5.67523	60.00000	Averaged	
\$ 39 2-Fluorobiphenyl	1.03083	1.08174	1.08174 0.000	4.93820	60.00000	Averaged	
\$ 60 2,4,6-Tribromophenol	0.11675	0.12945	0.12945 0.000	10.88297	60.00000	Averaged	
\$ 81 p-Terphenyl-d14	0.64507	0.72359	0.72359 0.000	12.17316	60.00000	Averaged	
1 N-Methyl-N-nitrosomethylami	0.68098	0.64081	0.64081 0.000	-5.89855	60.00000	Averaged	
2 Pyridine	0.84757	0.77144	0.77144 0.000	-8.98267	60.00000	Averaged	
4 Aniline	0.52752	0.51930	0.51930 0.000	-1.55765	60.00000	Averaged	
6 Phenol	1.27120	1.23489	1.23489 0.001	-2.85632	20.00000	Averaged ccc	
7 bis(2-Chloroethyl) ether	0.86081	0.80936	0.80936 0.000	-5.97614	60.00000	Averaged	
8 2-Chlorophenol	1.02109	1.01772	1.01772 0.000	-0.32996	60.00000	Averaged	
203 n-Decane	1.42254	1.44155	1.44155 0.000	1.33631	60.00000	Averaged	
9 1,3-Dichlorobenzene	1.17550	1.19665	1.19665 0.000	1.79939	60.00000	Averaged	
11 1,4-Dichlorobenzene	1.19162	1.18877	1.18877 0.001	-0.23932	20.00000	Averaged ccc	
13 1,2-Dichlorobenzene	1.11231	1.12583	1.12583 0.000	1.21558	60.00000	Averaged	
14 bis(2-Chloroisopropyl)ether	1.92182	1.94108	1.94108 0.000	1.00230	60.00000	Averaged	
12 Benzyl alcohol	0.63436	0.65075	0.65075 0.000	2.58272	60.00000	Averaged	
15 o-Cresol	0.83139	0.83798	0.83798 0.000	0.79318	60.00000	Averaged	
18 m,p-Cresols	1.05346	1.05662	1.05662 0.000	0.29972	60.00000	Averaged	
17 N-Nitrosodipropylamine	0.70865	0.69204	0.69204 0.050	-2.34415	60.00000	Averaged spcc	
19 Hexachloroethane	0.46100	0.44650	0.44650 0.000	-3.14409	60.00000	Averaged	
21 Nitrobenzene	0.28519	0.29957	0.29957 0.000	5.04113	60.00000	Averaged	
22 Isophorone	0.50552	0.52435	0.52435 0.000	3.72478	60.00000	Averaged	
23 2-Nitrophenol	0.13154	0.13639	0.13639 0.001	3.68222	20.00000	Averaged ccc	
24 2,4-Dimethylphenol	0.21795	0.23088	0.23088 0.000	5.93159	60.00000	Averaged	
25 bis(2-Chloroethoxy)methane	0.29749	0.30276	0.30276 0.000	1.77222	60.00000	Averaged	
26 2,4-Dichlorophenol	0.19769	0.20590	0.20590 0.001	4.15386	20.00000	Averaged ccc	
27 Benzoic acid	0.13453	0.14567	0.14567 0.000	8.28081	60.00000	Averaged	
28 1,2,4-Trichlorobenzene	0.24261	0.24953	0.24953 0.000	2.85087	60.00000	Averaged	
30 Naphthalene	0.79792	0.83170	0.83170 0.000	4.23406	60.00000	Averaged	
204 alpha-Terpineol	0.21868	0.21801	0.21801 0.000	-0.30655	60.00000	Averaged	
31 4-Chloroaniline	0.25646	0.26546	0.26546 0.000	3.51176	60.00000	Averaged	
32 Hexachlorobutadiene	0.12634	0.13489	0.13489 0.001	6.77038	20.00000	Averaged ccc	
33 4-Chloro-3-methylphenol	0.19957	0.20148	0.20148 0.001	0.96147	20.00000	Averaged ccc	
34 2-Methylnaphthalene	0.48150	0.55976	0.55976 0.000	16.25394	60.00000	Averaged	

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD6.i Injection Date: 10-NOV-2009 20:29
Lab File ID: s6k0937.d Init. Cal. Date(s): 09-NOV-2009 11-NOV-2009
Analysis Type: Init. Cal. Times: 18:53 04:38
Lab Sample ID: WBN091106-09.1 Quant Type: ISTD
Method: /chem/MSD6.i/s110909.b/MSD6-M8270C-AQA-110909.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIPT	MAX %D / %DRIPT	CURVE TYPE
35 1-Methylnaphthalene	0.47100	0.53047	0.53047	0.000	12.62514	60.00000	Averaged
36 Hexachlorocyclopentadiene	0.16157	0.12441	0.12441	0.050	-22.99690	60.00000	Averaged spcc
205 2,3-Dichloroaniline	0.47908	0.48878	0.48878	0.000	2.02564	60.00000	Averaged
37 2,4,6-Trichlorophenol	0.27294	0.27425	0.27425	0.001	0.48093	20.00000	Averaged ccc
38 2,4,5-Trichlorophenol	0.29067	0.30912	0.30912	0.000	6.34737	60.00000	Averaged
40 2-Chloronaphthalene	0.89832	0.89821	0.89821	0.000	-0.01212	60.00000	Averaged
42 o-Nitroaniline	0.30732	0.29883	0.29883	0.000	-2.76487	60.00000	Averaged
41 m-Nitroaniline	0.22497	0.22544	0.22544	0.000	0.20968	60.00000	Averaged
43 Dimethylphthalate	1.02610	1.07233	1.07233	0.000	4.50566	60.00000	Averaged
44 2,6-Dinitrotoluene	0.24475	0.24571	0.24571	0.000	0.39287	60.00000	Averaged
50 2,4-Dinitrotoluene	0.30862	0.32387	0.32387	0.000	4.94261	60.00000	Averaged
45 Acenaphthylene	1.44438	1.60997	1.60997	0.000	11.46448	60.00000	Averaged
47 Acenaphthene	0.90151	0.96315	0.96315	0.001	6.83729	20.00000	Averaged ccc
48 2,4-Dinitrophenol	35.88405	40.00000	0.06990	0.050	-10.28987	60.00000	Linear spcc
49 Dibenzofuran	1.21689	1.24464	1.24464	0.000	2.28092	60.00000	Averaged
51 Diethylphthalate	1.03335	1.08103	1.08103	0.000	4.61479	60.00000	Averaged
52 4-Nitrophenol	37.16907	40.00000	0.15052	0.050	-7.07733	60.00000	Linear spcc
53 Fluorene	0.99879	1.09503	1.09503	0.000	9.63571	60.00000	Averaged
54 4-Chlorophenylphenylether	0.47192	0.49481	0.49481	0.000	4.84948	60.00000	Averaged
55 2-Methyl-4,6-dinitrophenol	44.79678	40.00000	0.10162	0.000	11.99194	60.00000	Linear
56 p-Nitroaniline	37.18126	40.00000	0.19210	0.000	-7.04684	60.00000	Linear
133 Diphenylamine	0.48213	0.48382	0.48382	0.001	0.34977	20.00000	Averaged ccc
58 1,2-Diphenylhydrazine	0.61327	0.61966	0.61966	0.000	1.04277	60.00000	Averaged
61 4-Bromophenylphenylether	0.15784	0.15705	0.15705	0.000	-0.50023	60.00000	Averaged
63 Hexachlorobenzene	0.16533	0.16268	0.16268	0.000	-1.60406	60.00000	Averaged
65 Pentachlorophenol	41.23337	40.00000	0.08933	0.001	3.08343	20.00000	Linear ccc
206 n-Octadecane	0.44173	0.45929	0.45929	0.000	3.97491	60.00000	Averaged
68 Phenanthrene	0.82721	0.88585	0.88585	0.000	7.08867	60.00000	Averaged
69 Anthracene	0.82682	0.90991	0.90991	0.000	10.04830	60.00000	Averaged
72 Di-n-butylphthalate	0.94954	1.02135	1.02135	0.000	7.56331	60.00000	Averaged
76 Fluoranthene	0.79242	0.90654	0.90654	0.001	14.40110	20.00000	Averaged ccc
79 Pyrene	1.10021	1.20816	1.20816	0.000	9.81213	60.00000	Averaged
85 Butylbenzylphthalate	0.50351	0.54090	0.54090	0.000	7.42706	60.00000	Averaged
89 Benzo(a)anthracene	0.86301	0.92157	0.92157	0.000	6.78546	60.00000	Averaged
92 Chrysene	0.82690	0.90169	0.90169	0.000	9.04505	60.00000	Averaged
93 bis(2-Ethylhexyl)phthalate	41.60196	40.00000	0.72185	0.000	4.00491	60.00000	Wt Linear

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD6.i Injection Date: 10-NOV-2009 20:29
Lab File ID: s6k0937.d Init. Cal. Date(s): 09-NOV-2009 11-NOV-2009
Analysis Type: Init. Cal. Times: 18:53 04:38
Lab Sample ID: WBN091106-09.1 Quant Type: ISTD
Method: /chem/MSD6.i/s110909.b/MSD6-M8270C-AQA-110909.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	MAX %D / %DRIFT	CURVE TYPE
94 Di-n-octylphthalate	1.27127	1.35676	1.35676	0.001	6.72426	Averaged
95 Benzo(b)fluoranthene	0.88507	0.99154	0.99154	0.000	12.02912	Averaged
96 Benzo(k)fluoranthene	0.88011	1.01364	1.01364	0.000	15.17242	Averaged
97 Benzo(a)pyrene	0.76447	0.88080	0.88080	0.001	15.21790	Averaged
99 Indeno(1,2,3-cd)pyrene	40.05227	40.00000	0.72891	0.000	0.13069	Linear
100 Dibenzo(a,h)anthracene	37.95723	40.00000	0.56106	0.000	-5.10692	Linear
101 Benzo(ghi)perylene	0.58403	0.61594	0.61594	0.000	5.46367	Averaged
126 m-Dinitrobenzene	0.16929	0.17081	0.17081	0.000	0.89311	Averaged
130 2,3,4,6-Tetrachlorophenol	0.21896	0.23318	0.23318	0.000	6.49309	Averaged
143 Dinoseb	37.88463	40.00000	0.11675	0.000	-5.28842	Linear
173 Carbazole	0.65449	0.70032	0.70032	0.000	7.00193	Averaged
184 p-Benzoquinone	0.12730	0.14364	0.14364	0.000	12.83157	Averaged
192 Methoxychlor	0.55243	0.57593	0.57593	0.000	4.25434	Averaged
211 p-Toluidine	0.89987	0.90823	0.90823	0.000	0.92871	Averaged
210 m-Toluidine	1.12396	1.11262	1.11262	0.000	-1.00903	Averaged
26 Phthalic anhydride	71.32284	40.00000	0.14710	0.000	78.30709	Linear
179 Dibenzo(a,e)pyrene	23.04060	40.00000	0.15052	0.000	-42.39851	Linear
214 1,4-Dinitrobenzene	0.18382	0.17485	0.17485	0.000	-4.87689	Averaged
215 2-Ethoxyethanol	0.71035	0.75383	0.75383	0.000	6.12038	Averaged
216 Methylenebis(2-chloroanilin	38.25405	40.00000	0.11920	0.000	-4.36487	Linear
IM 225 Trichlorophenols	0.28180	0.29168	0.29168	0.000	3.50642	Averaged
IM 226 Tetrachlorophenols	0.21896	0.23318	0.23318	0.000	6.49309	Averaged
IM 227 Benzo(b,k)fluoranthene	0.88259	1.00259	1.00259	0.000	13.59635	Averaged

Data File: /chem/MSD6.i/s110909.b/s6k0937.d
Report Date: 11-Nov-2009 10:50

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GEL Laboratories LLC

Data file : /chem/MSD6.i/s110909.b/s6k0937.d
Lab Smp Id: WBN091106-09.1 Client Smp ID: MEGAICV
Inj Date : 10-NOV-2009 20:29
Operator : JMB3 Inst ID: MSD6.i
Smp Info : |WBN091106-09.1|40 PPM|1|SVMF|1|MEGAICV
Misc Info : |MSD8270|WBN091106-10
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD6.i/s110909.b/MSD6-M8270C-AQA-110909.m
Meth Date : 11-Nov-2009 10:50 nat00999 Quant Type: ISTD
Cal Date : 11-NOV-2009 02:44 Cal File: s6k0950.d
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: MEGA.sub
Target Version: 3.50
Processing Host: hpc1p1

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng/ul)	(ng/ul)
=====	=====	==	=====	=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	152	4.834	4.834	(1.000)	267857	40.0000	
* 29 Naphthalene-d8	136	6.116	6.116	(1.000)	1007489	40.0000	
* 46 Acenaphthene-d10	164	7.986	7.986	(1.000)	511035	40.0000	
* 67 Phenanthrene-d10	188	9.599	9.599	(1.000)	891521	40.0000	
* 91 Chrysene-d12	240	12.618	12.618	(1.000)	688764	40.0000	
* 98 Perylene-d12	264	14.955	14.955	(1.000)	524055	40.0000	
\$ 3 2-Fluorophenol	112	3.646	3.646	(0.754)	277141	40.0000	41.3
\$ 5 Phenol-d5	99	4.431	4.431	(0.917)	332800	40.0000	39.3
\$ 20 Nitrobenzene-d5	82	5.371	5.371	(0.878)	301256	40.0000	42.3
\$ 39 2-Fluorobiphenyl	172	7.242	7.242	(0.907)	552805	40.0000	42.0
\$ 60 2,4,6-Tribromophenol	329	8.834	8.834	(1.106)	66156	40.0000	44.4
\$ 81 p-Terphenyl-d14	244	11.306	11.306	(0.896)	498384	40.0000	44.9
1 N-Methyl-N-nitrosomethylamine	74	2.663	2.663	(0.551)	171645	40.0000	37.6
2 Pyridine	79	2.701	2.701	(0.559)	206635	40.0000	36.4
4 Aniline	66	4.518	4.518	(0.935)	139099	40.0000	39.4
6 Phenol	94	4.444	4.444	(0.919)	330773	40.0000	38.8
7 bis(2-Chloroethyl) ether	63	4.559	4.559	(0.943)	216794	40.0000	37.6
8 2-Chlorophenol	128	4.633	4.633	(0.958)	272604	40.0000	39.9
203 n-Decane	43	4.643	4.643	(0.960)	386128	40.0000	40.5
9 1,3-Dichlorobenzene	146	4.783	4.783	(0.989)	320531	40.0000	40.7
11 1,4-Dichlorobenzene	146	4.852	4.852	(1.004)	318420	40.0000	39.9
13 1,2-Dichlorobenzene	146	5.002	5.002	(1.035)	301561	40.0000	40.5
14 bis(2-Chloroisopropyl) ether	45	5.068	5.068	(1.048)	519933	40.0000	40.4
12 Benzyl alcohol	108	4.941	4.941	(1.022)	174307	40.0000	41.0
15 o-Cresol	107	5.025	5.025	(1.040)	224459	40.0000	40.3
18 m,p-Cresols	107	5.180	5.180	(1.072)	283022	40.0000	40.1

Compounds	QUANT SIG			RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS							CAL-AMT (ng/ul)	ON-COL (ng/ul)
17 N-Nitrosodipropylamine	70			5.206	5.206	(1.077)	185368	40.0000	39.1
19 Hexachloroethane	117			5.338	5.338	(1.104)	119599	40.0000	38.7
21 Nitrobenzene	77			5.392	5.392	(0.882)	301811	40.0000	42.0
22 Isophorone	82			5.626	5.626	(0.920)	528272	40.0000	41.5
23 2-Nitrophenol	139			5.708	5.708	(0.933)	137410	40.0000	41.5
24 2,4-Dimethylphenol	122			5.718	5.718	(0.935)	232609	40.0000	42.4
25 bis(2-Chloroethoxy)methane	93			5.825	5.825	(0.952)	305032	40.0000	40.7
26 2,4-Dichlorophenol	162			5.950	5.950	(0.973)	207439	40.0000	41.7
27 Benzoic acid	105			5.812	5.812	(0.950)	146760	40.0000	43.3(H)
28 1,2,4-Trichlorobenzene	180			6.047	6.047	(0.989)	251400	40.0000	41.1
30 Naphthalene	128			6.138	6.138	(1.004)	837929	40.0000	41.7
204 alpha-Terpineol	59			6.123	6.123	(1.001)	219641	40.0000	39.9
31 4-Chloroaniline	127			6.172	6.172	(1.009)	267452	40.0000	41.4
32 Hexachlorobutadiene	225			6.251	6.251	(1.022)	135904	40.0000	42.7
33 4-Chloro-3-methylphenol	107			6.653	6.653	(1.088)	202993	40.0000	40.4
34 2-Methylnaphthalene	142			6.862	6.862	(1.122)	563953	40.0000	46.5
35 1-Methylnaphthalene	142			6.969	6.969	(1.140)	534441	40.0000	45.0
36 Hexachlorocyclopentadiene	237			7.020	7.020	(0.879)	63579	40.0000	30.8
205 2,3-Dichloroaniline	161			7.155	7.155	(0.896)	249785	40.0000	40.8
37 2,4,6-Trichlorophenol	196			7.147	7.147	(0.895)	140152	40.0000	40.2
38 2,4,5-Trichlorophenol	196			7.183	7.183	(0.899)	157970	40.0000	42.5
40 2-Chloronaphthalene	162			7.384	7.384	(0.925)	459019	40.0000	40.0
42 o-Nitroaniline	65			7.479	7.479	(0.936)	152711	40.0000	38.9
41 m-Nitroaniline	138			7.922	7.922	(0.992)	115209	40.0000	40.1
43 Dimethylphthalate	163			7.670	7.670	(0.960)	548000	40.0000	41.8
44 2,6-Dinitrotoluene	165			7.739	7.739	(0.969)	125566	40.0000	40.2
50 2,4-Dinitrotoluene	165			8.172	8.172	(1.023)	165511	40.0000	42.0
45 Acenaphthylene	152			7.835	7.835	(0.981)	822752	40.0000	44.6
47 Acenaphthene	154			8.024	8.024	(1.005)	492203	40.0000	42.7
48 2,4-Dinitrophenol	184			8.029	8.029	(1.005)	35722	40.0000	35.9
49 Dibenzofuran	168			8.205	8.205	(1.027)	636057	40.0000	40.9
51 Diethylphthalate	149			8.424	8.424	(1.055)	552446	40.0000	41.8
52 4-Nitrophenol	139			8.070	8.070	(1.011)	76920	40.0000	37.2
53 Fluorene	166			8.577	8.577	(1.074)	559601	40.0000	43.8
54 4-Chlorophenylphenylether	204			8.564	8.564	(1.072)	252864	40.0000	41.9
55 2-Methyl-4,6-dinitrophenol	198			8.613	8.613	(0.897)	90597	40.0000	44.8
56 p-Nitroaniline	138			8.582	8.582	(1.075)	98168	40.0000	37.2
133 Diphenylamine	169			8.689	8.689	(0.905)	431336	40.0000	40.1
58 1,2-Diphenylhydrazine	77			8.738	8.738	(0.910)	552443	40.0000	40.4
61 4-Bromophenylphenylether	248			9.094	9.094	(0.947)	140012	40.0000	39.8
63 Hexachlorobenzene	284			9.173	9.173	(0.956)	145031	40.0000	39.4
65 Pentachlorophenol	266			9.375	9.375	(0.977)	79644	40.0000	41.2
206 n-Octadecane	57			9.431	9.431	(0.982)	409467	40.0000	41.6
68 Phenanthrene	178			9.624	9.624	(1.003)	789756	40.0000	42.8
69 Anthracene	178			9.680	9.680	(1.008)	811200	40.0000	44.0
72 Di-n-butylphthalate	149			10.190	10.190	(1.062)	910557	40.0000	43.0
76 Fluoranthene	202			10.914	10.914	(1.137)	808196	40.0000	45.8

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
79 Pyrene	202	11.166	11.166	(0.885)	832137	40.0000	43.9
85 Butylbenzylphthalate	149	11.841	11.841	(0.938)	372553	40.0000	43.0
89 Benzo(a)anthracene	228	12.598	12.598	(0.998)	634741	40.0000	42.7
92 Chrysene	228	12.654	12.654	(1.003)	621053	40.0000	43.6
93 bis(2-Ethylhexyl)phthalate	149	12.570	12.570	(0.996)	497186	40.0000	41.6
94 Di-n-octylphthalate	149	13.561	13.561	(0.907)	711015	40.0000	42.7
95 Benzo(b)fluoranthene	252	14.275	14.275	(0.954)	519622	40.0000	44.8
96 Benzo(k)fluoranthene	252	14.326	14.326	(0.958)	531203	40.0000	46.1
97 Benzo(a)pyrene	252	14.853	14.853	(0.993)	461589	40.0000	46.1
99 Indeno(1,2,3-cd)pyrene	276	16.945	16.945	(1.133)	381990	40.0000	40.0
100 Dibenzo(a,h)anthracene	278	16.978	16.978	(1.135)	294025	40.0000	38.0
101 Benzo(ghi)perylene	276	17.460	17.460	(1.167)	322785	40.0000	42.2
126 m-Dinitrobenzene	168	7.708	7.708	(0.965)	87288	40.0000	40.4
130 2,3,4,6-Tetrachlorophenol	232	8.325	8.325	(1.042)	119161	40.0000	42.6
143 Dinoseb	211	9.561	9.561	(0.996)	104085	40.0000	37.9
173 Carbazole	167	9.841	9.841	(1.025)	624352	40.0000	42.8
184 p-Benzoquinone	54	4.085	4.085	(0.845)	38475	40.0000	45.1
192 Methoxychlor	227	12.468	12.468	(0.988)	396683	40.0000	41.7
211 p-Toluidine	106	5.252	5.252	(1.086)	243276	40.0000	40.4
210 m-Toluidine	106	5.285	5.285	(1.093)	298023	40.0000	39.6
26 Phthalic anhydride	104	6.911	6.911	(1.130)	148201	40.0000	71.3
179 Dibenzo(a,e)pyrene	302	21.182	21.182	(1.416)	78881	40.0000	23.0
214 1,4-Dinitrobenzene	75	7.624	7.624	(0.955)	89355	40.0000	38.0
215 2-Ethoxyethanol	59	2.454	2.454	(0.508)	201919	40.0000	42.4
216 Methylenebis(2-chloroaniline)	231	12.539	12.539	(0.994)	82098	40.0000	38.2
M 225 Trichlorophenols	196				298122	80.0000	82.8
M 226 Tetrachlorophenols	232				119161	40.0000	42.6
M 227 Benzo(b,k)fluoranthene	252				1050825	80.0000	90.9

QC Flag Legend

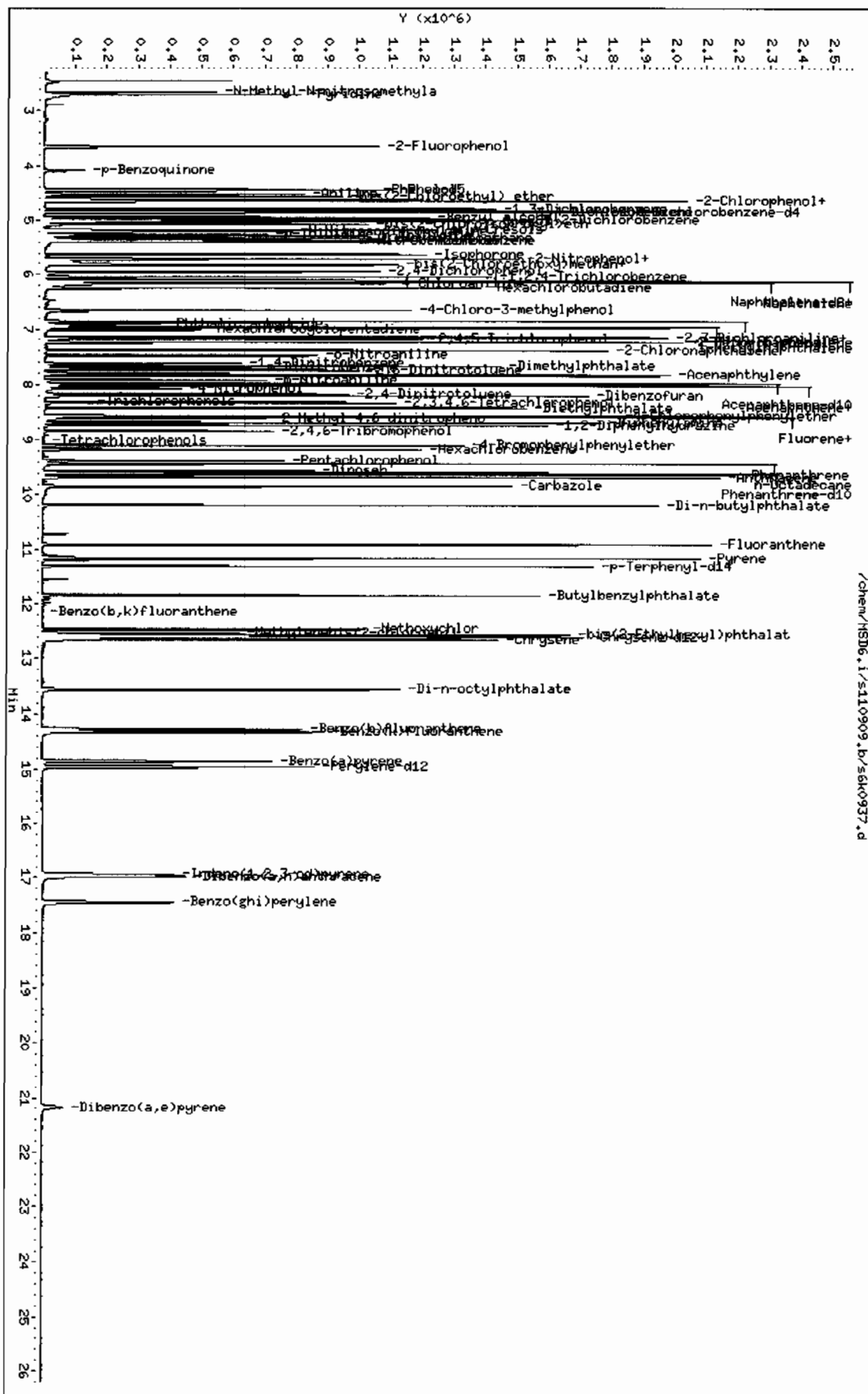
H - Operator selected an alternate compound hit.

Data File: /chem/MSD6.i/s110909.b/sk0937.d
 Date: 10-NOV-2009 20:29
 Client ID: MEGACV
 Sample Info: IABH091106-09.1140 PPH11.SVHF11.MEGACV

Column phase: J&W DB-5MS

/chem/MSD6.i/s110909.b/sk0937.d

Instrument: MSD6.i
 Operator: JHB3
 Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD6.i Injection Date: 10-NOV-2009 21:07
Lab File ID: s6k0938.d Init. Cal. Date(s): 09-NOV-2009 11-NOV-2009
Analysis Type: Init. Cal. Times: 18:53 04:38
Lab Sample ID: WBN091016-08.1 Quant Type: ISTD
Method: /chem/MSD6.i/s110909.b/MSD6-M8270C-AQA-110909.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
209 Benzaldehyde	0.86127	0.67526	0.67526	0.000	-21.59733	60.00000	Averaged
16 Acetophenone	1.16908	1.08481	1.08481	0.000	-7.20809	60.00000	Averaged
189 Caprolactam	0.07388	0.08118	0.08118	0.000	9.87786	60.00000	Averaged
208 1,1'-Biphenyl	1.20131	1.15865	1.15865	0.000	-3.55099	60.00000	Averaged
207 Atrazine	0.04063	0.03738	0.03738	0.000	-8.01727	60.00000	Averaged
77 Benzidine	0.39304	0.35886	0.35886	0.000	-8.69608	60.00000	Averaged
90 3,3'-Dichlorobenzidine	0.28252	0.30132	0.30132	0.000	6.65684	60.00000	Averaged
102 1,4-Dioxane	0.36606	0.45837	0.45837	0.000	25.21672	60.00000	Averaged
103 Methyl methacrylate	0.19388	0.26059	0.26059	0.000	34.40927	60.00000	Averaged
104 Ethyl methacrylate	0.80561	0.97594	0.97594	0.000	21.14390	60.00000	Averaged
105 2-Picoline	1.30872	1.36092	1.36092	0.000	3.98846	60.00000	Averaged
106 N-Nitrosomethylethylamine	0.51104	0.53755	0.53755	0.000	5.18772	60.00000	Averaged
107 Methyl methanesulfonate	0.52852	0.52223	0.52223	0.000	-1.19058	60.00000	Averaged
108 N-Nitrosodiethylamine	0.49553	0.51026	0.51026	0.000	2.97098	60.00000	Averaged
109 Ethyl Methanesulfonate	0.65169	0.73760	0.73760	0.000	13.18337	60.00000	Averaged
110 Pentachloroethane	0.31681	0.42390	0.42390	0.000	33.80401	60.00000	Averaged
111 N-Nitrosopyrrolidine	0.47614	0.46325	0.46325	0.000	-2.70540	60.00000	Averaged
113 N-Nitrosomorpholine	0.67936	0.65676	0.65676	0.000	-3.32751	60.00000	Averaged
114 o-Toluidine	1.65281	1.64899	1.64899	0.000	-0.23102	60.00000	Averaged
115 N-Nitrosopiperidine	0.14105	0.14180	0.14180	0.000	0.52679	60.00000	Averaged
116 a,a-Dimethylphenethylamine	0.85546	0.87204	0.87204	0.000	1.93819	60.00000	Averaged
118 2,6-Dichlorophenol	0.20687	0.20008	0.20008	0.000	-3.28259	60.00000	Averaged
119 Hexachloropropene	0.10269	0.14537	0.14537	0.000	41.57055	60.00000	Averaged
120 p-Phenylenediamine	0.22955	0.23182	0.23182	0.000	0.99155	60.00000	Averaged
121 N-Nitrosodi-n-butylamine	0.21004	0.21749	0.21749	0.000	3.54470	60.00000	Averaged
122 Saffrole	0.18653	0.20933	0.20933	0.000	12.22661	60.00000	Averaged
123 1,2,4,5-Tetrachlorobenzene	0.42319	0.42512	0.42512	0.000	0.45545	60.00000	Averaged
124 Isosafrole	0.33959	0.43257	0.43257	0.000	27.38086	60.00000	Averaged
125 1,4-Napthoquinone	0.30674	0.30375	0.30375	0.000	-0.97466	60.00000	Averaged
127 Pentachlorobenzene	0.36454	0.36394	0.36394	0.000	-0.16566	60.00000	Averaged
128 1-Naphthylamine	0.90742	0.91190	0.91190	0.000	0.49410	60.00000	Averaged
129 2-Naphthylamine	0.98012	0.91865	0.91865	0.000	-6.27177	60.00000	Averaged
131 5-Nitro-o-toluidine	0.27901	0.28996	0.28996	0.000	3.92480	60.00000	Averaged
136 1,3,5-Trinitrobenzene	46.05690	40.00000	0.13757	0.000	15.14226	60.00000	Linear
137 Phenacetin	0.26240	0.25991	0.25991	0.000	-0.94903	60.00000	Averaged
138 Diallate	0.24056	0.23148	0.23148	0.000	-3.77545	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD6.i Injection Date: 10-NOV-2009 21:07
Lab File ID: s6k0938.d Init. Cal. Date(s): 09-NOV-2009 11-NOV-2009
Analysis Type: Init. Cal. Times: 18:53 04:38
Lab Sample ID: WBN091016-08.1 Quant Type: ISTD
Method: /chem/MSD6.i/s110909.b/MSD6-M8270C-AQA-110909.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIPT	MAX %D / %DRIPT	CURVE TYPE
140 4-Aminobiphenyl	0.53562	0.58994	0.58994	0.000	10.14239	60.00000	Averaged
141 Pentachloronitrobenzene	0.06192	0.06213	0.06213	0.000	0.34079	60.00000	Averaged
142 Pronamide	0.26319	0.26234	0.26234	0.000	-0.32101	60.00000	Averaged
146 4-Nitroquinoline-1-oxide	0.02349	0.02580	0.02580	0.000	9.82299	60.00000	Averaged
147 Methapyrilene	0.38600	0.39422	0.39422	0.000	2.12820	60.00000	Averaged
148 Isodrin	0.09631	0.08838	0.08838	0.000	-8.22821	60.00000	Averaged
149 Aramite	0.04420	0.04155	0.04155	0.000	-5.99495	60.00000	Averaged
150 Kepone	0.06173	0.05889	0.05889	0.000	-4.59530	60.00000	Averaged
151 p-(Dimethylamino)azobenzene	0.31734	0.33079	0.33079	0.000	4.23929	60.00000	Averaged
152 Chlorobenzilate	0.29130	0.29321	0.29321	0.000	0.65640	60.00000	Averaged
153 3,3'-Dimethylbenzidine	0.52763	0.57778	0.57778	0.000	9.50435	60.00000	Averaged
155 2-Acetylaminofluorene	41.44131	40.00000	0.34022	0.000	3.60328	60.00000	Linear
157 7,12Dimethylbenz(a)anthracene	0.47906	0.41447	0.41447	0.000	-13.48259	60.00000	Averaged
158 3-Methylcholanthrene	0.36955	0.35869	0.35869	0.000	-2.93887	60.00000	Averaged
212 Cis Diallate	0.25295	0.25705	0.25705	0.000	1.62146	60.00000	Averaged
213 Trans Diallate	0.28301	0.27233	0.27233	0.000	-3.77545	60.00000	Averaged

Data File: /chem/MSD6.i/s110909.b/s6k0938.d
Report Date: 11-Nov-2009 09:25

Page 1

GEL Laboratories LLC

Data file : /chem/MSD6.i/s110909.b/s6k0938.d
Lab Smp Id: WBN091016-08.1 Client Smp ID: AP12ICV
Inj Date : 10-NOV-2009 21:07
Operator : JMB3 Inst ID: MSD6.i
Smp Info : |WBN091016-08.1|40 PPM|1|SVMF|1|AP12ICV
Misc Info : |MSD8270|WBN091106-10
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD6.i/s110909.b/MSD6-M8270C-AQA-110909.m
Meth Date : 11-Nov-2009 09:25 nat00999 Quant Type: ISTD
Cal Date : 11-NOV-2009 02:44 Cal File: s6k0950.d
Als bottle: 18 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AP12.sub
Target Version: 3.50
Processing Host: hpclpl1

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	4.834	4.834 (1.000)	282437	40.0000	
* 29 Naphthalene-d8	136	6.113	6.113 (1.000)	974498	40.0000	
* 46 Acenaphthene-d10	164	7.983	7.983 (1.000)	519475	40.0000	
* 67 Phenanthrene-d10	188	9.599	9.599 (1.000)	914999	40.0000	
* 91 Chrysene-d12	240	12.613	12.613 (1.000)	718441	40.0000	
* 98 Perylene-d12	264	14.950	14.950 (1.000)	524113	40.0000	
209 Benzaldehyde	77	4.428	4.428 (0.916)	190719	40.0000	31.4
16 Acetophenone	105	5.211	5.211 (1.078)	306390	40.0000	37.1
189 Caprolactam	113	6.531	6.531 (1.068)	79108	40.0000	44.0
208 1,1'-Biphenyl	154	7.354	7.354 (0.921)	601890	40.0000	38.6
207 Atrazine	173	9.249	9.249 (0.964)	34200	40.0000	36.8
77 Benzidine	184	11.038	11.038 (0.875)	257818	40.0000	36.5
90 3,3'-Dichlorobenzidine	252	12.539	12.539 (0.994)	216482	40.0000	42.7
102 1,4-Dioxane	88	2.456	2.456 (0.508)	129460	40.0000	50.1
103 Methyl methacrylate	100	2.454	2.454 (0.508)	73600	40.0000	53.8
104 Ethyl methacrylate	69	2.971	2.971 (0.615)	275642	40.0000	48.4
105 2-Picoline	93	3.228	3.228 (0.668)	384374	40.0000	41.6
106 N-Nitrosomethylethylamine	88	3.297	3.297 (0.682)	151823	40.0000	42.1
107 Methyl methanesulfonate	80	3.521	3.521 (0.728)	147497	40.0000	39.5
108 N-Nitrosodiethylamine	102	3.858	3.858 (0.798)	144115	40.0000	41.2
109 Ethyl Methanesulfonate	79	4.097	4.097 (0.848)	208326	40.0000	45.3
110 Pentachloroethane	167	4.574	4.574 (0.946)	119725	40.0000	53.5
111 N-Nitrosopyrrolidine	100	5.190	5.190 (1.074)	130840	40.0000	38.9(Q)
113 N-Nitrosomorpholine	56	5.223	5.223 (1.081)	185493	40.0000	38.7
114 o-Toluidine	106	5.249	5.249 (1.086)	465737	40.0000	39.9
115 N-Nitrosopiperidine	114	5.539	5.539 (0.906)	138180	40.0000	40.2

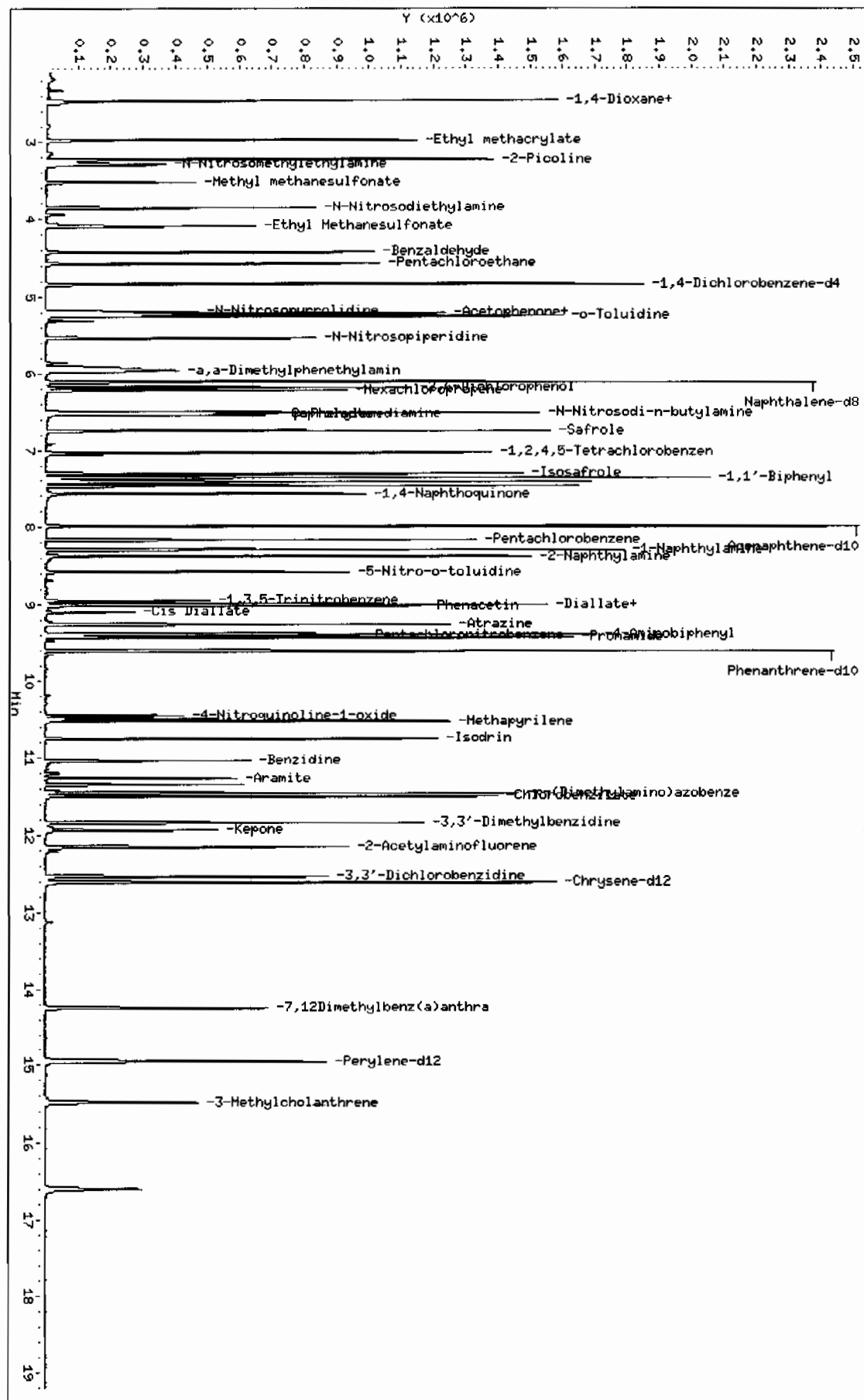
Compounds	QUANT SIG			AMOUNTS		
	MASS	RT	EXP RT REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
116 a,a-Dimethylphenethylamine	58	5.962	5.962 (0.975)	849798	40.0000	40.8
118 2,6-Dichlorophenol	162	6.184	6.184 (1.012)	194979	40.0000	38.7
119 Hexachloropropene	213	6.222	6.222 (1.018)	141665	40.0000	56.6
120 p-Phenylenediamine	108	6.541	6.541 (1.070)	225910	40.0000	40.4
121 N-Nitrosodi-n-butylamine	84	6.515	6.515 (1.066)	211942	40.0000	41.4(T)
122 Safrole	162	6.750	6.750 (1.104)	203993	40.0000	44.9
123 1,2,4,5-Tetrachlorobenzene	216	7.035	7.035 (0.881)	220840	40.0000	40.2
124 Isosafrole	162	7.305	7.305 (0.915)	224711	40.0000	51.0
125 1,4-Naphthoquinone	158	7.565	7.565 (0.948)	157789	40.0000	39.6
127 Pentachlorobenzene	250	8.156	8.156 (1.022)	189057	40.0000	39.9
128 1-Naphthylamine	143	8.284	8.284 (1.038)	473709	40.0000	40.2
129 2-Naphthylamine	143	8.368	8.368 (1.048)	477216	40.0000	37.5
131 5-Nitro-o-toluidine	152	8.574	8.574 (1.074)	150626	40.0000	41.6
136 1,3,5-Trinitrobenzene	75	8.946	8.946 (0.932)	125876	40.0000	46.0
137 Phenacetin	108	9.010	9.010 (0.939)	237813	40.0000	39.6(Q)
138 Diallate	86	8.990	8.990 (0.937)	211803	40.0000	38.5
140 4-Aminobiphenyl	169	9.374	9.374 (0.977)	539794	40.0000	44.0
141 Pentachloronitrobenzene	237	9.392	9.392 (0.978)	56852	40.0000	40.1(Q)
142 Pronamide	173	9.423	9.423 (0.982)	240044	40.0000	39.9
146 4-Nitroquinoline-1-oxide	101	10.445	10.445 (1.088)	23608	40.0000	43.9
147 Methapyrilene	58	10.518	10.518 (1.096)	360709	40.0000	40.8
148 Isodrin	193	10.750	10.750 (1.120)	80870	40.0000	36.7
149 Aramite	185	11.265	11.265 (1.174)	38019	40.0000	37.6
150 Kepone	272	11.933	11.933 (1.243)	53886	40.0000	38.2
151 p-(Dimethylamino)azobenzene	120	11.456	11.456 (0.908)	237654	40.0000	41.7
152 Chlorobenzilate	251	11.499	11.499 (0.912)	210653	40.0000	40.3
153 3,3'-Dimethylbenzidine	212	11.838	11.838 (0.939)	415103	40.0000	43.8
155 2-Acetylaminofluorene	181	12.154	12.154 (0.964)	244425	40.0000	41.4
157 7,12Dimethylbenz(a)anthracene	256	14.251	14.251 (0.953)	217229	40.0000	34.6
158 3-Methylcholanthrene	268	15.477	15.477 (1.035)	187994	40.0000	38.8(Q)
212 Cis Diallate	86	9.092	9.092 (0.947)	35280	6.00000	6.1
213 Trans Diallate	86	8.990	8.990 (0.937)	211803	34.0000	32.7

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.

Data File: /chem/MSD6.1/s110909.b/s640938.d
 Date: 10-NOV-2009 21:07
 Client ID: AP121CV
 Sample Info: ILMNO91016-08.1140 PPH11SVNF111AP121CV
 Column phase: J&W DB-SMS

Instrument: MSD6.1
 Operator: JMB3
 Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 18-FEB-2010 17:40
Lab File ID: s4b1820.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/s021810a.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	1.17440	1.17440	0.000	3.03641	60.00000	Averaged
5 Phenol-d5	1.43191	1.48098	1.48098	0.000	3.42699	60.00000	Averaged
20 Nitrobenzene-d5	0.30717	0.30431	0.30431	0.000	-0.93009	60.00000	Averaged
39 2-Fluorobiphenyl	1.03281	1.06913	1.06913	0.000	3.51574	60.00000	Averaged
60 2,4,6-Tribromophenol	0.12510	0.14081	0.14081	0.000	12.55954	60.00000	Averaged
81 p-Terphenyl-d14	0.62529	0.70385	0.70385	0.000	12.56479	60.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.82083	0.82084	0.82084	0.000	0.00068	60.00000	Averaged
2 Pyridine	1.14982	1.17424	1.17424	0.000	2.12406	60.00000	Averaged
4 Aniline	0.56446	0.59058	0.59058	0.000	4.62813	60.00000	Averaged
6 Phenol	1.45555	1.53225	1.53225	0.001	5.26918	20.00000	Averaged ccc
7 bis(2-Chloroethyl) ether	0.85752	0.91010	0.91010	0.000	6.13140	60.00000	Averaged
8 2-Chlorophenol	1.19326	1.23154	1.23154	0.000	3.20865	60.00000	Averaged
203 n-Decane	1.14554	1.17798	1.17798	0.000	2.83184	60.00000	Averaged
9 1,3-Dichlorobenzene	1.18927	1.24122	1.24122	0.000	4.36848	60.00000	Averaged
11 1,4-Dichlorobenzene	1.19193	1.27784	1.27784	0.001	7.20715	20.00000	Averaged ccc
13 1,2-Dichlorobenzene	1.08549	1.08271	1.08271	0.000	-0.25676	60.00000	Averaged
14 bis(2-Chloroisopropyl)ether	1.60426	1.72129	1.72129	0.000	7.29486	60.00000	Averaged
12 Benzyl alcohol	0.66113	0.75713	0.75713	0.000	14.52131	60.00000	Averaged
15 o-Cresol	0.87618	0.87698	0.87698	0.000	0.09079	60.00000	Averaged
18 m,p-Cresols	1.19261	1.24402	1.24402	0.000	4.31106	60.00000	Averaged
17 N-Nitrosodipropylamine	0.81552	0.87175	0.87175	0.050	6.89447	60.00000	Averaged spcc
19 Hexachloroethane	0.44754	0.48068	0.48068	0.000	7.40513	60.00000	Averaged
21 Nitrobenzene	0.29707	0.29979	0.29979	0.000	0.91647	60.00000	Averaged
22 Isophorone	0.61948	0.60875	0.60875	0.000	-1.73252	60.00000	Averaged
23 2-Nitrophenol	0.16102	0.15455	0.15455	0.001	-4.01832	20.00000	Averaged ccc
24 2,4-Dimethylphenol	0.26181	0.27123	0.27123	0.000	3.59589	60.00000	Averaged
25 bis(2-Chloroethoxy)methane	0.37080	0.37473	0.37473	0.000	1.06058	60.00000	Averaged
26 2,4-Dichlorophenol	0.22734	0.22678	0.22678	0.001	-0.24605	20.00000	Averaged ccc
27 Benzoic acid	36.30344	40.00000	0.14512	0.000	-9.24140	60.00000	Linear
28 1,2,4-Trichlorobenzene	0.23172	0.23256	0.23256	0.000	0.36526	60.00000	Averaged
30 Naphthalene	0.91608	0.85847	0.85847	0.000	-6.28876	60.00000	Averaged
204 alpha-Terpineol	0.19469	0.19777	0.19777	0.000	1.58136	60.00000	Averaged
31 4-Chloroaniline	0.41124	0.42592	0.42592	0.000	3.57188	60.00000	Averaged
32 Hexachlorobutadiene	0.11515	0.11791	0.11791	0.001	2.40510	20.00000	Averaged ccc
33 4-Chloro-3-methylphenol	0.23051	0.23515	0.23515	0.001	2.01426	20.00000	Averaged ccc
34-2-Methylnaphthalene	0.53694	0.53324	0.53324	0.000	-0.68966	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 18-FEB-2010 17:40
Lab File ID: s4b1820.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/s021810a.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	0.52126	0.52126	0.000	-0.16134	60.00000 Averaged
36 Hexachlorocyclopentadiene	0.18735	0.20069	0.20069	0.050	7.11923	60.00000 Averaged spcc
205 2,3-Dichloroaniline	0.52378	0.54376	0.54376	0.000	3.81449	60.00000 Averaged
37 2,4,6-Trichlorophenol	0.25903	0.29626	0.29626	0.001	14.37575	20.00000 Averaged ccc
38 2,4,5-Trichlorophenol	0.29955	0.31441	0.31441	0.000	4.95944	60.00000 Averaged
40 2-Chloronaphthalene	0.96029	0.96286	0.96286	0.000	0.26781	60.00000 Averaged
42 o-Nitroaniline	0.26586	0.27929	0.27929	0.000	5.05139	60.00000 Averaged
41 m-Nitroaniline	41.72214	40.00000	0.26237	0.000	4.30536	60.00000 Linear
43 Dimethylphthalate	1.05863	1.08722	1.08722	0.000	2.70042	60.00000 Averaged
44 2,6-Dinitrotoluene	0.25249	0.26302	0.26302	0.000	4.17192	60.00000 Averaged
50 2,4-Dinitrotoluene	0.32954	0.33281	0.33281	0.000	0.99197	60.00000 Averaged
45 Acenaphthylene	1.46134	1.50684	1.50684	0.000	3.11383	60.00000 Averaged
47 Acenaphthene	1.01927	0.91855	0.91855	0.001	-9.88142	20.00000 Averaged ccc
48 2,4-Dinitrophenol	0.09585	0.09760	0.09760	0.050	1.82459	60.00000 Averaged spcc
49 Dibenzofuran	1.26028	1.28845	1.28845	0.000	2.23481	60.00000 Averaged
51 Diethylphthalate	0.99645	1.03766	1.03766	0.000	4.13638	60.00000 Averaged
52 4-Nitrophenol	40.34141	40.00000	0.19390	0.050	0.85352	60.00000 Linear spcc
53 Fluorene	1.11013	1.05884	1.05884	0.000	-4.62076	60.00000 Averaged
54 4-Chlorophenylphenylether	0.47469	0.46853	0.46853	0.000	-1.29828	60.00000 Averaged
55 2-Methyl-4,6-dinitrophenol	0.10836	0.11347	0.11347	0.000	4.71198	60.00000 Averaged
56 p-Nitroaniline	0.19331	0.19213	0.19213	0.000	-0.61201	60.00000 Averaged
133 Diphenylamine	0.52934	0.56134	0.56134	0.001	6.04551	20.00000 Averaged ccc
58 1,2-Diphenylhydrazine	0.69021	0.75362	0.75362	0.000	9.18670	60.00000 Averaged
61 4-Bromophenylphenylether	0.17497	0.17850	0.17850	0.000	2.01945	60.00000 Averaged
63 Hexachlorobenzene	0.18879	0.19876	0.19876	0.000	5.27989	60.00000 Averaged
65 Pentachlorophenol	0.09256	0.10476	0.10476	0.001	13.19057	20.00000 Averaged ccc
206 n-Octadecane	0.36714	0.40683	0.40683	0.000	10.81211	60.00000 Averaged
68 Phenanthrene	0.98692	0.94076	0.94076	0.000	-4.67697	60.00000 Averaged
69 Anthracene	1.00244	0.97549	0.97549	0.000	-2.68886	60.00000 Averaged
72 Di-n-butylphthalate	1.08225	1.10238	1.10238	0.000	1.86038	60.00000 Averaged
76 Fluoranthene	0.92422	0.90046	0.90046	0.001	-2.56994	20.00000 Averaged ccc
79 Pyrene	1.09018	1.18345	1.18345	0.000	8.55515	60.00000 Averaged
85 Butylbenzylphthalate	0.46266	0.48967	0.48967	0.000	5.83859	60.00000 Averaged
89 Benzo(a)anthracene	0.93727	0.91751	0.91751	0.000	-2.10885	60.00000 Averaged
92 Chrysene	0.94297	0.95989	0.95989	0.000	1.79380	60.00000 Averaged
93 bis(2-Ethylhexyl)phthalate	0.66314	0.77227	0.77227	0.000	16.45719	60.00000 Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 18-FEB-2010 17:40
Lab File ID: s4b1820.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/s021810a.b/MSD4-M8270C-AQA-021710.m

COMPOUND	RRF / AMOUNT	RF40	CCAL	MIN	MAX	CURVE TYPE
			RRF40	RRF %D / %DRIFT	%D / %DRIFT	
94 Di-n-octylphthalate	1.19630	1.43455	1.43455	0.001	19.91565	Averaged ccc
95 Benzo(b)fluoranthene	0.94362	0.99761	0.99761	0.000	5.72149	Averaged
96 Benzo(k)fluoranthene	0.95478	0.98752	0.98752	0.000	3.42885	Averaged
97 Benzo(a)pyrene	0.80648	0.82994	0.82994	0.001	2.90856	Averaged ccc
99 Indeno(1,2,3-cd)pyrene	0.72396	0.70994	0.70994	0.000	-1.93541	Averaged
100 Dibenzo(a,h)anthracene	0.59590	0.59961	0.59961	0.000	0.62136	Averaged
101 Benzo(ghi)perylene	0.59674	0.58706	0.58706	0.000	-1.62214	Averaged
126 m-Dinitrobenzene	0.19719	0.20291	0.20291	0.000	2.90185	Averaged
130 2,3,4,6-Tetrachlorophenol	0.21610	0.22964	0.22964	0.000	6.26996	Averaged
143 Dinoseb	0.14124	0.14815	0.14815	0.000	4.89497	Averaged
173 Carbazole	39.62959	40.00000	0.69361	0.000	-0.92602	Linear
184 p-Benzoquinone	59.96687	40.00000	0.12509	0.000	49.91718	Linear
192 Methoxychlor	0.44246	0.51500	0.51500	0.000	16.39459	Averaged
211 p-Toluidine	1.35079	1.41184	1.41184	0.000	4.51960	Averaged
210 m-Toluidine	1.67187	1.84531	1.84531	0.000	10.37395	Averaged
215 2-Ethoxyethanol	0.59723	0.64903	0.64903	0.000	8.67353	Averaged
179 Dibenzo(a,e)pyrene	0.27697	0.27765	0.27765	0.000	0.24290	Averaged
26 Phthalic anhydride	0.06521	0.06606	0.06606	0.000	1.28966	Averaged
214 1,4-Dinitrobenzene	0.20553	0.21422	0.21422	0.000	4.22467	Averaged
216 Methylenebis(2-chloroanilin	38.02896	40.00000	0.10993	0.000	-4.92760	Linear
M 222 Trichlorophenols	0.27408	0.30534	0.30534	0.000	11.40232	Averaged
M 223 Tetrachlorophenols	0.21610	0.22964	0.22964	0.000	6.26996	Averaged
M 224 Benzo(b,k)fluoranthene	0.94920	0.99256	0.99256	0.000	4.56843	Averaged

Data File: /chem/MSD4.i/s021810a.b/s4b1820.d
 Report Date: 19-Feb-2010 09:39

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Data file : /chem/MSD4.i/s021810a.b/s4b1820.d
 Lab Smp Id: WBN100215-09.4 Client Smp ID: MEGACVS
 Inj Date : 18-FEB-2010 17:40
 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/s021810a.b/MSD4-M8270C-AQA-021710.m
 Meth Date : 19-Feb-2010 09:39 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

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	3.936	3.936	(1.000)	130619	40.0000		
* 29 Naphthalene-d8	136	4.807	4.807	(1.000)	531707	40.0000		
* 46 Acenaphthene-d10	164	6.064	6.064	(1.000)	271432	40.0000		
* 67 Phenanthrene-d10	188	7.054	7.054	(1.000)	411657	40.0000		
* 91 Chrysene-d12	240	8.776	8.776	(1.000)	330407	40.0000		
* 98 Perylene-d12	264	10.322	10.322	(1.000)	278361	40.0000		
\$ 3 2-Fluorophenol	112	3.117	3.117	(0.792)	153399	40.0000	41.2	
\$ 5 Phenol-d5	99	3.647	3.647	(0.927)	193444	40.0000	41.4	
\$ 20 Nitrobenzene-d5	82	4.305	4.305	(0.895)	161805	40.0000	39.6	
\$ 39 2-Fluorobiphenyl	172	5.551	5.551	(0.915)	290195	40.0000	41.4	
\$ 60 2,4,6-Tribromophenol	329	6.599	6.599	(1.088)	38220	40.0000	45.0	
\$ 81 p-Terphenyl-d14	244	7.984	7.984	(0.910)	232558	40.0000	45.0	
1 N-Methyl-N-nitrosomethylamine	74	2.427	2.427	(0.617)	107217	40.0000	40.0	
2 Pyridine	79	2.454	2.454	(0.624)	153378	40.0000	40.8	
4 Aniline	66	3.722	3.722	(0.946)	77141	40.0000	41.8	
6 Phenol	94	3.657	3.657	(0.929)	200141	40.0000	42.1	
7 bis(2-Chloroethyl) ether	63	3.738	3.738	(0.950)	118876	40.0000	42.4	
8 2-Chlorophenol	128	3.802	3.802	(0.966)	160863	40.0000	41.3	
203 n-Decane	43	3.780	3.780	(0.961)	153867	40.0000	41.1	
9 1,3-Dichlorobenzene	146	3.903	3.903	(0.992)	162127	40.0000	41.7	
11 1,4-Dichlorobenzene	146	3.946	3.946	(1.003)	166910	40.0000	42.9	
13 1,2-Dichlorobenzene	146	4.053	4.053	(1.030)	141422	40.0000	39.9	
14 bis(2-Chloroisopropyl)ether	45	4.080	4.080	(1.037)	224833	40.0000	42.9	
12 Benzyl alcohol	108	4.005	4.005	(1.018)	98896	40.0000	45.8	
15 o-Cresol	107	4.053	4.053	(1.030)	114550	40.0000	40.0	
18 m,p-Cresols	107	4.155	4.155	(1.056)	162493	40.0000	41.7	
17 N-Nitrosodipropylamine	70	4.176	4.176	(1.061)	113867	40.0000	42.8	

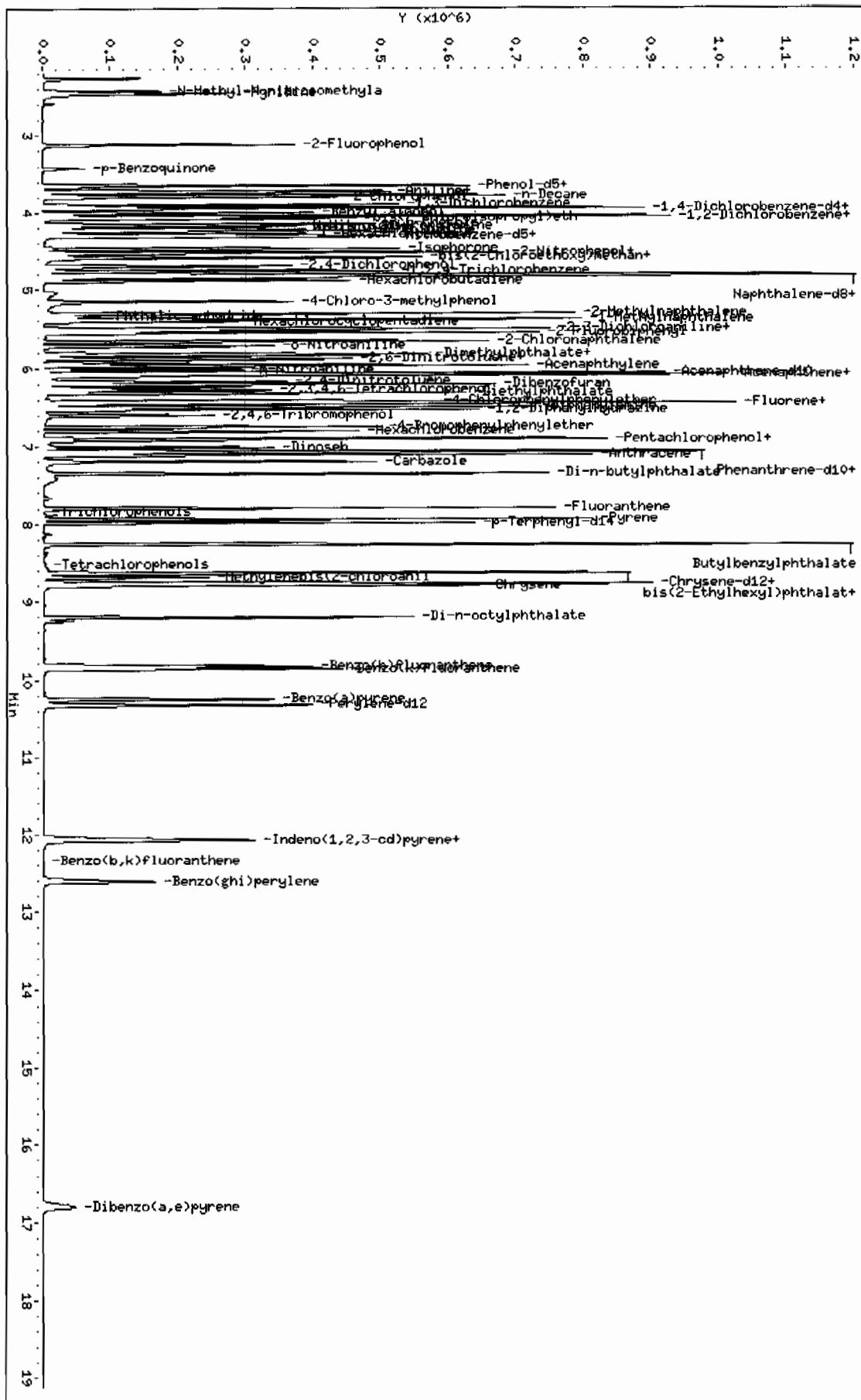
Compounds	QUANT SIG			RESPONSE	AMOUNTS	
	MASS	RT	EXP RT REL RT		CAL-AMT (ng/ul)	ON-COL (ng/ul)
19 Hexachloroethane	117	4.283	4.283 (1.088)	62786	40.0000	43.0
21 Nitrobenzene	77	4.315	4.315 (0.898)	159401	40.0000	40.4
22 Isophorone	82	4.470	4.470 (0.930)	323675	40.0000	39.3
23 2-Nitrophenol	139	4.529	4.529 (0.942)	82177	40.0000	38.4
24 2,4-Dimethylphenol	122	4.519	4.519 (0.940)	144213	40.0000	41.4
25 bis(2-Chloroethoxy)methane	93	4.588	4.588 (0.954)	199246	40.0000	40.4
26 2,4-Dichlorophenol	162	4.695	4.695 (0.977)	120579	40.0000	39.9
27 Benzoic acid	105	4.583	4.583 (0.953)	77161	40.0000	36.3
28 1,2,4-Trichlorobenzene	180	4.754	4.754 (0.989)	123656	40.0000	40.1
30 Naphthalene	128	4.823	4.823 (1.003)	456452	40.0000	37.5
204 alpha-Terpineol	59	4.802	4.802 (0.999)	105155	40.0000	40.6
31 4-Chloroaniline	127	4.839	4.839 (1.007)	226467	40.0000	41.4
32 Hexachlorobutadiene	225	4.882	4.882 (1.016)	62696	40.0000	41.0
33 4-Chloro-3-methylphenol	107	5.150	5.150 (1.071)	125031	40.0000	40.8
34 2-Methylnaphthalene	142	5.305	5.305 (1.103)	283527	40.0000	39.7
35 1-Methylnaphthalene	142	5.380	5.380 (1.119)	277160	40.0000	39.9
36 Hexachlorocyclopentadiene	237	5.406	5.406 (0.892)	54474	40.0000	42.8
205 2,3-Dichloroaniline	161	5.503	5.503 (0.907)	147593	40.0000	41.5
37 2,4,6-Trichlorophenol	196	5.492	5.492 (0.906)	80415	40.0000	45.8
38 2,4,5-Trichlorophenol	196	5.519	5.519 (0.910)	85341	40.0000	42.0
40 2-Chloronaphthalene	162	5.663	5.663 (0.934)	261352	40.0000	40.1
42 o-Nitroaniline	65	5.717	5.717 (0.943)	75808	40.0000	42.0
41 m-Nitroaniline	138	6.016	6.016 (0.992)	71216	40.0000	41.7
43 Dimethylphthalate	163	5.829	5.829 (0.961)	295105	40.0000	41.1
44 2,6-Dinitrotoluene	165	5.888	5.888 (0.971)	71392	40.0000	41.7
50 2,4-Dinitrotoluene	165	6.171	6.171 (1.018)	90336	40.0000	40.4
45 Acenaphthylene	152	5.968	5.968 (0.984)	409005	40.0000	41.2
47 Acenaphthene	154	6.086	6.086 (1.004)	249324	40.0000	36.0
48 2,4-Dinitrophenol	184	6.080	6.080 (1.003)	26491	40.0000	40.7
49 Dibenzofuran	168	6.203	6.203 (1.023)	349726	40.0000	40.9
51 Diethylphthalate	149	6.310	6.310 (1.041)	281655	40.0000	41.6
52 4-Nitrophenol	139	6.096	6.096 (1.005)	52631	40.0000	40.3
53 Fluorene	166	6.439	6.439 (1.062)	287402	40.0000	38.2
54 4-Chlorophenyphenylether	204	6.417	6.417 (1.058)	127174	40.0000	39.5
55 2-Methyl-4,6-dinitrophenol	198	6.449	6.449 (0.914)	46710	40.0000	41.9
56 p-Nitroaniline	138	6.439	6.439 (1.062)	52150	40.0000	39.8
133 Diphenylamine	169	6.492	6.492 (0.920)	231079	40.0000	42.4
58 1,2-Diphenylhydrazine	77	6.524	6.524 (0.925)	310233	40.0000	43.7
61 4-Bromophenylphenylether	248	6.744	6.744 (0.956)	73481	40.0000	40.8
63 Hexachlorobenzene	284	6.802	6.802 (0.964)	81821	40.0000	42.1
65 Pentachlorophenol	266	6.920	6.920 (0.981)	43127	40.0000	45.3
206 n-Octadecane	57	6.899	6.899 (0.978)	167476	40.0000	44.3
68 Phenanthrene	178	7.070	7.070 (1.002)	387271	40.0000	38.1
69 Anthracene	178	7.102	7.102 (1.007)	401566	40.0000	38.9
72 Di-n-butylphthalate	149	7.343	7.343 (1.041)	453803	40.0000	40.7
76 Fluoranthene	202	7.792	7.792 (1.105)	370682	40.0000	39.0
79 Pyrene	202	7.936	7.936 (0.904)	391020	40.0000	43.4

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
85 Butylbenzylphthalate		149	8.257	8.257	(0.941)	161790	40.0000	42.3
89 Benzo (a) anthracene		228	8.760	8.760	(0.998)	303151	40.0000	39.2
92 Chrysene		228	8.797	8.797	(1.002)	317154	40.0000	40.7
93 bis(2-Ethylhexyl)phthalate		149	8.637	8.637	(0.984)	255164	40.0000	46.6
94 Di-n-octylphthalate		149	9.204	9.204	(0.892)	399324	40.0000	48.0
95 Benzo (b) fluoranthene		252	9.824	9.824	(0.952)	277696	40.0000	42.3
96 Benzo (k) fluoranthene		252	9.856	9.856	(0.955)	274886	40.0000	41.4
97 Benzo (a) pyrene		252	10.247	10.247	(0.993)	231023	40.0000	41.2
99 Indeno (1,2,3-cd) pyrene		276	12.071	12.071	(1.169)	197621	40.0000	39.2
100 Dibenzo (a,h) anthracene		278	12.081	12.081	(1.170)	166907	40.0000	40.2
101 Benzo (ghi) perylene		276	12.616	12.616	(1.222)	163415	40.0000	39.4
126 m-Dinitrobenzene		168	5.872	5.872	(0.968)	55077	40.0000	41.2
130 2,3,4,6-Tetrachlorophenol		232	6.273	6.273	(1.034)	62333	40.0000	42.5
143 Dinoseb		211	7.006	7.006	(0.993)	60989	40.0000	42.0
173 Carbazole		167	7.187	7.187	(1.019)	285529	40.0000	39.6
184 p-Benzoquinone		54	3.422	3.422	(0.870)	16339	40.0000	60.0
192 Methoxychlor		227	8.621	8.621	(0.982)	170159	40.0000	46.6
211 p-Toluidine		106	4.214	4.214	(1.071)	184413	40.0000	41.8
210 m-Toluidine		106	4.235	4.235	(1.076)	241033	40.0000	44.1
215 2-Ethoxyethanol		59	2.261	2.261	(0.575)	84776	40.0000	43.5
179 Dibenzo (a,e) pyrene		302	16.799	16.799	(1.628)	77286	40.0000	40.1
26 Phthalic anhydride		104	5.342	5.342	(1.111)	35122	40.0000	40.5
214 1,4-Dinitrobenzene		75	5.813	5.813	(0.959)	58145	40.0000	41.7
216 Methylenebis(2-chloroaniline)		231	8.690	8.690	(0.990)	36322	40.0000	38.0
M 222 Trichlorophenols		196				165756	80.0000	89.1
M 223 Tetrachlorophenols		232				62333	40.0000	42.5
M 224 Benzo (b,k) fluoranthene		252				552582	80.0000	83.6

Instrument: MSD4.1

Column phase: J&W DB-5MS

Operator: JMB3
Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 18-FEB-2010 18:07
Lab File ID: s4b1821.d Init. Cal. Date(s): 16-FEB-2010 17-FEB-2010
Analysis Type: Init. Cal. Times: 10:08 20:54
Lab Sample ID: WBN100103-03.2 Quant Type: ISTD
Method: /chem/MSD4.i/s021810a.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	0.87330	0.87330	0.000	1.78917	60.00000	Averaged
16 Acetophenone	1.21136	1.26363	1.26363	0.000	4.31434	60.00000	Averaged
189 Caprolactam	0.09106	0.09506	0.09506	0.000	4.38838	60.00000	Averaged
208 1,1'-Biphenyl	1.13159	1.21784	1.21784	0.000	7.62143	60.00000	Averaged
207 Atrazine	0.04652	0.04736	0.04736	0.000	1.80820	60.00000	Averaged
77 Benzidine	0.30518	0.37662	0.37662	0.000	23.40924	60.00000	Averaged
90 3,3'-Dichlorobenzidine	0.26870	0.30357	0.30357	0.000	12.97580	60.00000	Averaged
102 1,4-Dioxane	0.41759	0.42788	0.42788	0.000	2.46641	60.00000	Averaged
103 Methyl methacrylate	0.20750	0.20836	0.20836	0.000	0.41413	60.00000	Averaged
104 Ethyl methacrylate	0.85622	0.88231	0.88231	0.000	3.04670	60.00000	Averaged
105 2-Picoline	1.37151	1.41202	1.41202	0.000	2.95355	60.00000	Averaged
106 N-Nitrosomethylethylamine	0.59363	0.58290	0.58290	0.000	-1.80771	60.00000	Averaged
107 Methyl methanesulfonate	0.43779	0.45474	0.45474	0.000	3.87068	60.00000	Averaged
108 N-Nitrosodiethylamine	0.58762	0.57122	0.57122	0.000	-2.79202	60.00000	Averaged
109 Ethyl Methanesulfonate	0.69655	0.68791	0.68791	0.000	-1.24062	60.00000	Averaged
110 Pentachloroethane	0.29093	0.30153	0.30153	0.000	3.64310	60.00000	Averaged
111 N-Nitrosopyrrolidine	0.58368	0.59441	0.59441	0.000	1.83781	60.00000	Averaged
113 N-Nitrosomorpholine	0.48127	0.51338	0.51338	0.000	6.67312	60.00000	Averaged
114 o-Toluidine	1.83778	1.92323	1.92323	0.000	4.64987	60.00000	Averaged
115 N-Nitrosopiperidine	0.15881	0.15602	0.15602	0.000	-1.75145	60.00000	Averaged
116 a,a-Dimethylphenethylamine	0.70536	0.70411	0.70411	0.000	-0.17708	60.00000	Averaged
118 2,6-Dichlorophenol	0.20017	0.20755	0.20755	0.000	3.68918	60.00000	Averaged
119 Hexachloropropene	42.14176	40.00000	0.08784	0.000	5.35441	60.00000	Linear
120 p-Phenylenediamine	0.23280	0.25798	0.25798	0.000	10.81756	60.00000	Averaged
121 N-Nitrosodi-n-butylamine	0.20854	0.20594	0.20594	0.000	-1.24572	60.00000	Averaged
122 Saffrole	0.18358	0.19282	0.19282	0.000	5.03263	60.00000	Averaged
123 1,2,4,5-Tetrachlorobenzene	0.36842	0.37437	0.37437	0.000	1.61478	60.00000	Averaged
124 Isosaffrole	0.35193	0.37363	0.37363	0.000	6.16559	60.00000	Averaged
125 1,4-Naphthoquinone	0.31478	0.33919	0.33919	0.000	7.75316	60.00000	Averaged
127 Pentachlorobenzene	0.32751	0.34614	0.34614	0.000	5.68724	60.00000	Averaged
128 1-Naphthylamine	0.88383	0.99145	0.99145	0.000	12.17621	60.00000	Averaged
129 2-Naphthylamine	0.93409	1.06498	1.06498	0.000	14.01222	60.00000	Averaged
131 5-Nitro-o-toluidine	0.27364	0.30281	0.30281	0.000	10.65945	60.00000	Averaged
136 1,3,5-Trinitrobenzene	46.94276	40.00000	0.12964	0.000	17.35690	60.00000	Linear
137 Phenacetin	0.27663	0.32286	0.32286	0.000	16.70975	60.00000	Averaged
138 Diallate	0.31999	0.31601	0.31601	0.000	-1.24458	60.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD4.i Injection Date: 18-FEB-2010 18:07
 Lab File ID: s4b1821.d Init. Cal. Date(s): 16-FEB-2010 17-FEB-2010
 Analysis Type: Init. Cal. Times: 10:08 20:54
 Lab Sample ID: WBN100103-03.2 Quant Type: ISTD
 Method: /chem/MSD4.i/s021810a.b/MSD4-M8270C-AQA-021710.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
212 Cis Diallate	0.35497	0.34936	0.34936	0.000	-1.57923	60.00000	Averaged
213 Trans Diallate	0.37646	0.37177	0.37177	0.000	-1.24458	60.00000	Averaged
140 4-Aminobiphenyl	0.49579	0.56229	0.56229	0.000	13.41233	60.00000	Averaged
141 Pentachloronitrobenzene	0.05299	0.06003	0.06003	0.000	13.28124	60.00000	Averaged
142 Pronamide	0.22113	0.24143	0.24143	0.000	9.17644	60.00000	Averaged
146 4-Nitroquinoline-1-oxide	0.01286	0.01742	0.01742	0.000	35.41605	60.00000	Averaged
147 Methapyrilene	0.32789	0.35390	0.35390	0.000	7.93166	60.00000	Averaged
148 Isodrin	0.09685	0.09334	0.09334	0.000	-3.62412	60.00000	Averaged
149 Aramite	0.05097	0.05673	0.05673	0.000	11.30846	60.00000	Averaged
150 Kepone	0.07421	0.07762	0.07762	0.000	4.59209	60.00000	Averaged
151 p-(Dimethylamino)azobenzene	0.32064	0.32891	0.32891	0.000	2.57975	60.00000	Averaged
152 Chlorobenzilate	0.29648	0.28819	0.28819	0.000	-2.79683	60.00000	Averaged
153 3,3'-Dimethylbenzidine	0.45577	0.49093	0.49093	0.000	7.71593	60.00000	Averaged
155 2-Acetylaminofluorene	0.27068	0.34497	0.34497	0.000	27.44741	60.00000	Averaged
157 7,12Dimethylbenz(a)anthracene	0.42890	0.43883	0.43883	0.000	2.31459	60.00000	Averaged
158 3-Methylcholanthrene	0.37631	0.37391	0.37391	0.000	-0.63602	60.00000	Averaged

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Data file : /chem/MSD4.i/s021810a.b/s4b1821.d
Lab Smp Id: WBN100103-03.2 Client Smp ID: APCVS
Inj Date : 18-FEB-2010 18:07
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |WBN100103-03.2|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/s021810a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 19-Feb-2010 09:39 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	3.935	3.936	(1.000)	129814	40.0000	
* 29 Naphthalene-d8	136	4.807	4.807	(1.000)	498451	40.0000	
* 46 Acenaphthene-d10	164	6.059	6.064	(1.000)	261202	40.0000	
* 67 Phenanthrene-d10	188	7.054	7.054	(1.000)	403332	40.0000	
* 91 Chrysene-d12	240	8.755	8.776	(1.000)	356587	40.0000	
* 98 Perylene-d12	264	10.300	10.322	(1.000)	310289	40.0000	
209 Benzaldehyde	77	3.663	3.663	(0.931)	113366	40.0000	40.7
16 Acetophenone	105	4.187	4.187	(1.064)	164037	40.0000	41.7
189 Caprolactam	113	5.085	5.085	(1.058)	47381	40.0000	41.8
208 1,1'-Biphenyl	154	5.631	5.631	(0.929)	318102	40.0000	43.0
207 Atrazine	173	6.818	6.818	(0.967)	19103	40.0000	40.7
77 Benzidine	184	7.840	7.840	(0.896)	134296	40.0000	49.4
90 3,3'-Dichlorobenzidine	252	8.680	8.680	(0.991)	108248	40.0000	45.2
102 1,4-Dioxane	88	2.272	2.272	(0.577)	55545	40.0000	41.0
103 Methyl methacrylate	100	2.261	2.261	(0.575)	27048	40.0000	40.2
104 Ethyl methacrylate	69	2.636	2.636	(0.670)	114536	40.0000	41.2
105 2-Picoline	93	2.828	2.828	(0.719)	183300	40.0000	41.2
106 N-Nitrosomethylethylamine	88	2.871	2.871	(0.730)	75668	40.0000	39.3
107 Methyl methanesulfonate	80	3.031	3.031	(0.770)	59031	40.0000	41.5
108 N-Nitrosodiethylamine	102	3.267	3.267	(0.830)	74152	40.0000	38.9
109 Ethyl Methanesulfonate	79	3.422	3.422	(0.870)	89300	40.0000	39.5
110 Pentachloroethane	167	3.759	3.759	(0.955)	39142	40.0000	41.4
111 N-Nitrosopyrrolidine	100	4.181	4.181	(1.063)	77163	40.0000	40.7
113 N-Nitrosomorpholine	56	4.197	4.197	(1.067)	66644	40.0000	42.7
114 o-Toluidine	106	4.214	4.214	(1.071)	249663	40.0000	41.8
115 N-Nitrosopiperidine	114	4.417	4.417	(0.919)	77770	40.0000	39.3
116 a,a-Dimethylphenethylamine	58	4.663	4.663	(0.970)	350966	40.0000	39.9

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====	=====
118 2,6-Dichlorophenol	162	4.845	4.845	(1.008)	103454	40.0000	41.5
119 Hexachloropropene	213	4.871	4.871	(1.013)	43785	40.0000	42.1
120 p-Phenylenediamine	108	5.091	5.091	(1.059)	128590	40.0000	44.3
121 N-Nitrosodi-n-butylamine	84	5.048	5.048	(1.050)	102651	40.0000	39.5
122 Safrole	162	5.219	5.219	(1.086)	96113	40.0000	42.0
123 1,2,4,5-Tetrachlorobenzene	216	5.417	5.417	(0.894)	97785	40.0000	40.6
124 Isosafrole	162	5.588	5.588	(0.922)	97594	40.0000	42.5
125 1,4-Naphthoquinone	158	5.781	5.781	(0.954)	88596	40.0000	43.1
127 Pentachlorobenzene	250	6.166	6.166	(1.018)	90412	40.0000	42.3
128 1-Naphthylamine	143	6.251	6.251	(1.032)	258969	40.0000	44.9
129 2-Naphthylamine	143	6.305	6.305	(1.041)	278176	40.0000	45.6
131 5-Nitro-o-toluidine	152	6.428	6.428	(1.061)	79095	40.0000	44.3
136 1,3,5-Trinitrobenzene	75	6.642	6.642	(0.942)	52289	40.0000	46.9
137 Phenacetin	108	6.679	6.679	(0.947)	130219	40.0000	46.7(Q)
138 Diallate	86	6.663	6.663	(0.945)	127455	40.0000	39.5
212 Cis Diallate	86	6.727	6.727	(0.954)	21136	6.00000	5.9
213 Trans Diallate	86	6.663	6.663	(0.945)	127455	34.0000	33.6
140 4-Aminobiphenyl	169	6.909	6.909	(0.980)	226789	40.0000	45.4
141 Pentachloronitrobenzene	237	6.925	6.925	(0.982)	24213	40.0000	45.3(Q)
142 Pronamide	173	6.915	6.915	(0.980)	97375	40.0000	43.7
146 4-Nitroquinoline-1-oxide	101	7.530	7.530	(1.067)	7024	40.0000	54.2
147 Methapyrilene	58	7.535	7.535	(1.068)	142739	40.0000	43.2
148 Isodrin	193	7.695	7.695	(1.091)	37648	40.0000	38.6
149 Aramite	185	7.925	7.925	(1.124)	22882	40.0000	44.5
150 Kepone	272	8.364	8.364	(1.186)	31307	40.0000	41.8
151 p-(Dimethylamino)azobenzene	120	8.054	8.054	(0.920)	117286	40.0000	41.0
152 Chlorobenzilate	251	8.070	8.070	(0.922)	102764	40.0000	38.9
153 3,3'-Dimethylbenzidine	212	8.273	8.273	(0.945)	175060	40.0000	43.1
155 2-Acetylaminofluorene	181	8.460	8.460	(0.966)	123013	40.0000	51.0
157 7,12Dimethylbenz(a)anthracene	256	9.771	9.771	(0.949)	136163	40.0000	40.9
158 3-Methylcholanthrene	268	10.680	10.680	(1.037)	116021	40.0000	39.7

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/HSD4.i/s021810a.b/s4b1821.d

Date: 18-FEB-2010 18:07

Client ID: APCVS

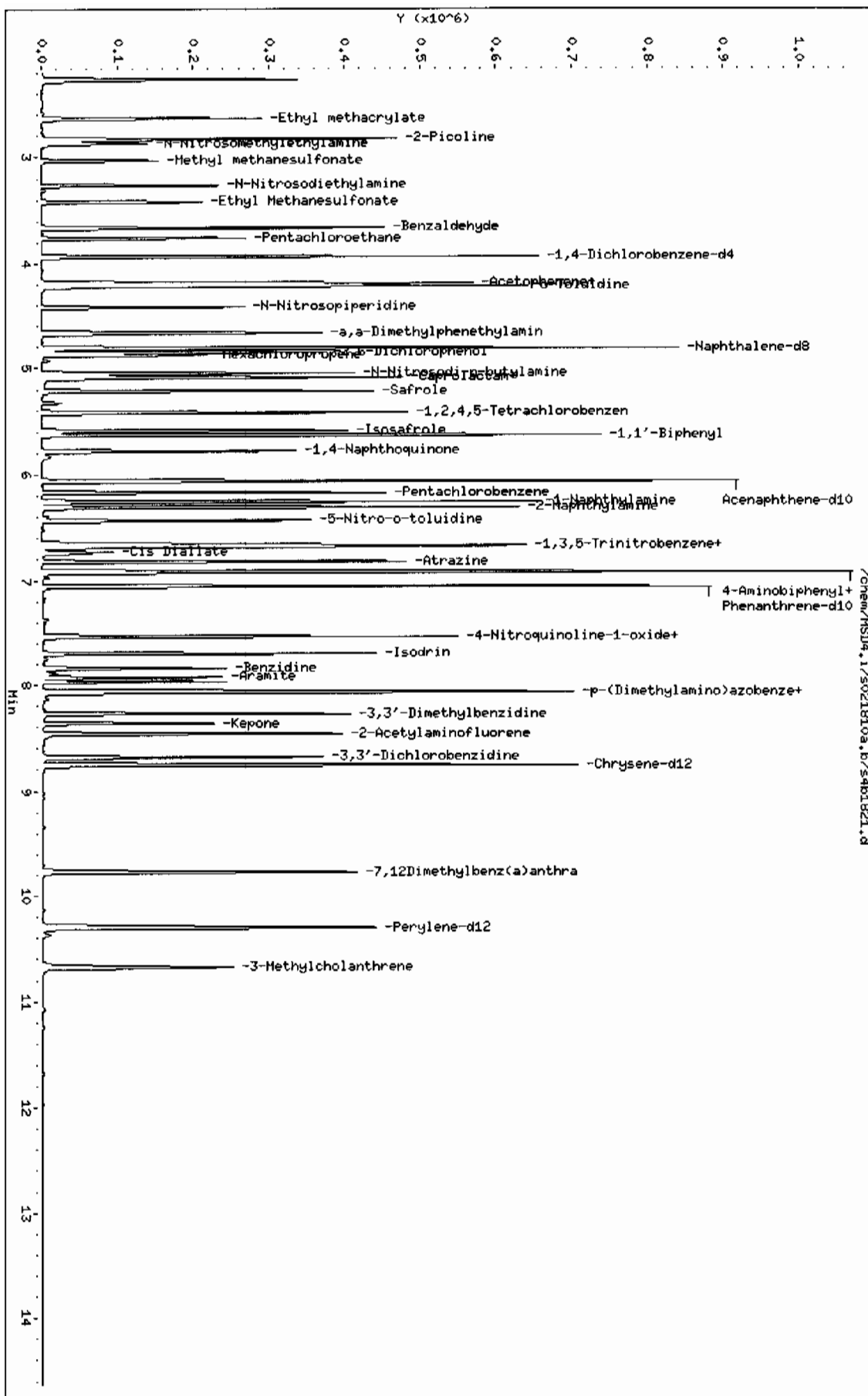
Sample Info: IABN100103-03.21CWS111SVHF11APCVS

Column phase: J&W DB-5MS

Instrument: HSD4.i

Operator: JMB3

Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD6.i Injection Date: 16-FEB-2010 13:59
Lab File ID: s6b1608.d Init. Cal. Date(s): 09-NOV-2009 11-NOV-2009
Analysis Type: Init. Cal. Times: 18:53 04:38
Lab Sample ID: WBN100215-09.1 Quant Type: ISTD
Method: /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
3 2-Fluorophenol	1.00169	0.90025	0.90025	0.000	-10.12645	60.00000	Averaged
5 Phenol-d5	1.26427	1.14620	1.14620	0.000	-9.33866	60.00000	Averaged
20 Nitrobenzene-d5	0.28296	0.26346	0.26346	0.000	-6.89037	60.00000	Averaged
39 2-Fluorobiphenyl	1.03083	0.99434	0.99434	0.000	-3.54034	60.00000	Averaged
60 2,4,6-Tribromophenol	0.11675	0.10815	0.10815	0.000	-7.36149	60.00000	Averaged
81 p-Terphenyl-d14	0.64507	0.67359	0.67359	0.000	4.42124	60.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.68098	0.55226	0.55226	0.000	-18.90161	60.00000	Averaged
2 Pyridine	0.84757	0.63669	0.63669	0.000	-24.88032	60.00000	Averaged
4 Aniline	0.52752	0.46119	0.46119	0.000	-12.57425	60.00000	Averaged
6 Phenol	1.27120	1.17679	1.17679	0.001	-7.42652	20.00000	Averaged ccc
7 bis(2-Chloroethyl) ether	0.86081	0.73821	0.73821	0.000	-14.24266	60.00000	Averaged
8 2-Chlorophenol	1.02109	0.99812	0.99812	0.000	-2.24922	60.00000	Averaged
203 n-Decane	1.42254	1.28032	1.28032	0.000	-9.99725	60.00000	Averaged
9 1,3-Dichlorobenzene	1.17550	1.18046	1.18046	0.000	0.42239	60.00000	Averaged
11 1,4-Dichlorobenzene	1.19162	1.18291	1.18291	0.001	-0.73104	20.00000	Averaged ccc
13 1,2-Dichlorobenzene	1.11231	1.11123	1.11123	0.000	-0.09649	60.00000	Averaged
14 bis(2-Chloroisopropyl)ether	1.92182	1.84027	1.84027	0.000	-4.24370	60.00000	Averaged
12 Benzyl alcohol	0.63436	0.46384	0.46384	0.000	-26.88091	60.00000	Averaged
15 o-Cresol	0.83139	0.77508	0.77508	0.000	-6.77281	60.00000	Averaged
18 m,p-Cresols	1.05346	1.00185	1.00185	0.000	-4.89915	60.00000	Averaged
17 N-Nitrosodipropylamine	0.70865	0.71023	0.71023	0.050	0.22289	60.00000	Averaged spcc
19 Hexachloroethane	0.46100	0.45331	0.45331	0.000	-1.66737	60.00000	Averaged
21 Nitrobenzene	0.28519	0.26424	0.26424	0.000	-7.34625	60.00000	Averaged
22 Isophorone	0.50552	0.48594	0.48594	0.000	-3.87290	60.00000	Averaged
23 2-Nitrophenol	0.13154	0.13308	0.13308	0.001	1.16444	20.00000	Averaged ccc
24 2,4-Dimethylphenol	0.21795	0.21257	0.21257	0.000	-2.47059	60.00000	Averaged
25 bis(2-Chloroethoxy)methane	0.29749	0.26948	0.26948	0.000	-9.41767	60.00000	Averaged
26 2,4-Dichlorophenol	0.19769	0.20502	0.20502	0.001	3.71141	20.00000	Averaged ccc
27 Benzoic acid	0.13453	0.11806	0.11806	0.000	-12.23844	60.00000	Averaged
28 1,2,4-Trichlorobenzene	0.24261	0.24102	0.24102	0.000	-0.65866	60.00000	Averaged
30 Naphthalene	0.79792	0.70204	0.70204	0.000	-12.01523	60.00000	Averaged
204 alpha-Terpeneol	0.21868	0.20360	0.20360	0.000	-6.89363	60.00000	Averaged
31 4-Chloroaniline	0.25646	0.21191	0.21191	0.000	-17.36886	60.00000	Averaged
32 Hexachlorobutadiene	0.12634	0.13413	0.13413	0.001	6.16627	20.00000	Averaged ccc
33 4-Chloro-3-methylphenol	0.19957	0.20416	0.20416	0.001	2.30197	20.00000	Averaged ccc
34 2-Methylnaphthalene	0.48150	0.49720	0.49720	0.000	3.25996	60.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD6.i Injection Date: 16-FEB-2010 13:59
Lab File ID: s6b1608.d Init. Cal. Date(s): 09-NOV-2009 11-NOV-2009
Analysis Type: Init. Cal. Times: 18:53 04:38
Lab Sample ID: WBN100215-09.1 Quant Type: ISTD
Method: /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
35 1-Methylnaphthalene	0.47100	0.47315	0.47315	0.000	0.45545	60.00000	Averaged
36 Hexachlorocyclopentadiene	0.16157	0.07031	0.07031	0.050	-56.48556	60.00000	Averaged spcc
205 2,3-Dichloroaniline	0.47908	0.44584	0.44584	0.000	-6.93887	60.00000	Averaged
37 2,4,6-Trichlorophenol	0.27294	0.26998	0.26998	0.001	-1.08339	20.00000	Averaged ccc
38 2,4,5-Trichlorophenol	0.29067	0.28341	0.28341	0.000	-2.49664	60.00000	Averaged
40 2-Chloronaphthalene	0.89832	0.84767	0.84767	0.000	-5.63896	60.00000	Averaged
42 o-Nitroaniline	0.30732	0.25028	0.25028	0.000	-18.56236	60.00000	Averaged
41 m-Nitroaniline	0.22497	0.13081	0.13081	0.000	-41.85625	60.00000	Averaged
43 Dimethylphthalate	1.02610	0.98755	0.98755	0.000	-3.75690	60.00000	Averaged
44 2,6-Dinitrotoluene	0.24475	0.23524	0.23524	0.000	-3.88321	60.00000	Averaged
50 2,4-Dinitrotoluene	0.30862	0.29187	0.29187	0.000	-5.42901	60.00000	Averaged
45 Acenaphthylene	1.44438	1.37907	1.37907	0.000	-4.52198	60.00000	Averaged
47 Acenaphthene	0.90151	0.80019	0.80019	0.001	-11.23921	20.00000	Averaged ccc
48 2,4-Dinitrophenol	34.79430	40.00000	0.06634	0.050	-13.01424	60.00000	Linear spcc
49 Dibenzofuran	1.21689	1.16899	1.16899	0.000	-3.93641	60.00000	Averaged
51 Diethylphthalate	1.03335	1.02579	1.02579	0.000	-0.73120	60.00000	Averaged
52 4-Nitrophenol	31.52486	40.00000	0.12209	0.050	-21.18785	60.00000	Linear spcc
53 Fluorene	0.99879	0.95510	0.95510	0.000	-4.37459	60.00000	Averaged
54 4-Chlorophenylphenylether	0.47192	0.46990	0.46990	0.000	-0.42877	60.00000	Averaged
55 2-Methyl-4,6-dinitrophenol	42.20970	40.00000	0.09465	0.000	5.52424	60.00000	Linear
56 p-Nitroaniline	18.69978	40.00000	0.07421	0.000	-53.25056	60.00000	Linear
133 Diphenylamine	0.48213	0.41011	0.41011	0.001	-14.93865	20.00000	Averaged ccc
58 1,2-Diphenylhydrazine	0.61327	0.56460	0.56460	0.000	-7.93555	60.00000	Averaged
61 4-Bromophenylphenylether	0.15784	0.14794	0.14794	0.000	-6.27103	60.00000	Averaged
63 Hexachlorobenzene	0.16533	0.15577	0.15577	0.000	-5.78221	60.00000	Averaged
65 Pentachlorophenol	32.22261	40.00000	0.06689	0.001	-19.44349	20.00000	Linear ccc
206 n-Octadecane	0.44173	0.42017	0.42017	0.000	-4.88078	60.00000	Averaged
68 Phenanthrene	0.82721	0.76469	0.76469	0.000	-7.55820	60.00000	Averaged
69 Anthracene	0.82682	0.76977	0.76977	0.000	-6.90045	60.00000	Averaged
72 Di-n-butylphthalate	0.94954	0.99016	0.99016	0.000	4.27875	60.00000	Averaged
76 Fluoranthene	0.79242	0.78024	0.78024	0.001	-1.53731	20.00000	Averaged ccc
79 Pyrene	1.10021	1.01293	1.01293	0.000	-7.93309	60.00000	Averaged
85 Butylbenzylphthalate	0.50351	0.51678	0.51678	0.000	2.63609	60.00000	Averaged
89 Benzo(a)anthracene	0.86301	0.78303	0.78303	0.000	-9.26721	60.00000	Averaged
92 Chrysene	0.82690	0.76973	0.76973	0.000	-6.91391	60.00000	Averaged
93 bis(2-Ethylhexyl)phthalate	41.64836	40.00000	0.72267	0.000	4.12089	60.00000	Wt. Linear

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD6.i Injection Date: 16-FEB-2010 13:59
Lab File ID: s6b1608.d Init. Cal. Date(s): 09-NOV-2009 11-NOV-2009
Analysis Type: Init. Cal. Times: 18:53 04:38
Lab Sample ID: WBN100215-09.1 Quant Type: ISTD
Method: /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Di-n-octylphthalate	1.27127	1.38269	1.38269	0.001	8.76410	20.00000	Averaged ccc
95 Benzo(b)fluoranthene	0.88507	0.88433	0.88433	0.000	-0.08389	60.00000	Averaged
96 Benzo(k)fluoranthene	0.88011	0.89494	0.89494	0.000	1.68491	60.00000	Averaged
97 Benzo(a)pyrene	0.76447	0.81187	0.81187	0.001	6.20139	20.00000	Averaged ccc
99 Indeno(1,2,3-cd)pyrene	37.79934	40.00000	0.68455	0.000	-5.50164	60.00000	Linear
100 Dibenzo(a,h)anthracene	36.76551	40.00000	0.54209	0.000	-8.08623	60.00000	Linear
101 Benzo(ghi)perylene	0.58403	0.56119	0.56119	0.000	-3.91111	60.00000	Averaged
126 m-Dinitrobenzene	0.16929	0.15272	0.15272	0.000	-9.79151	60.00000	Averaged
130 2,3,4,6-Tetrachlorophenol	0.21896	0.21824	0.21824	0.000	-0.32683	60.00000	Averaged
143 Dinosb	36.72941	40.00000	0.11249	0.000	-8.17648	60.00000	Linear
173 Carbazole	0.65449	0.44420	0.44420	0.000	-32.13060	60.00000	Averaged
184 p-Benzoquinone	0.12730	0.04127	0.04127	0.000	-67.58392	60.00000	Averaged <-
192 Methoxychlor	0.55243	0.51876	0.51876	0.000	-6.09550	60.00000	Averaged
211 p-Toluidine	0.89987	0.75695	0.75695	0.000	-15.88256	60.00000	Averaged
210 m-Toluidine	1.12396	0.93811	0.93811	0.000	-16.53546	60.00000	Averaged
215 2-Ethoxyethanol	0.71035	0.48522	0.48522	0.000	-31.69368	60.00000	Averaged
26 Phthalic anhydride	48.06339	40.00000	0.09474	0.000	20.15849	60.00000	Linear
214 1,4-Dinitrobenzene	0.18382	0.15505	0.15505	0.000	-15.64794	60.00000	Averaged
216 Methylenebis(2-chloroanilin	24.27610	40.00000	0.06811	0.000	-39.30974	60.00000	Linear
IM 225 Trichlorophenols	0.28180	0.27670	0.27670	0.000	-1.81224	60.00000	Averaged
IM 226 Tetrachlorophenols	0.21896	0.21824	0.21824	0.000	-0.32683	60.00000	Averaged
IM 227 Benzo(b,k)fluoranthene	0.88259	0.88963	0.88963	0.000	0.79802	60.00000	Averaged

Data File: /chem/MSD6.i/s021610.b/s6b1608.d
Report Date: 16-Feb-2010 17:40

Page 1

GEL Laboratories LLC

Data file : /chem/MSD6.i/s021610.b/s6b1608.d
Lab Smp Id: WBN100215-09.1 Client Smp ID: MEGACVS
Inj Date : 16-FEB-2010 13:59
Operator : nag1 Inst ID: MSD6.i
Smp Info : |WBN100215-09.1|CCV|1|SVM|1|MEGACVS
Misc Info : |MSD8270|WBN100205-01
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
Meth Date : 16-Feb-2010 17:39 nat00999 Quant Type: ISTD
Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: MEGA.sub
Target Version: 3.50
Processing Host: hpclpl

Compounds	QUANT SIG			RESPONSE	AMOUNTS	
	MASS	RT	EXP RT REL RT		CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	----	==	-----	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	152	4.650	4.650 (1.000)	257565	40.0000	
* 29 Naphthalene-d8	136	5.917	5.917 (1.000)	1053168	40.0000	
* 46 Acenaphthene-d10	164	7.779	7.779 (1.000)	574039	40.0000	
* 67 Phenanthrene-d10	188	9.382	9.382 (1.000)	1015777	40.0000	
* 91 Chrysene-d12	240	12.338	12.338 (1.000)	813328	40.0000	
* 98 Perylene-d12	264	14.557	14.557 (1.000)	637712	40.0000	
\$ 3 2-Fluorophenol	112	3.496	3.496 (0.752)	231874	40.0000	35.9
\$ 5 Phenol-d5	99	4.273	4.273 (0.919)	295222	40.0000	36.3
\$ 20 Nitrobenzene-d5	82	5.185	5.185 (0.876)	277469	40.0000	37.2
\$ 39 2-Fluorobiphenyl	172	7.040	7.040 (0.905)	570788	40.0000	38.6
\$ 60 2,4,6-Tribromophenol	329	8.625	8.625 (1.109)	62085	40.0000	37.0
\$ 81 p-Terphenyl-d14	244	11.087	11.087 (0.899)	547847	40.0000	41.8
1 N-Methyl-N-nitrosomethylamine	74	2.546	2.546 (0.547)	142243	40.0000	32.4
2 Pyridine	79	2.579	2.579 (0.555)	163990	40.0000	30.0
4 Aniline	66	4.344	4.344 (0.934)	118786	40.0000	35.0
6 Phenol	94	4.286	4.286 (0.922)	303100	40.0000	37.0 (Q)
7 bis(2-Chloroethyl) ether	63	4.383	4.383 (0.942)	190136	40.0000	34.3
8 2-Chlorophenol	128	4.454	4.454 (0.958)	257082	40.0000	39.1
203 n-Decane	43	4.462	4.462 (0.959)	329766	40.0000	36.0
9 1,3-Dichlorobenzene	146	4.599	4.599 (0.989)	304046	40.0000	40.2
11 1,4-Dichlorobenzene	146	4.666	4.666 (1.003)	304676	40.0000	39.7
13 1,2-Dichlorobenzene	146	4.811	4.811 (1.035)	286215	40.0000	40.0
14 bis(2-Chloroisopropyl)ether	45	4.887	4.887 (1.051)	473988	40.0000	38.3
12 Benzyl alcohol	108	4.765	4.765 (1.025)	119469	40.0000	29.2
15 o-Cresol	107	4.854	4.854 (1.044)	199633	40.0000	37.3
18 m,p-Cresols	107	5.010	5.010 (1.077)	258041	40.0000	38.0

Compounds	QUANT SIG			REL RT	RESPONSE	AMOUNTS	
	MASS	RT	EXP RT			CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	====	==	=====	=====	=====	=====	=====
17 N-Nitrosodipropylamine	70	5.022	5.022	(1.080)	182931	40.0000	40.1
19 Hexachloroethane	117	5.139	5.139	(1.105)	116757	40.0000	39.3
21 Nitrobenzene	77	5.206	5.206	(0.880)	278289	40.0000	37.1
22 Isophorone	82	5.438	5.438	(0.919)	511774	40.0000	38.4
23 2-Nitrophenol	139	5.519	5.519	(0.933)	140152	40.0000	40.5
24 2,4-Dimethylphenol	122	5.542	5.542	(0.937)	223869	40.0000	39.0
25 bis(2-Chloroethoxy)methane	93	5.641	5.641	(0.953)	283803	40.0000	36.2
26 2,4-Dichlorophenol	162	5.766	5.766	(0.975)	215923	40.0000	41.5
27 Benzoic acid	105	5.649	5.649	(0.955)	124342	40.0000	35.1
28 1,2,4-Trichlorobenzene	180	5.850	5.850	(0.989)	253831	40.0000	39.7
30 Naphthalene	128	5.940	5.940	(1.004)	739371	40.0000	35.2
204 alpha-Terpineol	59	5.932	5.932	(1.003)	214429	40.0000	37.2
31 4-Chloroaniline	127	5.985	5.985	(1.012)	223181	40.0000	33.0
32 Hexachlorobutadiene	225	6.052	6.052	(1.023)	141262	40.0000	42.5
33 4-Chloro-3-methylphenol	107	6.477	6.477	(1.095)	215014	40.0000	40.9
34 2-Methylnaphthalene	142	6.661	6.661	(1.126)	523630	40.0000	41.3
35 1-Methylnaphthalene	142	6.765	6.765	(1.143)	498305	40.0000	40.2
36 Hexachlorocyclopentadiene	237	6.819	6.819	(0.876)	40358	40.0000	17.4
205 2,3-Dichloroaniline	161	6.959	6.959	(0.895)	255927	40.0000	37.2
37 2,4,6-Trichlorophenol	196	6.954	6.954	(0.894)	154980	40.0000	39.6
38 2,4,5-Trichlorophenol	196	6.995	6.995	(0.899)	162689	40.0000	39.0
40 2-Chloronaphthalene	162	7.181	7.181	(0.923)	486594	40.0000	37.7
42 o-Nitroaniline	65	7.285	7.285	(0.936)	143669	40.0000	32.6
41 m-Nitroaniline	138	7.733	7.733	(0.994)	75088	40.0000	23.2
43 Dimethylphthalate	163	7.474	7.474	(0.961)	566893	40.0000	38.5
44 2,6-Dinitrotoluene	165	7.547	7.547	(0.970)	135039	40.0000	38.4
50 2,4-Dinitrotoluene	165	7.978	7.978	(1.026)	167542	40.0000	37.8
45 Acenaphthylene	152	7.629	7.629	(0.981)	791638	40.0000	38.2
47 Acenaphthene	154	7.815	7.815	(1.005)	459339	40.0000	35.5
48 2,4-Dinitrophenol	184	7.846	7.846	(1.008)	38081	40.0000	34.8
49 Dibenzofuran	168	7.998	7.998	(1.028)	671044	40.0000	38.4
51 Diethylphthalate	149	8.223	8.223	(1.057)	588844	40.0000	39.7
52 4-Nitrophenol	139	7.907	7.907	(1.016)	70085	40.0000	31.5
53 Fluorene	166	8.368	8.368	(1.076)	548265	40.0000	38.2
54 4-Chlorophenylphenylether	204	8.355	8.355	(1.074)	269740	40.0000	39.8
55 2-Methyl-4,6-dinitrophenol	198	8.421	8.421	(0.898)	96142	40.0000	42.2
56 p-Nitroaniline	138	8.391	8.391	(1.079)	42600	40.0000	18.7
133 Diphenylamine	169	8.483	8.483	(0.904)	416580	40.0000	34.0
58 1,2-Diphenylhydrazine	77	8.528	8.528	(0.909)	573510	40.0000	36.8
61 4-Bromophenylphenylether	248	8.883	8.883	(0.947)	150274	40.0000	37.5
63 Hexachlorobenzene	284	8.959	8.959	(0.955)	158228	40.0000	37.7
65 Pentachlorophenol	266	9.171	9.171	(0.977)	67944	40.0000	32.2
206 n-Octadecane	57	9.224	9.224	(0.983)	426801	40.0000	38.0
68 Phenanthrene	178	9.408	9.408	(1.003)	776756	40.0000	37.0
69 Anthracene	178	9.464	9.464	(1.009)	781914	40.0000	37.2
72 Di-n-butylphthalate	149	9.981	9.981	(1.064)	1005786	40.0000	41.7
76 Fluoranthene	202	10.692	10.692	(1.140)	792547	40.0000	39.4

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
							(ng/ul)	(ng/ul)
79 Pyrene		202	10.942	10.942	(0.887)	823841	40.0000	36.8
85 Butylbenzylphthalate		149	11.607	11.607	(0.941)	420310	40.0000	41.0
89 Benzo(a)anthracene		228	12.318	12.318	(0.998)	636860	40.0000	36.3
92 Chrysene		228	12.371	12.371	(1.003)	626041	40.0000	37.2
93 bis(2-Ethylhexyl)phthalate		149	12.300	12.300	(0.997)	587764	40.0000	41.6
94 Di-n-octylphthalate		149	13.232	13.232	(0.909)	881757	40.0000	43.5
95 Benzo(b)fluoranthene		252	13.908	13.908	(0.955)	563949	40.0000	40.0
96 Benzo(k)fluoranthene		252	13.956	13.956	(0.959)	570711	40.0000	40.7
97 Benzo(a)pyrene		252	14.458	14.458	(0.993)	517742	40.0000	42.5
99 Indeno(1,2,3-cd)pyrene		276	16.479	16.479	(1.132)	436544	40.0000	37.8
100 Dibenzo(a,h)anthracene		278	16.507	16.507	(1.134)	345697	40.0000	36.8
101 Benzo(ghi)perylene		276	16.975	16.975	(1.166)	357875	40.0000	38.4(Q)
126 m-Dinitrobenzene		168	7.519	7.519	(0.967)	87666	40.0000	36.1
130 2,3,4,6-Tetrachlorophenol		232	8.123	8.123	(1.044)	125280	40.0000	39.9
143 Dinoseb		211	9.354	9.354	(0.997)	114269	40.0000	36.7
173 Carbazole		167	9.632	9.632	(1.027)	451210	40.0000	27.1
184 p-Benzoquinone		54	3.932	3.932	(0.845)	10629	40.0000	13.0
192 Methoxychlor		227	12.200	12.200	(0.989)	421921	40.0000	37.6
211 p-Toluidine		106	5.068	5.068	(1.090)	194964	40.0000	33.6
210 m-Toluidine		106	5.104	5.104	(1.098)	241624	40.0000	33.4
215 2-Ethoxyethanol		59	2.339	2.339	(0.503)	124975	40.0000	27.3
26 Phthalic anhydride		104	6.727	6.727	(1.137)	99779	40.0000	48.1
214 1,4-Dinitrobenzene		75	7.438	7.438	(0.956)	89006	40.0000	33.7
216 Methylenebis(2-chloroaniline)		231	12.269	12.269	(0.994)	55399	40.0000	24.3(Q)
M 225 Trichlorophenols		196				317669	80.0000	78.6
M 226 Tetrachlorophenols		232				125280	40.0000	39.9
M 227 Benzo(b,k)fluoranthene		252				1134660	80.0000	80.6

QC Flag Legend

Q - Qualifier signal failed the ratio test.

GEI Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD6.i Injection Date: 16-FEB-2010 14:28
Lab File ID: s6b1609.d Init. Cal. Date(s): 09-NOV-2009 11-NOV-2009
Analysis Type: Init. Cal. Times: 18:53 04:38
Lab Sample ID: WBN100120-08.2 Quant Type: ISTD
Method: /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
209 Benzaldehyde	0.86127	0.65992	0.65992	0.000	-23.37810	60.00000	Averaged
16 Acetophenone	1.16908	1.07437	1.07437	0.000	-8.10138	60.00000	Averaged
189 Caprolactam	0.07388	0.08181	0.08181	0.000	10.72902	60.00000	Averaged
208 1,1'-Biphenyl	1.20131	1.11177	1.11177	0.000	-7.45309	60.00000	Averaged
207 Atrazine	0.04063	0.03949	0.03949	0.000	-2.81239	60.00000	Averaged
77 Benzidine	0.39304	0.21644	0.21644	0.000	-44.93133	60.00000	Averaged
90 3,3'-Dichlorobenzidine	0.28252	0.27609	0.27609	0.000	-2.27305	60.00000	Averaged
102 1,4-Dioxane	0.36606	0.37306	0.37306	0.000	1.91189	60.00000	Averaged
103 Methyl methacrylate	0.19388	0.19399	0.19399	0.000	0.05718	60.00000	Averaged
104 Ethyl methacrylate	0.80561	0.80200	0.80200	0.000	-0.44770	60.00000	Averaged
105 2-Picoline	1.30872	1.06879	1.06879	0.000	-18.33336	60.00000	Averaged
106 N-Nitrosomethylethylamine	0.51104	0.43471	0.43471	0.000	-14.93452	60.00000	Averaged
107 Methyl methanesulfonate	0.52852	0.50596	0.50596	0.000	-4.26940	60.00000	Averaged
108 N-Nitrosodiethylamine	0.49553	0.44853	0.44853	0.000	-9.48454	60.00000	Averaged
109 Ethyl Methanesulfonate	0.65169	0.70876	0.70876	0.000	8.75813	60.00000	Averaged
110 Pentachloroethane	0.31681	0.39944	0.39944	0.000	26.08315	60.00000	Averaged
111 N-Nitrosopyrrolidine	0.47614	0.47389	0.47389	0.000	-0.47086	60.00000	Averaged
113 N-Nitrosomorpholine	0.67936	0.65648	0.65648	0.000	-3.36824	60.00000	Averaged
114 o-Toluidine	1.65281	1.51480	1.51480	0.000	-8.35003	60.00000	Averaged
115 N-Nitrosopiperidine	0.14105	0.13287	0.13287	0.000	-5.79915	60.00000	Averaged
116 a,a-Dimethylphenethylamine	0.85546	0.38324	0.38324	0.000	-55.20072	60.00000	Averaged
118 2,6-Dichlorophenol	0.20687	0.20848	0.20848	0.000	0.77768	60.00000	Averaged
119 Hexachloropropene	0.10269	0.14664	0.14664	0.000	42.80956	60.00000	Averaged
120 p-Phenylenediamine	0.22955	0.18233	0.18233	0.000	-20.57127	60.00000	Averaged
121 N-Nitrosodi-n-butylamine	0.21004	0.19696	0.19696	0.000	-6.22980	60.00000	Averaged
122 Safrole	0.18653	0.21040	0.21040	0.000	12.79780	60.00000	Averaged
123 1,2,4,5-Tetrachlorobenzene	0.42319	0.41752	0.41752	0.000	-1.34088	60.00000	Averaged
124 Isosafrole	0.33959	0.40848	0.40848	0.000	20.28498	60.00000	Averaged
125 1,4-Naphthoquinone	0.30674	0.28905	0.28905	0.000	-5.76476	60.00000	Averaged
127 Pentachlorobenzene	0.36454	0.36522	0.36522	0.000	0.18511	60.00000	Averaged
128 1-Naphthylamine	0.90742	0.86316	0.86316	0.000	-4.87692	60.00000	Averaged
129 2-Naphthylamine	0.98012	0.87244	0.87244	0.000	-10.98654	60.00000	Averaged
131 5-Nitro-o-toluidine	0.27901	0.26811	0.26811	0.000	-3.90759	60.00000	Averaged
136 1,3,5-Trinitrobenzene	50.42822	40.00000	0.15175	0.000	26.07054	60.00000	Linear
137 Phenacetin	0.26240	0.25534	0.25534	0.000	-2.68817	60.00000	Averaged
138 Diallate	0.24056	0.20342	0.20342	0.000	-15.44102	60.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD6.i Injection Date: 16-FEB-2010 14:28
Lab File ID: s6b1609.d Init. Cal. Date(s): 09-NOV-2009 11-NOV-2009
Analysis Type: Init. Cal. Times: 18:53 04:38
Lab Sample ID: WBN100120-08.2 Quant Type: ISTD
Method: /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
212 Cis Diallate	0.25295	0.28411	0.28411	0.000	12.32018	60.00000	Averaged
213 Trans Diallate	0.28301	0.23931	0.23931	0.000	-15.44102	60.00000	Averaged
140 4-Aminobiphenyl	0.53562	0.44648	0.44648	0.000	-16.64257	60.00000	Averaged
141 Pentachloronitrobenzene	0.06192	0.06592	0.06592	0.000	6.46037	60.00000	Averaged
142 Pronamide	0.26319	0.26505	0.26505	0.000	0.70763	60.00000	Averaged
146 4-Nitroquinoline-1-oxide	0.02349	0.01164	0.01164	0.000	-50.45106	60.00000	Averaged
147 Methapyrilene	0.38600	0.39014	0.39014	0.000	1.07252	60.00000	Averaged
148 Isodrin	0.09631	0.09342	0.09342	0.000	-2.99829	60.00000	Averaged
149 Aramite	0.04420	0.04388	0.04388	0.000	-0.73566	60.00000	Averaged
150 Kepone	0.06173	0.05720	0.05720	0.000	-7.33036	60.00000	Averaged
151 p-(Dimethylamino)azobenzene	0.31734	0.27587	0.27587	0.000	-13.06701	60.00000	Averaged
152 Chlorobenzilate	0.29130	0.26518	0.26518	0.000	-8.96594	60.00000	Averaged
153 3,3'-Dimethylbenzidine	0.52763	0.41612	0.41612	0.000	-21.13554	60.00000	Averaged
155 2-Acetylaminofluorene	40.37262	40.00000	0.33025	0.000	0.93156	60.00000	Linear
157 7,12Dimethylbenz(a)anthracene	0.47906	0.42565	0.42565	0.000	-11.14942	60.00000	Averaged
158 3-Methylcholanthrene	0.36955	0.38523	0.38523	0.000	4.24222	60.00000	Averaged

Data File: /chem/MSD6.i/s021610.b/s6b1609.d
 Report Date: 16-Feb-2010 16:20

Page 1

GEL Laboratories LLC

Data file : /chem/MSD6.i/s021610.b/s6b1609.d
 Lab Smp Id: WBN100120-08.2 Client Smp ID: APCVS
 Inj Date : 16-FEB-2010 14:28
 Operator : nag1 Inst ID: MSD6.i
 Smp Info : |WBN100120-08.2|CCV|1|SVM|1|APCVS
 Misc Info : |MSD8270|WBN100205-01
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
 Meth Date : 16-Feb-2010 16:20 llo00884 Quant Type: ISTD
 Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AP12.sub
 Target Version: 3.50
 Processing Host: hpcpl1

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		4.650	4.650	(1.000)	327654	40.0000	
* 29 Naphthalene-d8	136		5.916	5.916	(1.000)	1212585	40.0000	
* 46 Acenaphthene-d10	164		7.777	7.777	(1.000)	706719	40.0000	
* 67 Phenanthrene-d10	188		9.384	9.384	(1.000)	1259974	40.0000	
* 91 Chrysene-d12	240		12.335	12.335	(1.000)	1081760	40.0000	
* 98 Perylene-d12	264		14.557	14.557	(1.000)	876186	40.0000	
209 Benzaldehyde	77		4.255	4.255	(0.915)	216227	40.0000	30.6
16 Acetophenone	105		5.030	5.030	(1.082)	352020	40.0000	36.8
189 Caprolactam	113		6.352	6.352	(1.074)	99198	40.0000	44.3
208 1,1'-Biphenyl	154		7.152	7.152	(0.920)	785712	40.0000	37.0
207 Atrazine	173		9.056	9.056	(0.965)	49759	40.0000	38.9
77 Benzidine	184		10.827	10.827	(0.878)	234136	40.0000	22.0
90 3,3'-Dichlorobenzidine	252		12.269	12.269	(0.995)	298667	40.0000	39.1
102 1,4-Dioxane	88		2.344	2.344	(0.504)	122234	40.0000	40.8
103 Methyl methacrylate	100		2.341	2.341	(0.504)	63561	40.0000	40.0
104 Ethyl methacrylate	69		2.833	2.833	(0.609)	262778	40.0000	39.8
105 2-Picoline	93		3.086	3.086	(0.664)	350193	40.0000	32.7
106 N-Nitrosomethylethylamine	88		3.154	3.154	(0.678)	142436	40.0000	34.0
107 Methyl methanesulfonate	80		3.381	3.381	(0.727)	165779	40.0000	38.3
108 N-Nitrosodiethylamine	102		3.702	3.702	(0.796)	146964	40.0000	36.2
109 Ethyl Methanesulfonate	79		3.939	3.939	(0.847)	232229	40.0000	43.5
110 Pentachloroethane	167		4.390	4.390	(0.944)	130878	40.0000	50.4
111 N-Nitrosopyrrolidine	100		5.014	5.014	(1.078)	155273	40.0000	39.8(Q)
113 N-Nitrosomorpholine	56		5.048	5.048	(1.085)	215099	40.0000	38.6
114 o-Toluidine	106		5.065	5.065	(1.089)	496331	40.0000	36.6
115 N-Nitrosopiperidine	114		5.353	5.353	(0.905)	161120	40.0000	37.7

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	=====	=====	=====	=====	=====	=====
116 a,a-Dimethylphenethylamine	58	5.720	5.720	(0.967)	464709	40.0000	17.9
118 2,6-Dichlorophenol	162	5.995	5.995	(1.013)	252801	40.0000	40.3
119 Hexachloropropene	213	6.021	6.021	(1.018)	177819	40.0000	57.1
120 p-Phenylenediamine	108	6.357	6.357	(1.075)	221085	40.0000	31.8
121 N-Nitrosodi-n-butylamine	84	6.324	6.324	(1.069)	238828	40.0000	37.5(Q)
122 Safrole	162	6.556	6.556	(1.108)	255124	40.0000	45.1
123 1,2,4,5-Tetrachlorobenzene	216	6.836	6.836	(0.879)	295069	40.0000	39.5
124 Isosafrole	162	7.109	7.109	(0.914)	288678	40.0000	48.1
125 1,4-Naphthoquinone	158	7.371	7.371	(0.948)	204280	40.0000	37.7
127 Pentachlorobenzene	250	7.950	7.950	(1.022)	258106	40.0000	40.1
128 1-Naphthylamine	143	8.080	8.080	(1.039)	610013	40.0000	38.0
129 2-Naphthylamine	143	8.166	8.166	(1.050)	616570	40.0000	35.6
131 5-Nitro-o-toluidine	152	8.375	8.375	(1.077)	189475	40.0000	38.4
136 1,3,5-Trinitrobenzene	75	8.781	8.781	(0.936)	191204	40.0000	50.4
137 Phenacetin	108	8.821	8.821	(0.940)	321724	40.0000	38.9(Q)
138 Diallate	86	8.783	8.783	(0.936)	256299	40.0000	33.8
212 Cis Diallate	86	8.880	8.880	(0.946)	53696	6.00000	6.7
213 Trans Diallate	86	8.783	8.783	(0.936)	256299	34.0000	28.8
140 4-Aminobiphenyl	169	9.170	9.170	(0.977)	562547	40.0000	33.3
141 Pentachloronitrobenzene	237	9.183	9.183	(0.979)	83061	40.0000	42.6(Q)
142 Pronamide	173	9.221	9.221	(0.983)	333957	40.0000	40.3
146 4-Nitroquinoline-1-oxide	101	10.243	10.243	(1.091)	14667	40.0000	19.8
147 Methapyrilene	58	10.304	10.304	(1.098)	491570	40.0000	40.4
148 Isodrin	193	10.523	10.523	(1.121)	117706	40.0000	38.8
149 Aramite	185	11.051	11.051	(1.178)	55282	40.0000	39.7
150 Kepone	272	11.675	11.675	(1.244)	72075	40.0000	37.1
151 p-(Dimethylamino)azobenzene	120	11.239	11.239	(0.911)	298427	40.0000	34.8
152 Chlorobenzilate	251	11.280	11.280	(0.914)	286860	40.0000	36.4
153 3,3'-Dimethylbenzidine	212	11.606	11.606	(0.941)	450138	40.0000	31.5
155 2-Acetylaminofluorene	181	11.915	11.915	(0.966)	357249	40.0000	40.4
157 7,12Dimethylbenz(a)anthracene	256	13.884	13.884	(0.954)	372946	40.0000	35.5
158 3-Methylcholanthrene	268	15.062	15.062	(1.035)	337531	40.0000	41.7(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/MSD6.i/5021610.b/s6b1609.d

Date: 16-FEB-2010 14:28

Client ID: APCVS

Sample Info: IABN100120-08.21CCV111SVH11APCVS

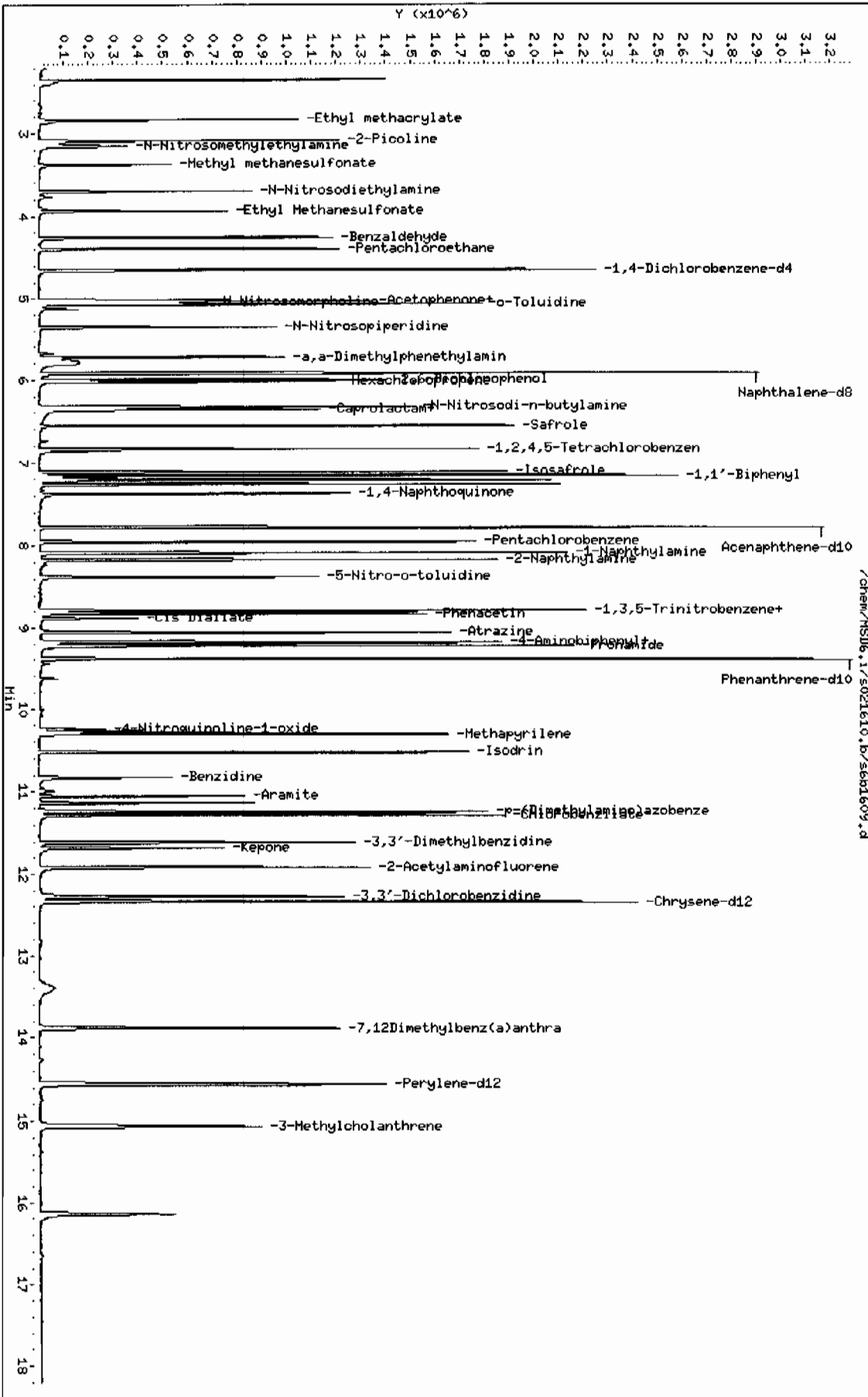
Column phase: J&W DB-5MS

Instrument: MSD6.i

Operator: nag1

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

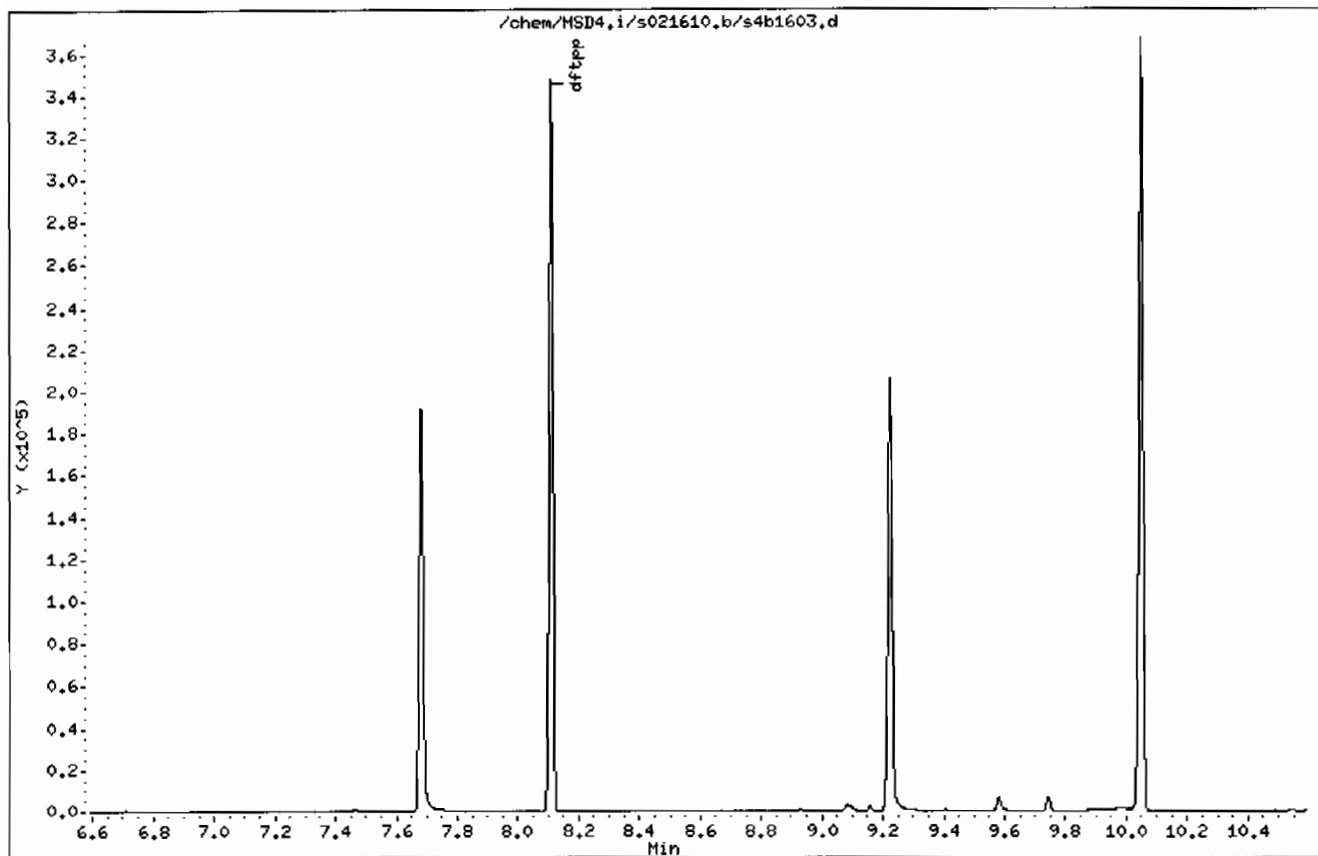
Instrument: MSD4.i

Sample Info: IWBH100207-01|DFTPP11|SVHF11|DFTPP

Operator: JHB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20



Date : 16-FEB-2010 09:30

Client ID: DFTPP

Instrument: HSD4.i

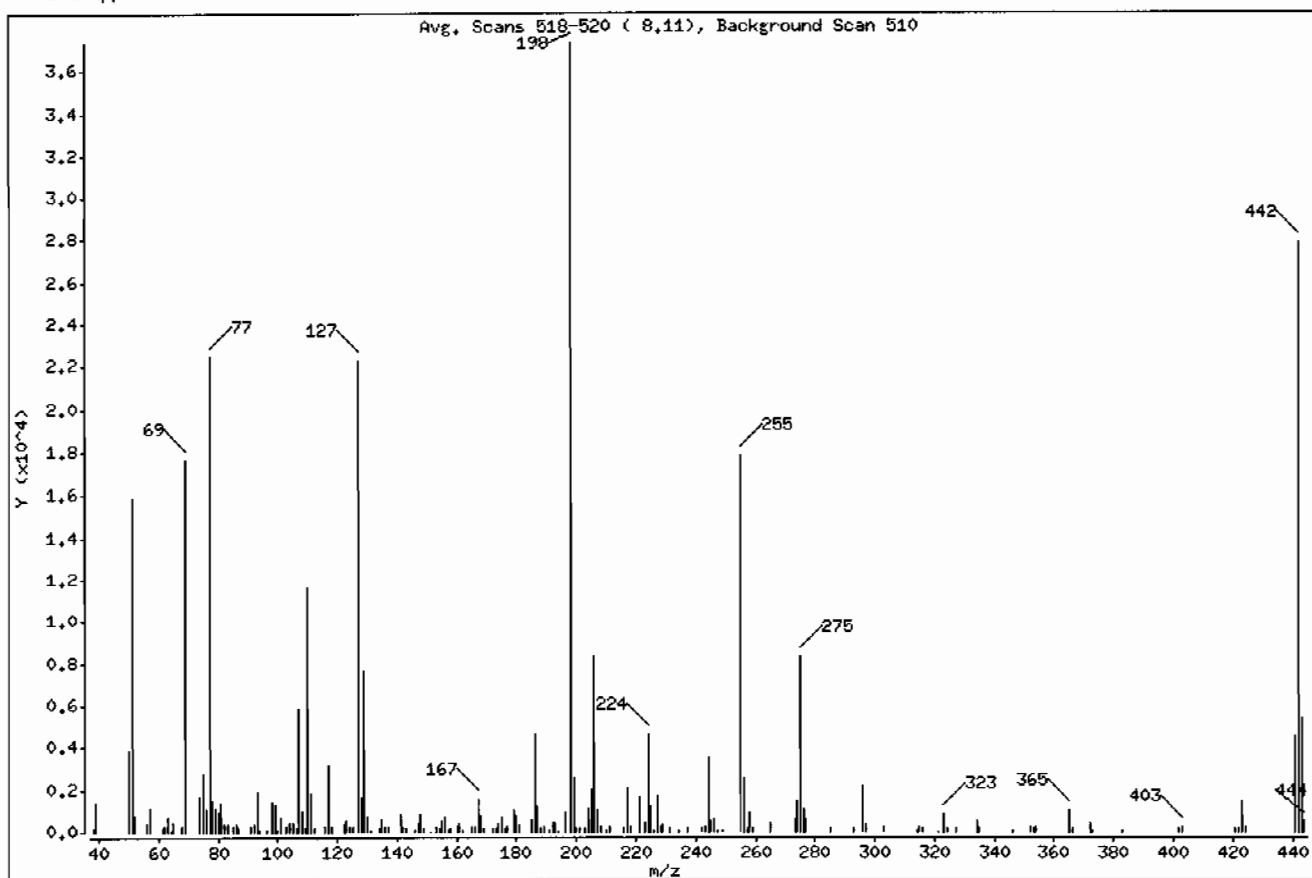
Sample Info: INBN100207-011DFTPP111SVMF111DFTPP

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: DFTTP

Instrument: MSD4.i

Sample Info: IWBNI00207-01|DFTTP11|SVHF11|DFTTP

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
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: IWBH100207-01IDFTPP11ISVMFI11IDFTPP

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
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	2548		

Data File: /chem/HSD4,i/s021710,b/s4b1702.d

Page 1

Date : 17-FEB-2010 17:07

Client ID: DFTPP

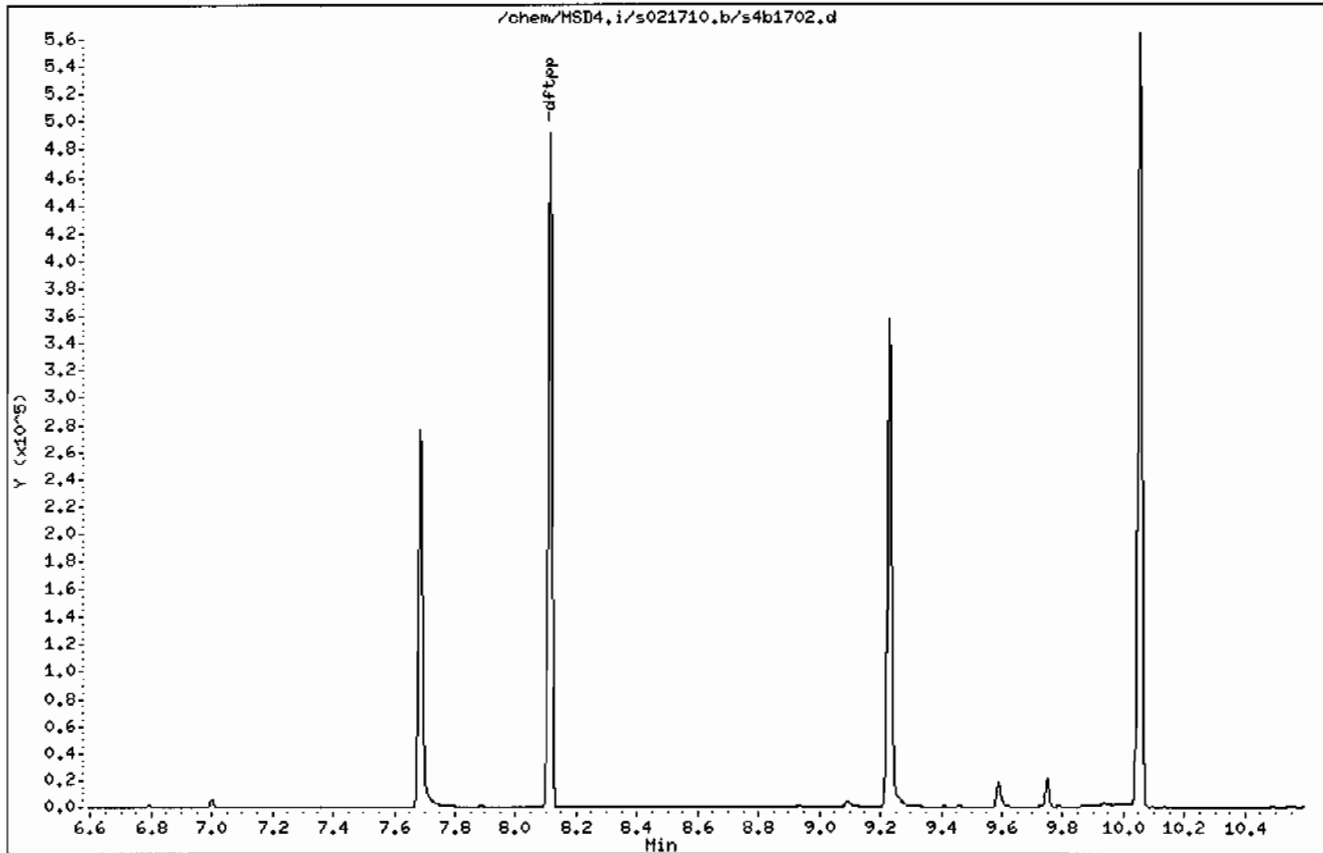
Instrument: HSD4.i

Sample Info: IWBNI00207-01IDFTPP11SVHF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20



Date : 17-FEB-2010 17:07

Client ID: DFTPP

Instrument: MSD4.i

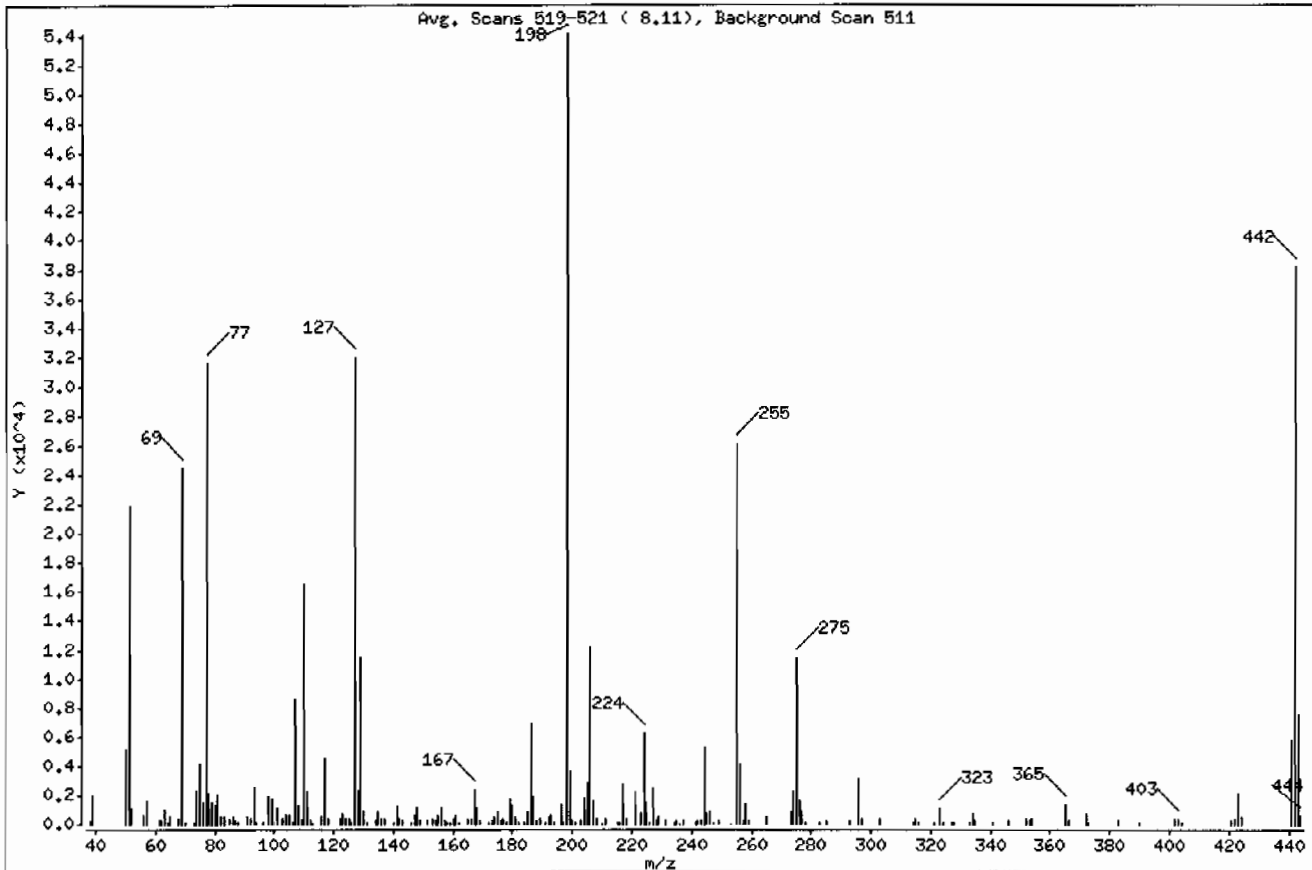
Sample Info: IWBH100207-01IDFTPP11SVMF11IDFTPP

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 443	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: MSD4.i

Sample Info: IWBNI00207-01IDFTPP11ISVMF11IDFTPP

Operator: JHB3

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	1851	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: MSD4.i

Sample Info: INBN100207-011DFTPP11SVMF111DFTPP

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

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/MSD6.i/s110909.b/s6k0911.d

Page 1

Date : 09-NOV-2009 18:00

Client ID: DFTPP

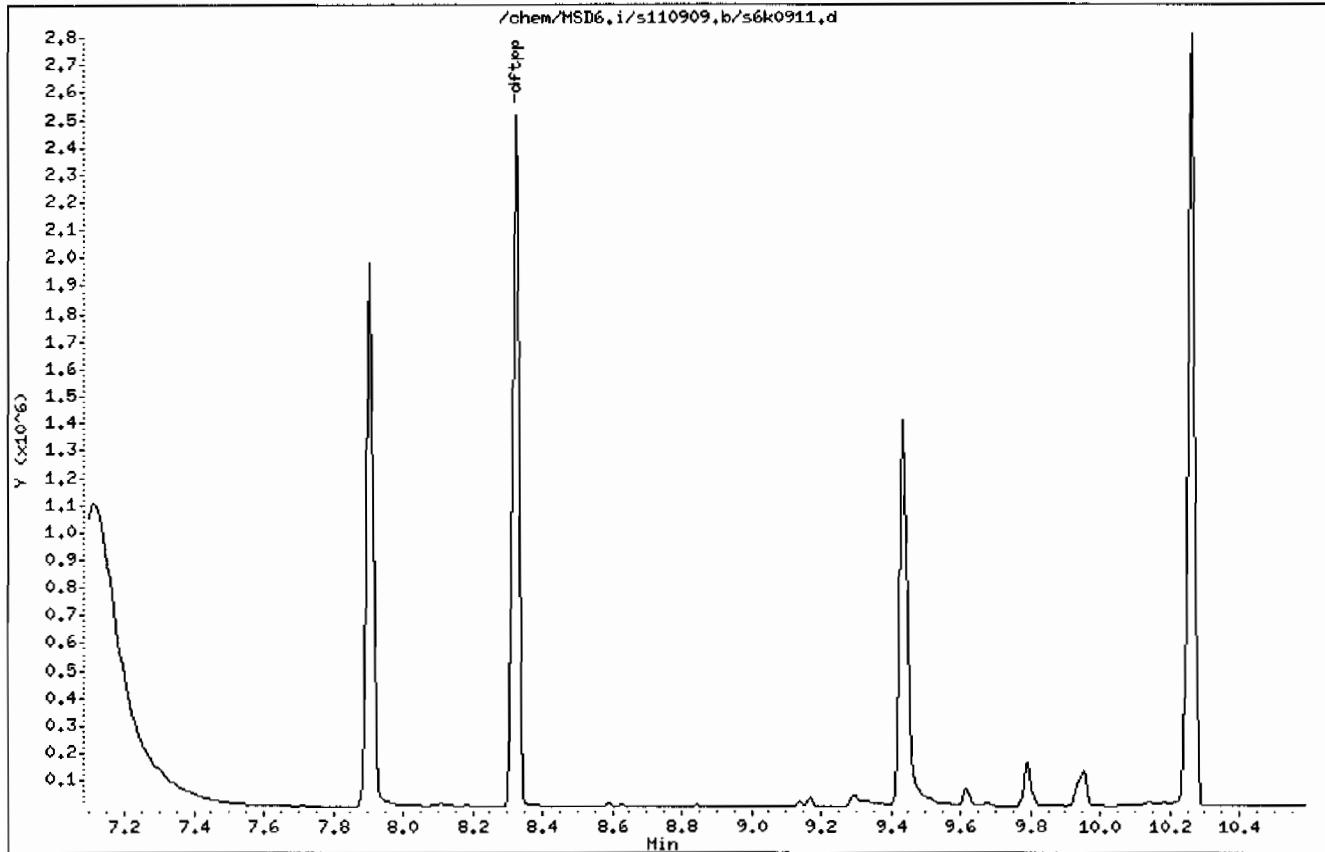
Instrument: MSD6.i

Sample Info: IWBNO91101-01150 PPH111SVMF111DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20



Date : 09-NOV-2009 18:00

Client ID: DFTPP

Instrument: MSD6.i

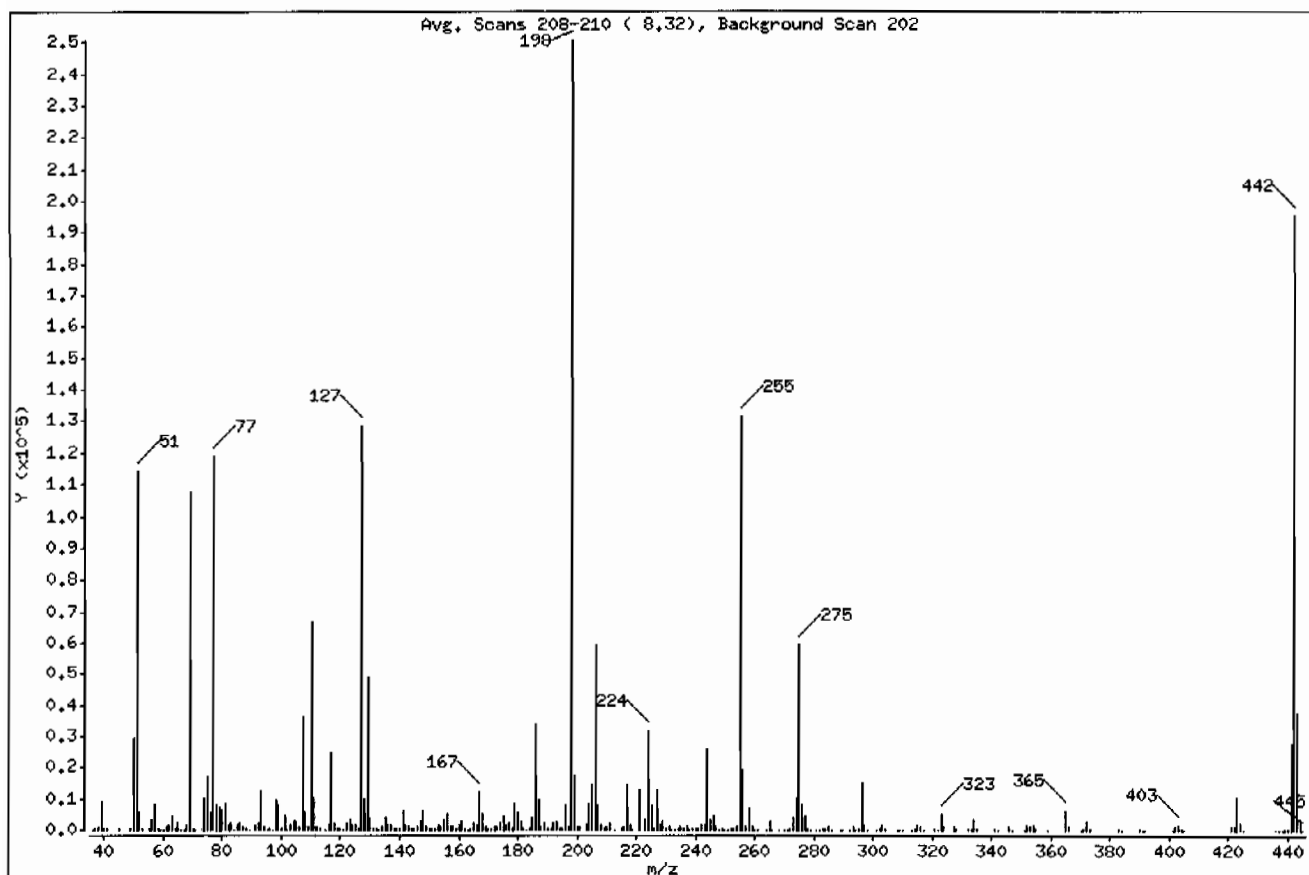
Sample Info: INBN091101-01150 PPH111SVHF111DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5HS

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	45.40
68	Less than 2.00% of mass 69	0.67 (1.56)
69	Mass 69 relative abundance	42.98
70	Less than 2.00% of mass 69	0.23 (0.53)
127	40.00 - 60.00% of mass 198	51.37
197	Less than 1.00% of mass 198	0.57
199	5.00 - 9.00% of mass 198	6.92
275	10.00 - 30.00% of mass 198	23.67
365	Greater than 1.00% of mass 198	2.45
441	Present, but less than mass 443	11.05
442	Greater than 40.00% of mass 198	77.94
443	17.00 - 23.00% of mass 442	14.94 (19.17)

Date : 09-NOV-2009 18:00

Client ID: DFTPP

Instrument: HSD6.i

Sample Info: IWBNO91101-01150 PPH11|SVHF11|DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s6k0911.d

Spectrum: Avg. Scans 208-210 (8.32), Background Scan 202

Location of Maximum: 198.00

Number of points: 303

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	8	122.00	2302	198.00	250752	284.00	336
37.00	393	123.00	3695	199.00	17344	285.00	937
38.00	1200	124.00	1621	200.00	1195	286.00	170
39.00	9016	125.00	1448	201.00	1207	289.00	255
40.00	406	126.00	632	203.00	1659	290.00	159
41.00	292	127.00	128832	204.00	8363	292.00	259
45.00	305	128.00	9787	205.00	14289	293.00	1083
49.00	640	129.00	49280	206.00	59576	294.00	255
50.00	29544	130.00	4085	207.00	7878	295.00	324
51.00	113864	131.00	795	208.00	1898	296.00	14712
52.00	5719	132.00	464	209.00	609	297.00	1998
53.00	291	133.00	153	210.00	1016	298.00	48
55.00	556	134.00	1412	211.00	2089	301.00	220
56.00	3212	135.00	3908	213.00	96	302.00	374
57.00	7977	136.00	1509	215.00	674	303.00	1716
58.00	306	137.00	2002	216.00	1188	304.00	518
59.00	43	138.00	459	217.00	14324	308.00	142
60.00	144	139.00	392	218.00	1841	309.00	104
61.00	1384	140.00	751	219.00	194	310.00	127
62.00	1579	141.00	6116	221.00	12869	313.00	98
63.00	4522	142.00	1931	223.00	3368	314.00	758
64.00	592	143.00	1380	224.00	31752	315.00	1571
65.00	2251	144.00	329	225.00	7987	316.00	915
66.00	47	145.00	339	226.00	839	317.00	119
67.00	98	146.00	1032	227.00	12952	321.00	481
68.00	1681	147.00	3100	228.00	1848	322.00	229
69.00	107792	148.00	6347	229.00	2774	323.00	5178
70.00	566	149.00	1410	230.00	478	324.00	998
71.00	154	150.00	411	231.00	1257	327.00	960
73.00	818	151.00	692	232.00	280	328.00	487
74.00	10556	152.00	489	233.00	226	332.00	397
75.00	17208	153.00	1814	234.00	759	333.00	430
76.00	5735	154.00	1411	235.00	1001	334.00	3299
77.00	118792	155.00	3187	236.00	589	335.00	849
78.00	8119	156.00	5061	237.00	1093	341.00	644

Date : 09-NOV-2009 18:00

Client ID: DFTTP

Instrument: MSD6.i

Sample Info: IWBNO91101-01/50 PPH11SVHF11DFTTP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s6k0911.d

Spectrum: Avg. Scans 208-210 (8.32), Background Scan 202

Location of Maximum: 198.00

Number of points: 303

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	7616	157.00	1047	238.00	176	342.00	184
80.00	6053	158.00	1005	239.00	483	346.00	1112
81.00	8741	159.00	819	240.00	449	347.00	197
82.00	1932	160.00	1690	241.00	776	351.00	99
83.00	2188	161.00	2737	242.00	1684	352.00	1491
84.00	232	162.00	809	243.00	1819	353.00	1169
85.00	1461	163.00	190	244.00	25832	354.00	1725
86.00	2130	164.00	335	245.00	3598	355.00	318
87.00	1162	165.00	2034	246.00	4786	359.00	103
88.00	449	166.00	1979	247.00	980	365.00	6134
89.00	268	167.00	12360	248.00	210	366.00	872
91.00	1835	168.00	5121	249.00	829	370.00	96
92.00	2163	169.00	1038	250.00	174	371.00	434
93.00	12786	170.00	446	251.00	238	372.00	2651
94.00	908	171.00	470	252.00	289	373.00	754
95.00	251	172.00	1064	253.00	569	383.00	711
96.00	626	173.00	1291	254.00	1047	384.00	258
97.00	236	174.00	2515	255.00	131328	390.00	402
98.00	9808	175.00	4789	256.00	18784	391.00	259
99.00	8032	176.00	1446	257.00	1424	392.00	153
100.00	745	177.00	2269	258.00	6873	401.00	116
101.00	4358	178.00	802	259.00	1148	402.00	1140
102.00	258	179.00	8475	260.00	228	403.00	1594
103.00	1616	180.00	5994	261.00	261	404.00	514
104.00	3096	181.00	2983	264.00	141	405.00	98
105.00	2795	182.00	429	265.00	2620	421.00	1430
106.00	910	183.00	259	266.00	251	422.00	1234
107.00	36184	184.00	679	268.00	180	423.00	10131
108.00	5604	185.00	3929	270.00	163	424.00	2144
109.00	997	186.00	34256	271.00	257	425.00	193
110.00	66656	187.00	9747	272.00	290	436.00	45
111.00	10177	188.00	1146	273.00	3906	437.00	191
112.00	1133	189.00	2105	274.00	10561	438.00	232
113.00	472	190.00	292	275.00	59368	439.00	301
115.00	217	191.00	815	276.00	7957	440.00	309

Date : 09-NOV-2009 18:00

Client ID: DFTPP

Instrument: MSD6,i

Sample Info: IWBNO91101-01150 PPH11SVHF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s6k0911,d

Spectrum: Avg. Scans 208-210 (8,32), Background Scan 202

Location of Maximum: 198.00

Number of points: 303

m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.00	1841	192.00	2423	277.00	4641	441.00	27712
117.00	25072	193.00	3008	278.00	676	442.00	195456
118.00	2060	194.00	699	279.00	175	443.00	37472
119.00	345	195.00	448	281.00	87	444.00	3400
120.00	476	196.00	7876	282.00	46	445.00	197
121.00	165	197.00	1433	283.00	505		

Data File: /chem/MSD6.i/s110909.b/s6k0921.d

Page 1

Date : 10-NOV-2009 11:07

Client ID: DFTPP

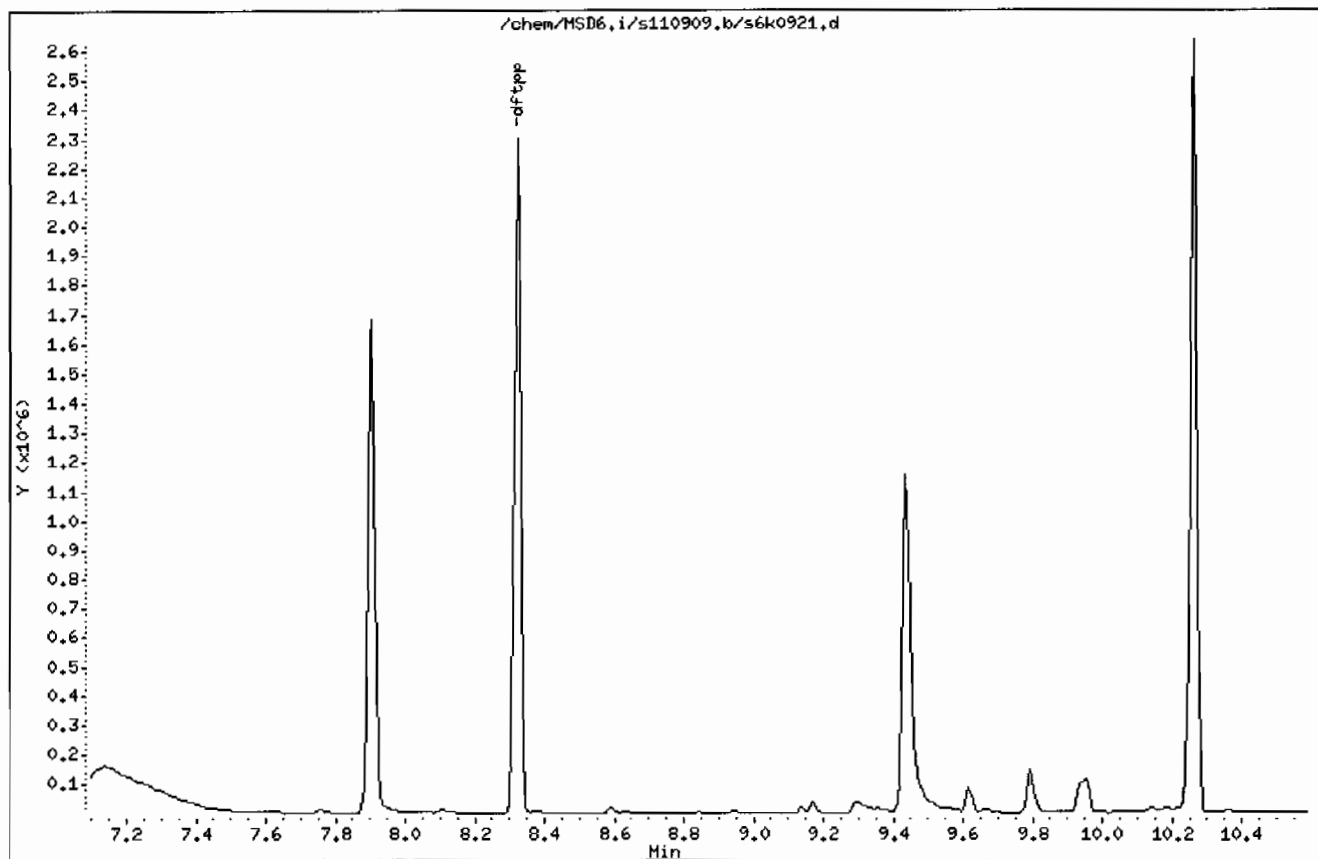
Instrument: MSD6.i

Sample Info: IWBNO91101-01150 PPH111SVHF111DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20



Date : 10-NOV-2009 11:07

Client ID: DFTPP

Instrument: HSD6.i

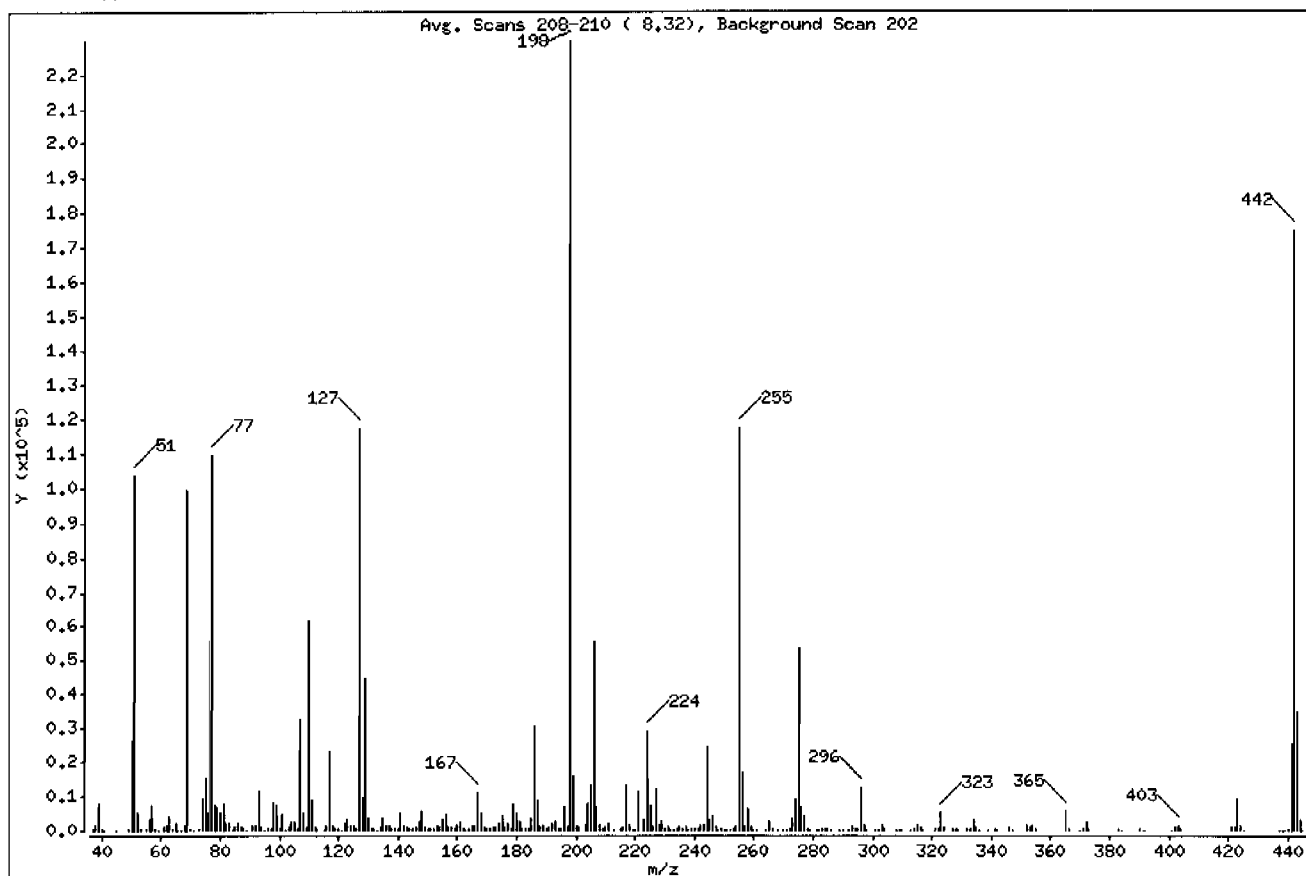
Sample Info: INBN091101-01150 PPH111SVHF111DFTPP

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	45.09
68	Less than 2.00% of mass 69	0.69 (1.59)
69	Mass 69 relative abundance	43.13
70	Less than 2.00% of mass 69	0.21 (0.50)
127	40.00 - 60.00% of mass 198	50.95
197	Less than 1.00% of mass 198	0.38
199	5.00 - 9.00% of mass 198	7.01
275	10.00 - 30.00% of mass 198	23.31
365	Greater than 1.00% of mass 198	2.61
441	Present, but less than mass 443	11.00
442	Greater than 40.00% of mass 198	76.04
443	17.00 - 23.00% of mass 442	15.14 (19.92)

Date : 10-NOV-2009 11:07

Client ID: DFTPP

Instrument: MSD6.i

Sample Info: IMBN091101-01150 PPH11SVHF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s6k0921.d

Spectrum: Avg. Scans 208-210 (8.32), Background Scan 202

Location of Maximum: 198.00

Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y

37.00	446	124.00	1597	200.00	1296	285.00	727
38.00	1364	125.00	1527	201.00	1130	286.00	93
39.00	8081	126.00	500	203.00	1398	289.00	109
40.00	429	127.00	117112	204.00	7870	290.00	48
41.00	123	128.00	9305	205.00	12990	292.00	179

45.00	232	129.00	44864	206.00	55704	293.00	996
49.00	676	130.00	3877	207.00	6919	294.00	284
50.00	26328	131.00	762	208.00	1589	295.00	295
51.00	103656	132.00	413	209.00	492	296.00	12743
52.00	5217	133.00	83	210.00	869	297.00	1758

53.00	281	134.00	1179	211.00	2059	298.00	106
55.00	508	135.00	3584	213.00	155	301.00	200
56.00	3141	136.00	1380	215.00	501	302.00	236
57.00	7300	137.00	1770	216.00	1098	303.00	1828
58.00	351	138.00	422	217.00	13179	304.00	578

59.00	89	139.00	313	218.00	1725	308.00	164
61.00	1282	140.00	577	219.00	178	309.00	120
62.00	1522	141.00	5319	220.00	48	310.00	179
63.00	4035	142.00	1826	221.00	11795	313.00	116
64.00	709	143.00	1268	223.00	3181	314.00	633

65.00	2010	144.00	322	224.00	29056	315.00	1462
66.00	201	145.00	315	225.00	7532	316.00	903
67.00	136	146.00	853	226.00	796	317.00	97
68.00	1576	147.00	2856	227.00	12169	321.00	535
69.00	99128	148.00	5895	228.00	1834	322.00	301

70.00	492	149.00	1137	229.00	2389	323.00	5031
71.00	87	150.00	371	230.00	448	324.00	932
73.00	640	151.00	713	231.00	1077	327.00	782
74.00	9704	152.00	430	232.00	217	328.00	460
75.00	15458	153.00	1634	233.00	234	329.00	92

76.00	5031	154.00	1294	234.00	764	332.00	329
77.00	109208	155.00	2977	235.00	895	333.00	541
78.00	7381	156.00	4520	236.00	588	334.00	3026
79.00	6803	157.00	931	237.00	934	335.00	912
80.00	5387	158.00	937	238.00	52	336.00	92

Date : 10-NOV-2009 11:07

Client ID: DFTPP

Instrument: HSD6.i

Sample Info: INBN091101-01150 PPH11SVHF11DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s6k0921.d

Spectrum: Avg, Scans 208-210 (8,32), Background Scan 202

Location of Maximum: 198.00

Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y

81.00	7979	159.00	792	239.00	457	339.00	88
82.00	2000	160.00	1501	240.00	364	341.00	550
83.00	1851	161.00	2637	241.00	638	342.00	176
84.00	203	162.00	756	242.00	1412	346.00	1020
85.00	1319	163.00	204	243.00	1572	347.00	119

86.00	1985	164.00	328	244.00	24152	352.00	1335
87.00	1000	165.00	1810	245.00	3200	353.00	950
88.00	412	166.00	1695	246.00	4314	354.00	1475
89.00	260	167.00	10891	247.00	844	355.00	296
91.00	1676	168.00	5136	248.00	166	365.00	5995

92.00	1806	169.00	973	249.00	748	366.00	747
93.00	11677	170.00	306	250.00	170	370.00	103
94.00	892	171.00	442	251.00	190	371.00	323
95.00	199	172.00	897	252.00	210	372.00	2543
96.00	636	173.00	1105	253.00	472	373.00	611

97.00	286	174.00	2178	254.00	899	383.00	675
98.00	8556	175.00	4297	255.00	117320	384.00	156
99.00	7312	176.00	1290	256.00	16728	390.00	314
100.00	595	177.00	2105	257.00	1320	391.00	189
101.00	4548	178.00	636	258.00	6484	392.00	157

102.00	251	179.00	8002	259.00	1064	401.00	199
103.00	1289	180.00	5191	260.00	200	402.00	1090
104.00	2626	181.00	2701	261.00	212	403.00	1396
105.00	2533	182.00	448	264.00	192	404.00	427
106.00	724	183.00	312	265.00	2469	421.00	1265

107.00	33008	184.00	599	266.00	401	422.00	1145
108.00	5264	185.00	3797	268.00	43	423.00	9473
109.00	994	186.00	30448	270.00	167	424.00	1846
110.00	61616	187.00	8914	271.00	186	425.00	183
111.00	9026	188.00	970	272.00	329	437.00	54

112.00	1057	189.00	1726	273.00	3492	438.00	170
113.00	367	190.00	298	274.00	9124	439.00	228
115.00	227	191.00	976	275.00	53576	440.00	294
116.00	1610	192.00	2282	276.00	7126	441.00	25272
117.00	23152	193.00	2536	277.00	3970	442.00	174784

Date : 10-NOV-2009 11:07

Client ID: DFTPP

Instrument: MSD6.i

Sample Info: INBN091101-01150 PPH11SVHF111DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s6k0921.d

Spectrum: Avg. Scans 208-210 (8.32), Background Scan 202

Location of Maximum: 198.00

Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	1681	194.00	518	278.00	653	443.00	34808
119.00	280	195.00	333	279.00	140	444.00	3177
120.00	427	196.00	6863	281.00	140	445.00	129
121.00	176	197.00	878	282.00	42		
122.00	2199	198.00	229824	283.00	507		
123.00	3315	199.00	16104	284.00	294		

Data File: /chem/MSD4.i/s021810a,b/s4b1819.d

Page 1

Date : 18-FEB-2010 17:28

Client ID: DFTPP

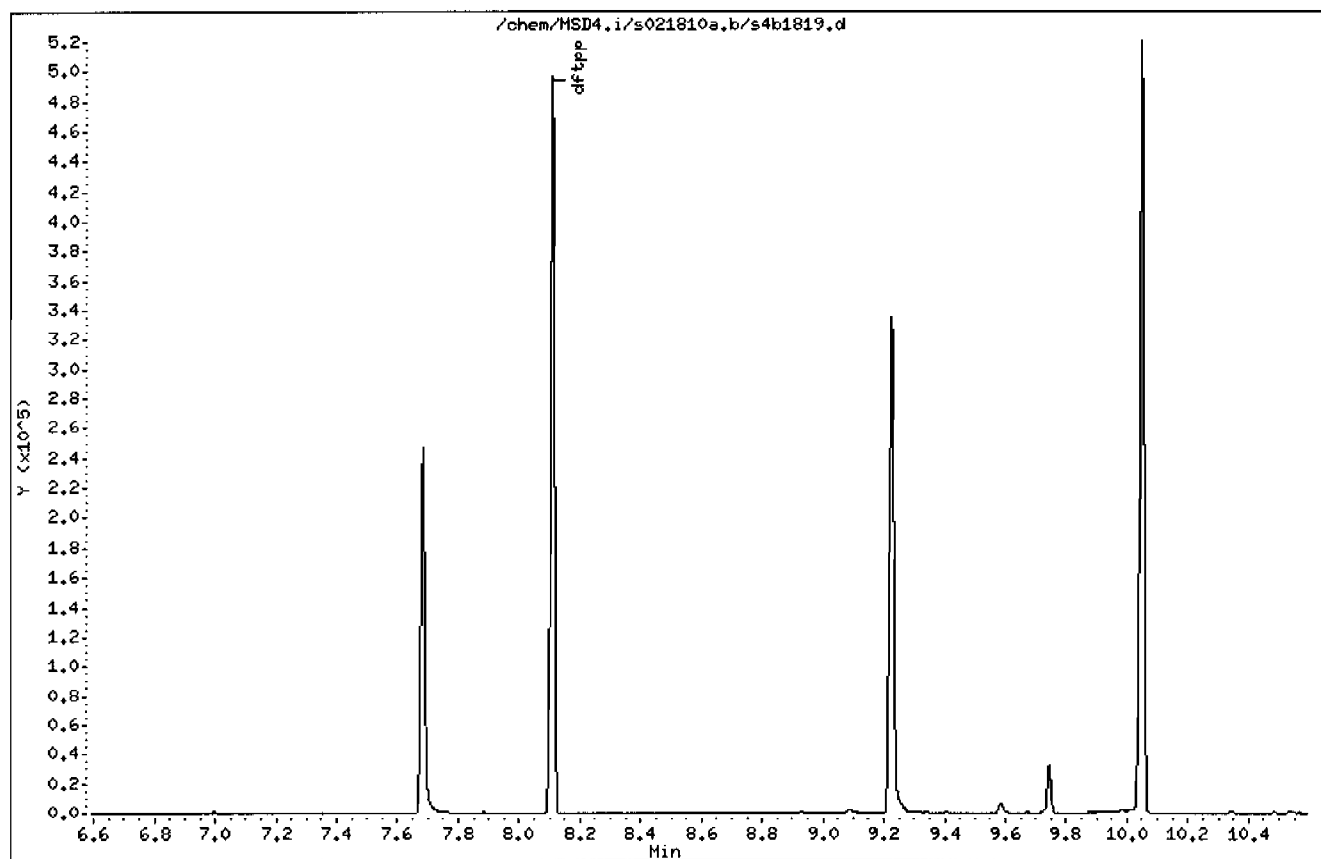
Instrument: MSD4.i

Sample Info: HWBN100207-011DFTPP11ISVMFI11DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20



Date : 18-FEB-2010 17:28

Client ID: DFTPP

Instrument: MSD4.i

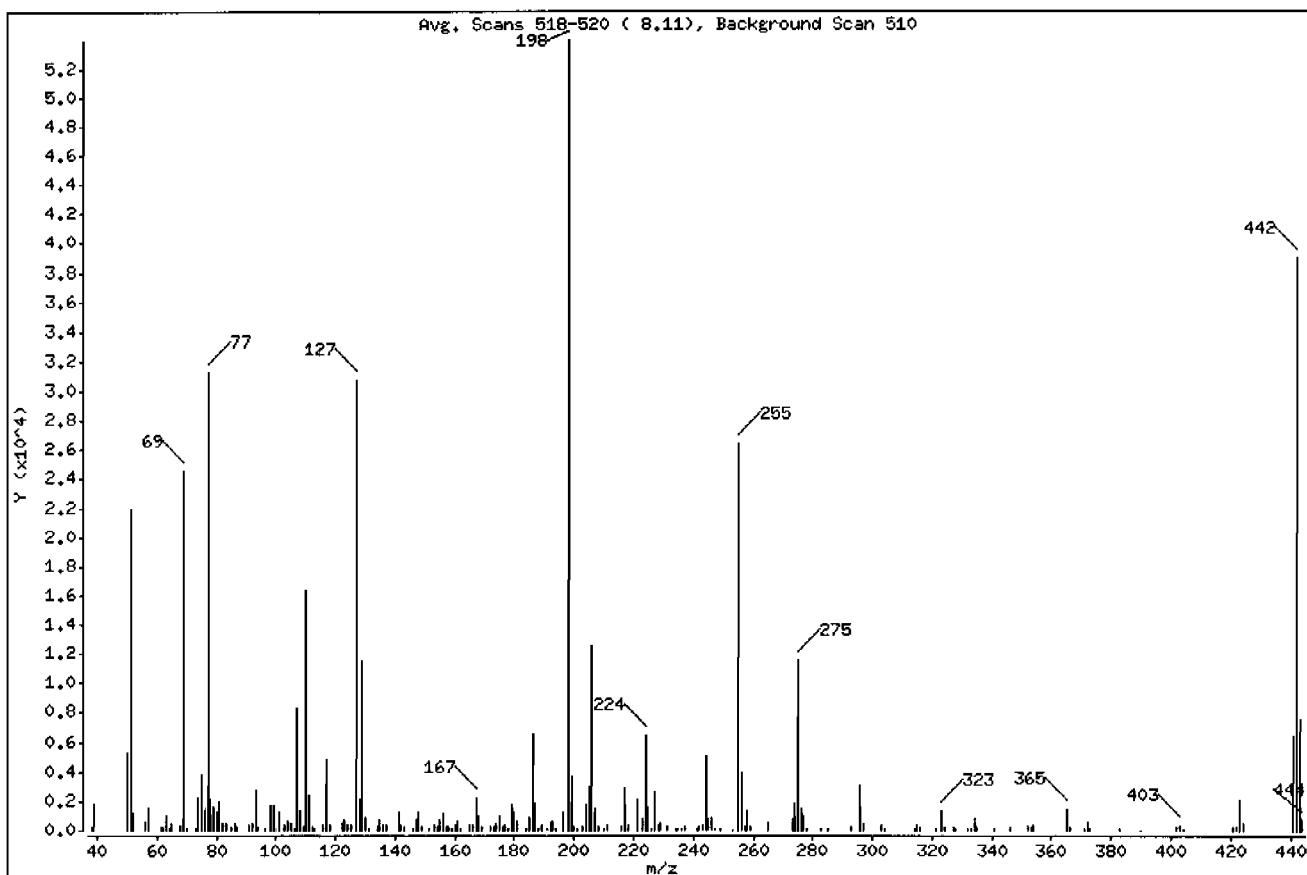
Sample Info: IWBNI00207-01IDFTPP11SVHF11IDFTPP

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	40.76
68	Less than 2.00% of mass 69	0.61 (1.34)
69	Mass 69 relative abundance	45.46
70	Less than 2.00% of mass 69	0.12 (0.27)
127	40.00 - 60.00% of mass 198	57.12
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.97
275	10.00 - 30.00% of mass 198	21.48
365	Greater than 1.00% of mass 198	2.75
441	Present, but less than mass 443	11.91
442	Greater than 40.00% of mass 198	72.21
443	17.00 - 23.00% of mass 442	14.10 (19.53)

Date : 18-FEB-2010 17:28

Client ID: DFTPP

Instrument: HSD4.i

Sample Info: IWBNI00207-011DFTPP11SVHF111DFTPP

Operator: JHB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s4b1819.d

Spectrum: Avg. Scans 518-520 (8,11), Background Scan 510

Location of Maximum: 198.00

Number of points: 200

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	238	118.00	320	188.00	173	274.00	1916
39.00	1882	122.00	439	189.00	364	275.00	11589
50.00	5277	123.00	690	191.00	149	276.00	1487
51.00	21992	124.00	345	192.00	521	277.00	950
52.00	1250	125.00	355	193.00	608	278.00	147
56.00	593	127.00	30808	194.00	186	283.00	87
57.00	1663	128.00	2152	196.00	1244	285.00	173
61.00	265	129.00	11475	198.00	53944	293.00	260
62.00	293	130.00	856	199.00	3760	296.00	3152
63.00	982	131.00	160	200.00	267	297.00	443
64.00	159	134.00	298	201.00	156	303.00	381
65.00	505	135.00	805	203.00	302	304.00	71
68.00	329	136.00	359	204.00	1698	314.00	183
69.00	24520	137.00	430	205.00	2990	315.00	381
70.00	67	141.00	1240	206.00	12527	316.00	216
73.00	153	142.00	372	207.00	1513	321.00	76
74.00	2241	143.00	268	208.00	274	323.00	1320
75.00	3891	146.00	179	210.00	95	324.00	201
76.00	1415	147.00	686	211.00	374	327.00	189
77.00	31224	148.00	1227	216.00	256	328.00	75
78.00	2134	149.00	239	217.00	2811	332.00	83
79.00	1552	151.00	145	218.00	366	333.00	122
80.00	1270	153.00	367	221.00	2133	334.00	848
81.00	2024	154.00	267	223.00	707	335.00	201
82.00	546	155.00	694	224.00	6394	341.00	133
83.00	519	156.00	1110	225.00	1664	346.00	242
85.00	308	157.00	215	226.00	178	352.00	373
86.00	498	158.00	196	227.00	2564	353.00	227
87.00	239	159.00	177	228.00	374	354.00	332
91.00	416	160.00	365	229.00	539	365.00	1482
92.00	443	161.00	584	231.00	232	366.00	209
93.00	2702	162.00	178	234.00	133	371.00	109
94.00	192	165.00	408	235.00	169	372.00	667
96.00	156	166.00	363	236.00	127	373.00	179
98.00	1762	167.00	2184	237.00	194	383.00	136

Date : 18-FEB-2010 17:28

Client ID: DFTPP

Instrument: HSD4.i

Sample Info: IWBNI00207-011DFTPP11ISVHF111DFTPP

Operator: JHB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s4b1819.d

Spectrum: Avg. Scans 518-520 (8.11), Background Scan 510

Location of Maximum: 198.00

Number of points: 200

m/z	Y	m/z	Y	m/z	Y	m/z	Y
99.00	1733	168.00	1051	241.00	150	390.00	36
100.00	79	169.00	201	242.00	290	402.00	236
101.00	1228	172.00	192	243.00	371	403.00	366
103.00	316	173.00	269	244.00	5098	404.00	132
104.00	589	174.00	516	245.00	719	421.00	292
105.00	549	175.00	1046	246.00	858	422.00	273
106.00	172	176.00	274	247.00	158	423.00	2165
107.00	8359	177.00	323	249.00	159	424.00	479
108.00	1412	178.00	129	253.00	37	441.00	6423
109.00	222	179.00	1716	255.00	26408	442.00	38952
110.00	16408	180.00	1233	256.00	3962	443.00	7607
111.00	2380	181.00	656	257.00	253	444.00	724
112.00	251	184.00	118	258.00	1361		
113.00	74	185.00	853	259.00	212		
116.00	425	186.00	6589	265.00	540		
117.00	4805	187.00	1875	273.00	795		

Data File: /chem/HSD6.i/s021610.b/s6b1607.d

Page 1

Date : 16-FEB-2010 13:45

Client ID: DFTPP

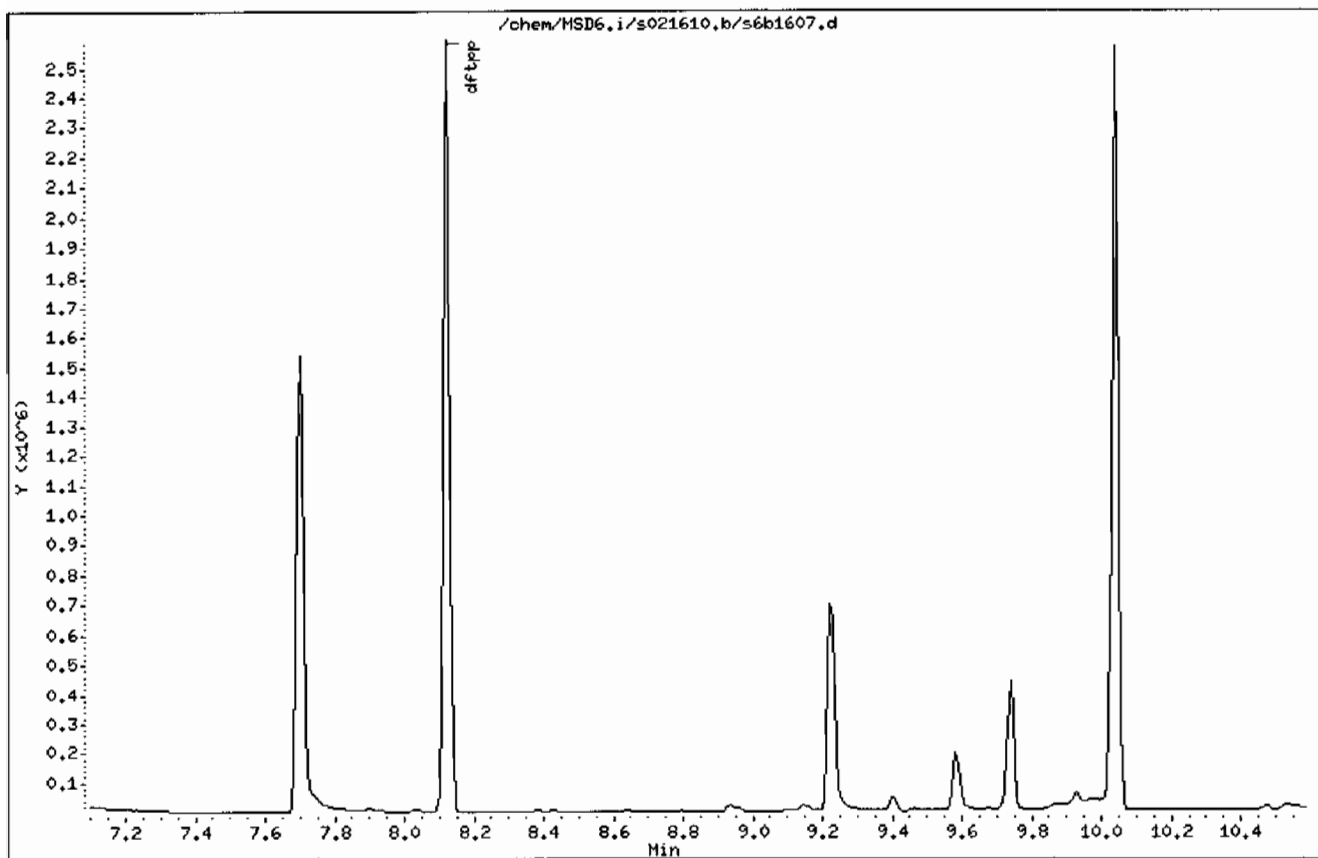
Instrument: HSD6.i

Sample Info: IWBNI00107-01IDFTPP11ISVMF11IDFTPP

Operator: nag1

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20



Date : 16-FEB-2010 13:45

Client ID: DFTPP

Instrument: MSD6.i

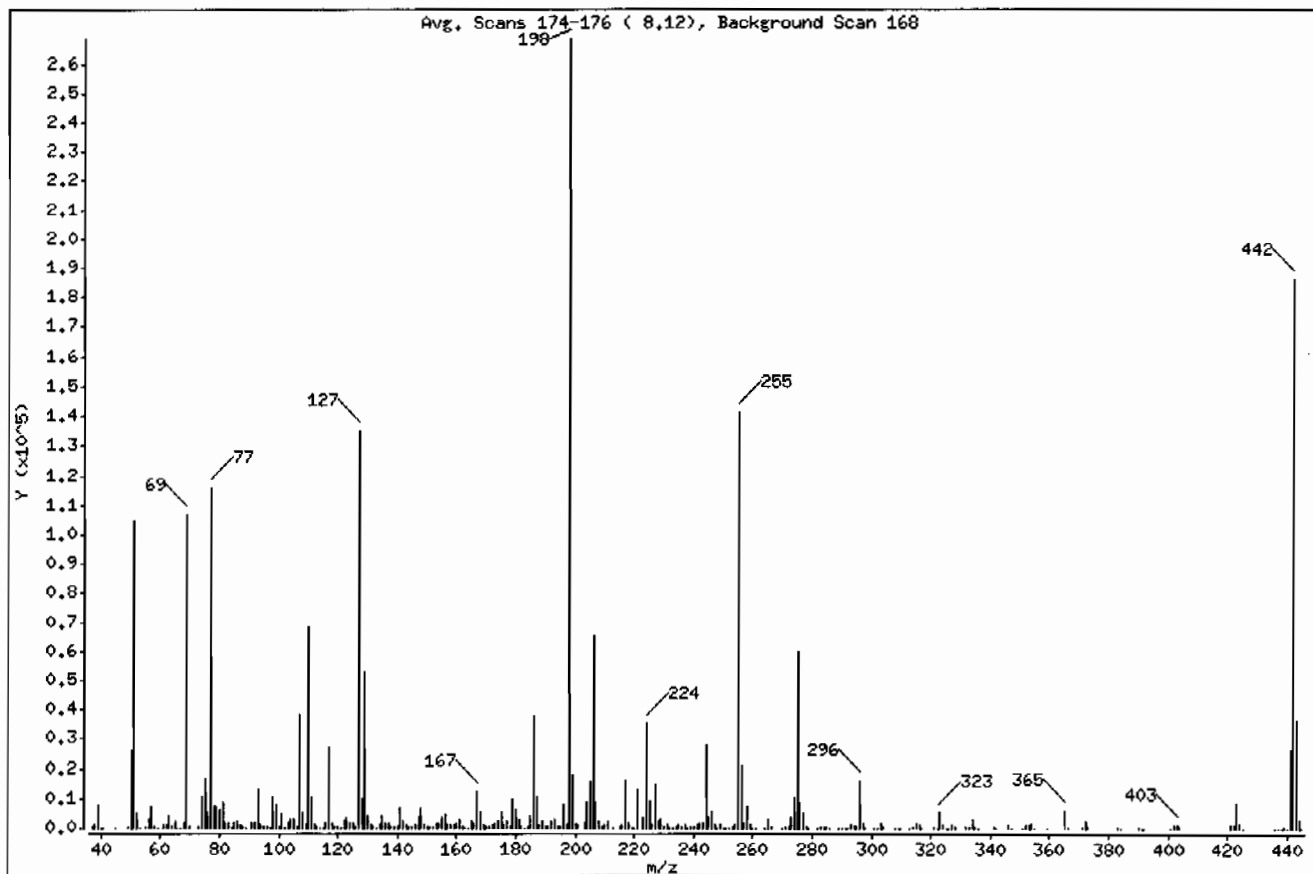
Sample Info: INBN100107-01DFTPP11SVHF11DFTPP

Operator: nag1

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	39.16
68	Less than 2.00% of mass 69	0.60 (1.51)
69	Mass 69 relative abundance	39.66
70	Less than 2.00% of mass 69	0.22 (0.56)
127	40.00 - 60.00% of mass 198	50.25
197	Less than 1.00% of mass 198	0.57
199	5.00 - 9.00% of mass 198	6.74
275	10.00 - 30.00% of mass 198	22.24
365	Greater than 1.00% of mass 198	2.36
441	Present, but less than mass 443	9.98
442	Greater than 40.00% of mass 198	69.34
443	17.00 - 23.00% of mass 442	13.48 (19.43)

Date : 16-FEB-2010 13:45

Client ID: DFTPP

Instrument: HSD6.i

Sample Info: INBN100107-011DFTPP11SVHF111DFTPP

Operator: nag1

Column phase: Phenomenex ZB-5HS

Column diameter: 0.20

Data File: s6b1607.d

Spectrum: Avg. Scans 174-176 (8.12), Background Scan 168

Location of Maximum: 198.00

Number of points: 302

m/z	Y	m/z	Y	m/z	Y	m/z	Y

37.00	455	124.00	1778	200.00	1343	289.00	196
38.00	1362	125.00	1697	201.00	1349	290.00	186
39.00	7817	126.00	494	203.00	1777	291.00	42
40.00	282	127.00	134912	204.00	8801	292.00	223
41.00	177	128.00	10144	205.00	15213	293.00	1103

45.00	221	129.00	52968	206.00	65568	294.00	315
49.00	717	130.00	4525	207.00	8551	295.00	329
50.00	25792	131.00	960	208.00	2161	296.00	15957
51.00	105128	132.00	439	209.00	707	297.00	2031
52.00	5187	133.00	215	210.00	999	298.00	48

53.00	284	134.00	1458	211.00	2384	301.00	165
55.00	566	135.00	4132	213.00	199	302.00	302
56.00	3293	136.00	1719	215.00	730	303.00	1659
57.00	7613	137.00	1963	216.00	1223	304.00	495
58.00	386	138.00	422	217.00	16289	308.00	208

59.00	45	139.00	380	218.00	2033	309.00	43
61.00	1182	140.00	621	219.00	179	310.00	244
62.00	1542	141.00	6635	220.00	279	313.00	176
63.00	4133	142.00	2306	221.00	12857	314.00	767
64.00	530	143.00	1408	223.00	3583	315.00	1680

65.00	2188	144.00	442	224.00	35352	316.00	969
66.00	177	145.00	347	225.00	9126	317.00	168
67.00	187	146.00	1096	226.00	941	321.00	416
68.00	1603	147.00	3607	227.00	14837	322.00	270
69.00	106456	148.00	6948	228.00	2213	323.00	5287

70.00	596	149.00	1451	229.00	3166	324.00	943
73.00	753	150.00	402	230.00	449	325.00	42
74.00	10341	151.00	896	231.00	1252	326.00	46
75.00	16680	152.00	611	232.00	209	327.00	969
76.00	5591	153.00	2146	233.00	218	328.00	505

77.00	116000	154.00	1653	234.00	823	332.00	336
78.00	7685	155.00	3688	235.00	1088	333.00	474
79.00	7645	156.00	5180	236.00	680	334.00	3162
80.00	6201	157.00	1085	237.00	1186	335.00	898
81.00	8762	158.00	1063	238.00	141	336.00	93

Date : 16-FEB-2010 13:45

Client ID: DFTPP

Instrument: MSD6.i

Sample Info: HWBN100107-011DFTPP111SVHF111DFTPP

Operator: nag1

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s6b1607.d

Spectrum: Avg, Scans 174-176 (8,12), Background Scan 168

Location of Maximum: 198.00

Number of points: 302

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	2111	159.00	984	239.00	642	341.00	565
83.00	2009	160.00	1909	240.00	422	342.00	114
84.00	254	161.00	3079	241.00	929	346.00	941
85.00	1667	162.00	870	242.00	1776	347.00	205
86.00	2214	163.00	220	243.00	1694	351.00	142
87.00	1085	164.00	261	244.00	27648	352.00	1512
88.00	390	165.00	2232	245.00	3688	353.00	989
89.00	216	166.00	1878	246.00	5310	354.00	1650
91.00	1948	167.00	12478	247.00	1014	355.00	269
92.00	2088	168.00	5799	248.00	250	359.00	102
93.00	13025	169.00	1176	249.00	1076	365.00	6342
94.00	953	170.00	506	250.00	168	366.00	828
95.00	315	171.00	547	251.00	249	371.00	377
96.00	610	172.00	1154	252.00	268	372.00	2723
97.00	245	173.00	1616	253.00	519	373.00	675
98.00	10218	174.00	2563	254.00	1067	383.00	650
99.00	8266	175.00	5281	255.00	141568	384.00	158
100.00	719	176.00	1536	256.00	21088	390.00	345
101.00	4759	177.00	2301	257.00	1568	391.00	225
102.00	261	178.00	831	258.00	7687	392.00	103
103.00	1595	179.00	9796	259.00	1225	401.00	50
104.00	2957	180.00	6475	260.00	190	402.00	941
105.00	2974	181.00	3185	261.00	271	403.00	1460
106.00	897	182.00	430	264.00	69	404.00	461
107.00	38232	183.00	235	265.00	2874	421.00	1177
108.00	5680	184.00	689	266.00	445	422.00	1024
109.00	1133	185.00	4475	270.00	218	423.00	8900
110.00	68664	186.00	37720	271.00	338	424.00	1870
111.00	10646	187.00	10319	272.00	400	425.00	215
112.00	1146	188.00	1115	273.00	3925	436.00	41
113.00	363	189.00	2224	274.00	10667	437.00	281
114.00	43	190.00	351	275.00	59696	438.00	248
115.00	213	191.00	910	276.00	8362	439.00	523
116.00	1976	192.00	2762	277.00	4910	440.00	72
117.00	27312	193.00	3217	278.00	738	441.00	26784

Date : 16-FEB-2010 13:45

Client ID: DFTPP

Instrument: MSD6.i

Sample Info: IWBH100107-01IDFTPP11SVHF11IDFTPP

Operator: nag1

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s6b1607.d

Spectrum: Avg. Scans 174-176 (8.12), Background Scan 168

Location of Maximum: 198.00

Number of points: 302

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	2013	194.00	768	279.00	172	442.00	186112
119.00	328	195.00	469	282.00	170	443.00	36176
120.00	488	196.00	7835	283.00	583	444.00	3150
121.00	89	197.00	1518	284.00	424	445.00	201
122.00	2608	198.00	268416	285.00	886		
123.00	3898	199.00	18088	286.00	194		

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

SDG Number: 10-1567
Lab Sample ID: 1202036798

Client Sample: QC for batch 950443
Client ID: MB for batch 950443
Batch ID: 950447
Run Date: 02/16/2010 14:55
Prep Date: 02/09/2010 11:07
Data File: s6b1610-1.d

Client: LANI.010
Method: SW846 8270C
Inst: MSD6.I
Analyst: NAG1
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	U	333	ug/kg	66.7	333
	3-Nitroaniline					

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

SDG Number: 10-1567	Matrix: SOIL
Lab Sample ID: 1202036798	
Client Sample: QC for batch 950443	Client: LANL010
Client ID: MB for batch 950443	Method: SW846 8270C
Batch ID: 950447	Inst: MSD6.I
Run Date: 02/16/2010 14:55	Analyst: NAG1
Prep Date: 02/09/2010 11:07	Aliquot: 30 g
Data File: s6b1610-1.d	Column: J&W DB-5MS
	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
	<i>m</i> -Nitroaniline					
131-11-3	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	3.27	240	ug/kg		JA

GEL Laboratories LLC

Data file : /chem/MSD6.i/s021610.b/s6b1610-1.d
 Lab Smp Id: 1202036798 Client Smp ID: SBLK01
 Inj Date : 16-FEB-2010 14:55
 Operator : nagl Inst ID: MSD6.i
 Smp Info : |1202036798|950447|1|SVM|1|SBLK01
 Misc Info : |MSD8270_S|WBN100205-01
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
 Meth Date : 16-Feb-2010 16:28 llo00884 Quant Type: 1STD
 Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
 Als bottle: 4 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1567.sub
 Target Version: 3.50
 Processing Host: hpc1p1

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			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	4.650	4.650 (1.000)	296752	40.0000	
* 29 Naphthalene-d8	136	5.914	5.917 (1.000)	1116908	40.0000	
* 46 Acenaphthene-d10	164	7.774	7.779 (1.000)	636723	40.0000	
* 67 Phenanthrene-d10	188	9.379	9.382 (1.000)	1097786	40.0000	
* 91 Chrysene-d12	240	12.330	12.338 (1.000)	872751	40.0000	
* 98 Perylene-d12	264	14.555	14.557 (1.000)	697482	40.0000	
\$ 3 2-Fluorophenol	112	3.514	3.496 (0.756)	425945	57.3174	1910
\$ 5 Phenol-d5	99	4.276	4.273 (0.919)	549300	58.5647	1950
\$ 20 Nitrobenzene-d5	82	5.180	5.185 (0.876)	212437	26.8875	896
\$ 39 2-Fluorobiphenyl	172	7.038	7.040 (0.905)	451062	27.4889	916
\$ 60 2,4,6-Tribromophenol	329	8.623	8.625 (1.109)	115005	61.8832	2060
\$ 81 p-Terphenyl-d14	244	11.087	11.087 (0.899)	585442	41.5957	1390

Data File: /chem/MSD6.i/s021610.b/s6b1610-1.d
Report Date: 16-Feb-2010 16:32

Page 1

GEL Laboratories LLC

Data file : /chem/MSD6.i/s021610.b/s6b1610-1.d
Lab Smp Id: 1202036798 Client Smp ID: SBLK01
Inj Date : 16-FEB-2010 14:55
Operator : nag1 Inst ID: MSD6.i
Smp Info : |1202036798|950447|1|SVM|1|SBLK01
Misc Info : |MSD8270_S|WBN100205-01
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
Meth Date : 16-Feb-2010 16:28 llo00884 Quant Type: ISTD
Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.sub
Target Version: 3.50
Processing Host: hpc1p1

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

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	4.650	1780120	40.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate				CAS #:			
3.272	320284	7.19690160	240	0		0	10

Data File: /chem/HSD6.i/s021610.b/seb1610-1.d

Date: 16-FEB-2010 14:55

Client ID: SBLK01

Sample Info: 11202036798196044711SWH11SBLK01

Volume Injected (uL): 0.5

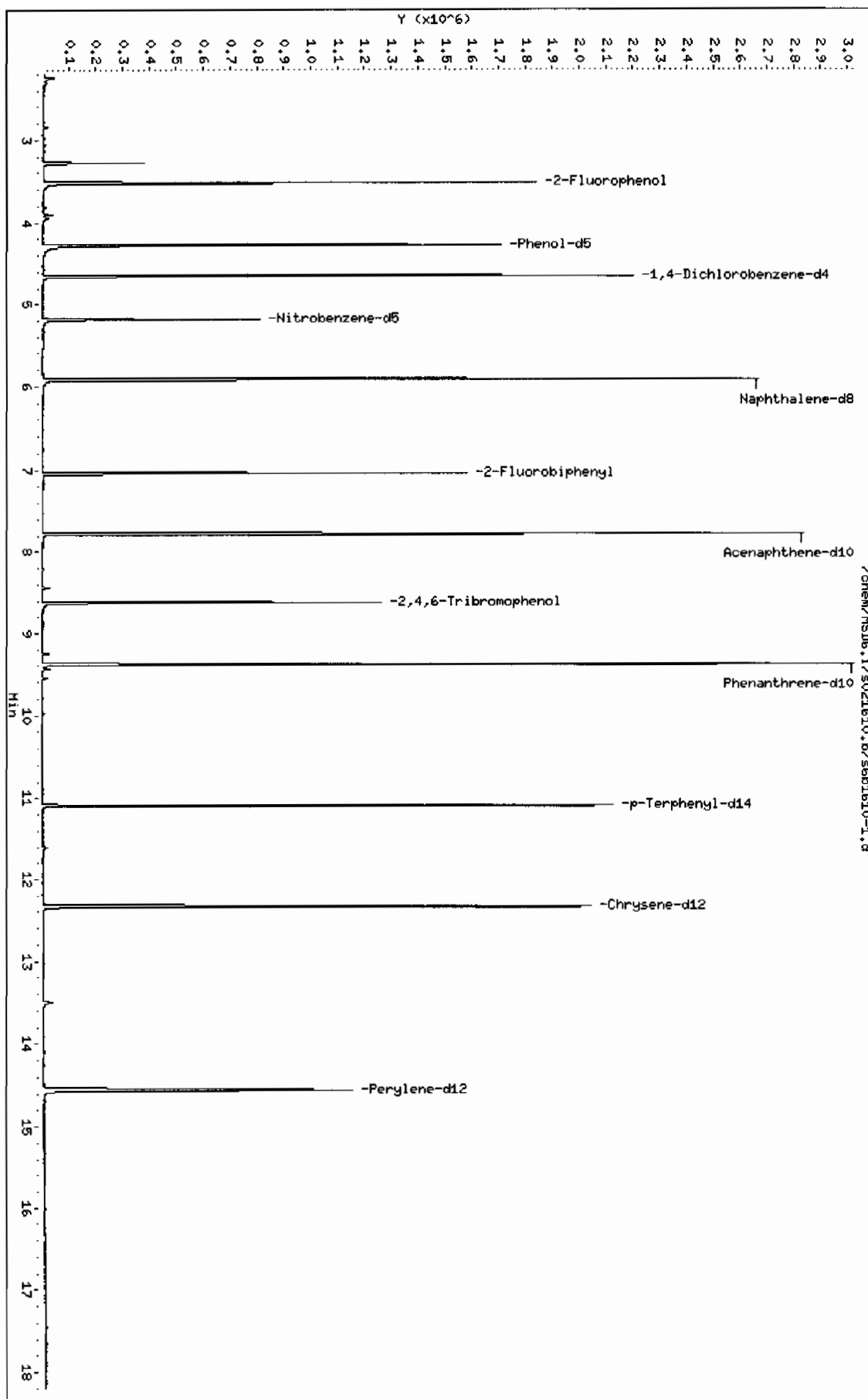
Column phase: J&W DB-5MS

Instrument: HSD6.i

Operator: nag1

Column diameter: 0.20

Page 1



Date : 16-FEB-2010 14:55

Client ID: SBLK01

Instrument: MSD6.i

Sample Info: I12020367981950447111SVH111SBLK01

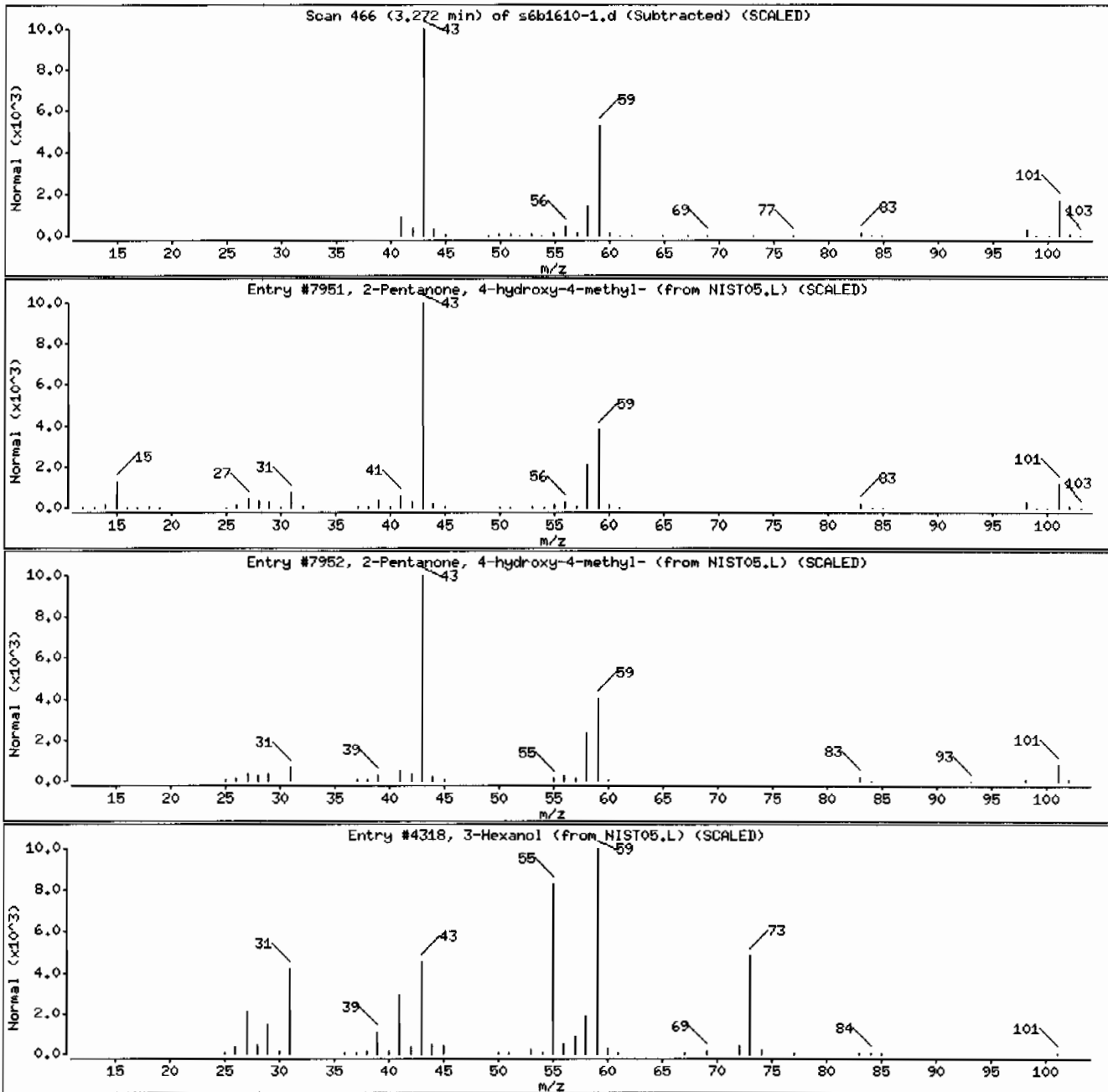
Volume Injected (uL): 0.5

Operator: nag1

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	45	C6H12O2	116
3-Hexanol	623-37-0	NIST05.L	4318	33	C6H14O	102



Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1567		Matrix: SOIL	
Lab Sample ID: 1202046006			
Client Sample: QC for batch 954449	Client: LANL010	Project: QC	
Client ID: MB for batch 954449	Method: SW846 8270C	SOP Ref: GL-OA-E-009	
Batch ID: 954451	Inst: MSD4.1	Dilution: 1	
Run Date: 02/18/2010 18:52	Analyst: JMB3	Inj. Vol: .5 uL	
Prep Date: 02/18/2010 13:52	Aliquot: 30 g	Final Volume: 1 mL	
Data File: s4b1823-1.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	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	o-Nitroaniline					
	3-Nitroaniline	U	333	ug/kg	66.7	333

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

SDG Number: 10-1567	Matrix: SOIL
Lab Sample ID: 1202046006	
Client Sample: QC for batch 954449	Client: LANL010
Client ID: MB for batch 954449	Method: SW846 8270C
Batch ID: 954451	Inst: MSD4.I
Run Date: 02/18/2010 18:52	Analyst: JMB3
Prep Date: 02/18/2010 13:52	Aliquot: 30 g
Data File: s4b1823-1.d	Column: J&W DB-5MS
	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
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	2.96	595	ug/kg		J

Data File: /chem/MSD4.i/s021810a.b/s4b1823-1.d
Report Date: 19-Feb-2010 09:54

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Data file : /chem/MSD4.i/s021810a.b/s4b1823-1.d
Lab Smp Id: 1202046006 Client Smp ID: SBLK02
Inj Date : 18-FEB-2010 18:52
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |1202046006|954451|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/s021810a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 19-Feb-2010 09:39 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.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				CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.930	3.936	(1.000)	123065	40.0000
* 29 Naphthalene-d8	136	4.802	4.807	(1.000)	478195	40.0000
* 46 Acenaphthene-d10	164	6.059	6.064	(1.000)	245170	40.0000
* 67 Phenanthrene-d10	188	7.048	7.054	(1.000)	387467	40.0000
* 91 Chrysene-d12	240	8.749	8.776	(1.000)	357355	40.0000
* 98 Perylene-d12	264	10.295	10.322	(1.000)	323821	40.0000
\$ 3 2-Fluorophenol	112	3.117	3.117	(0.793)	184489	1750
\$ 5 Phenol-d5	99	3.641	3.647	(0.926)	244129	1850
\$ 20 Nitrobenzene-d5	82	4.294	4.305	(0.894)	82983	753
\$ 39 2-Fluorobiphenyl	172	5.545	5.551	(0.915)	174998	921
\$ 60 2,4,6-Tribromophenol	329	6.594	6.599	(1.088)	47682	2070
\$ 81 p-Terphenyl-d14	244	7.974	7.984	(0.911)	206706	1230

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Data file : /chem/MSD4.i/s021810a.b/s4b1823-1.d
Lab Smp Id: 1202046006 Client Smp ID: SBLK02
Inj Date : 18-FEB-2010 18:52
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |1202046006|954451|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/s021810a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 19-Feb-2010 09:39 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.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

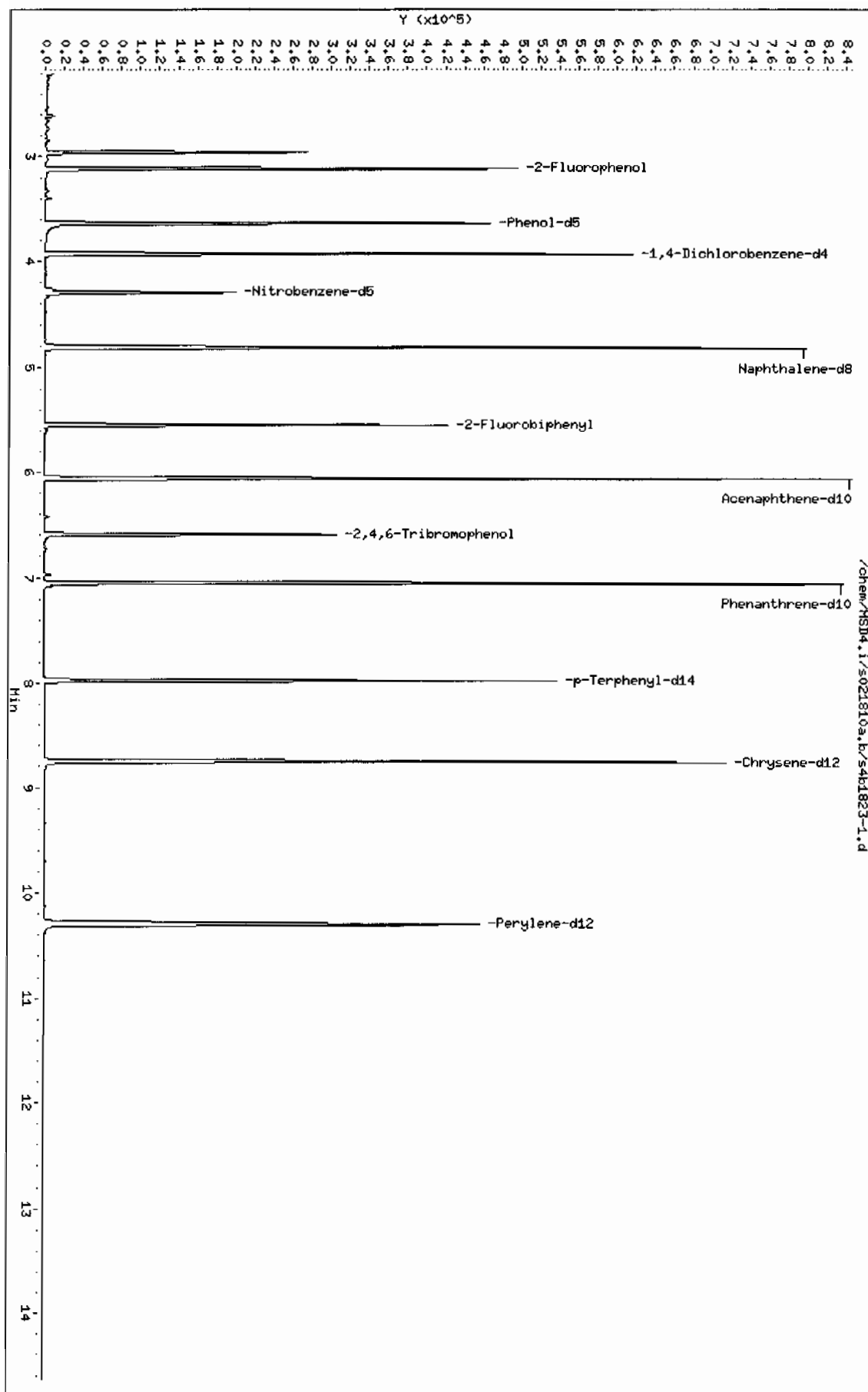
Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.930	679404	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate				CAS #:			
2.957	303392	17.8622307	595	0		0	10

Data File: /chem/MSD4.i/s021810a.b/s4b1823-1.d
 Date : 18-FEB-2010 18:52
 Client ID: SBLK02
 Sample Info: 11202046006195445111SVW111MB
 Volume Injected (uL): 0.5
 Column phase: J&W DB-SMS

Instrument: MSD4.i
 Operator: JMB3
 Column diameter: 0.20



Date : 18-FEB-2010 18:52

Client ID: SBLK02

Instrument: HSD4.i

Sample Info: I1202046006195445111SVMI11MB

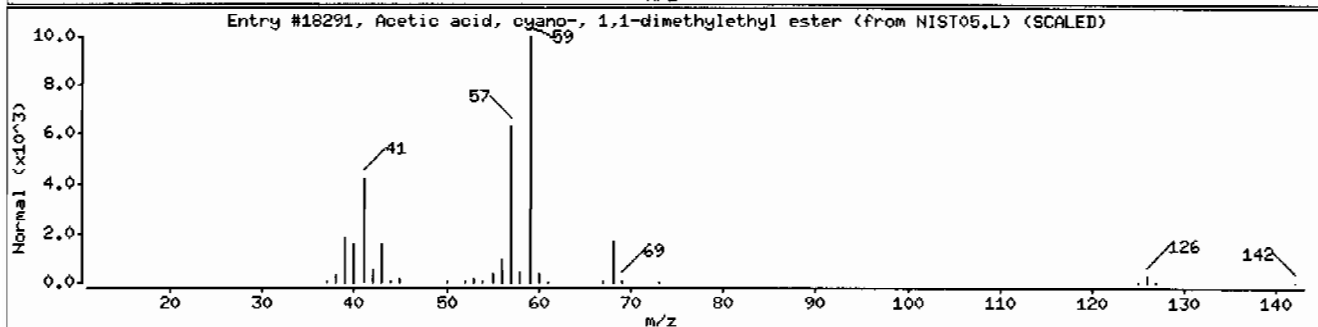
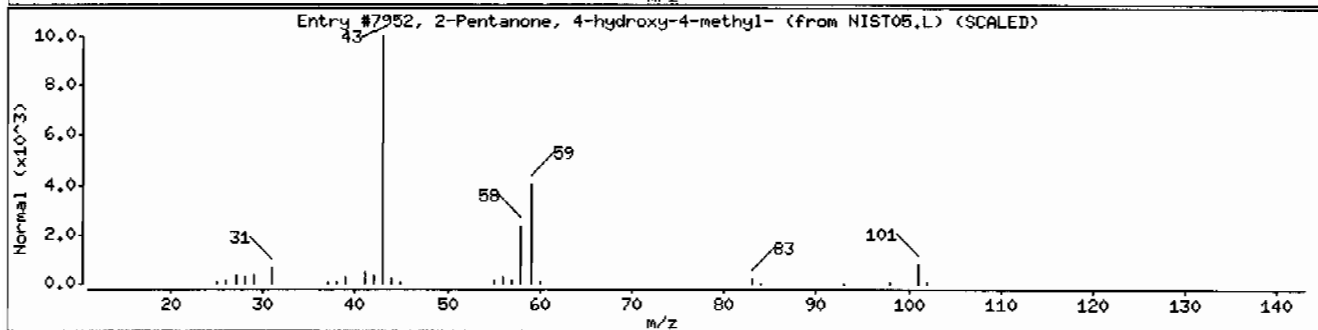
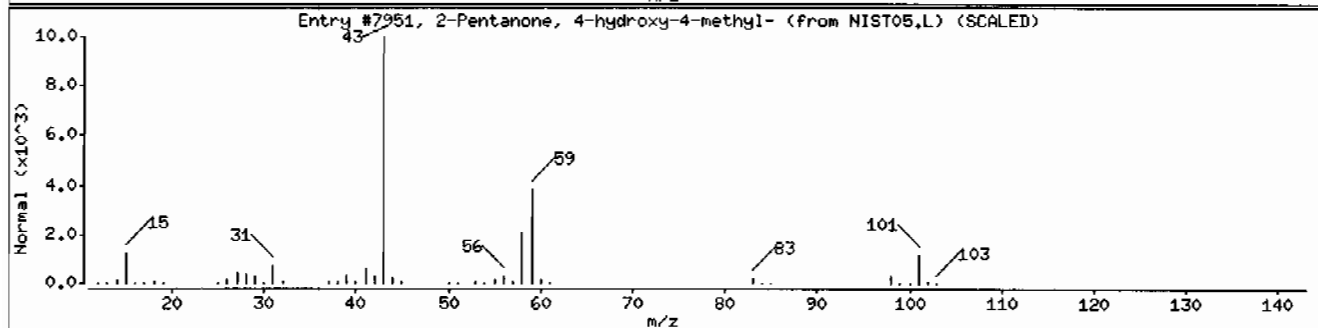
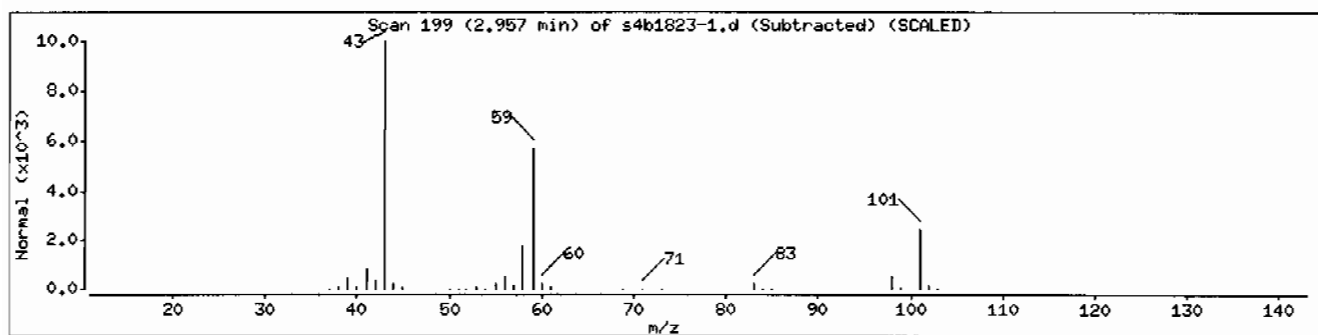
Volume Injected (uL): 0.5

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: 10-1567		Matrix: SOIL	
Lab Sample ID: 1202036801			
Client Sample: QC for batch 950443	Client: LANL010	Project: QC	
Client ID: LCS for batch 950443	Method: SW846 8270C	SOP Ref: GL-OA-E-009	
Batch ID: 950447	Inst: MSD6.J	Dilution: 1	
Run Date: 02/16/2010 15:23	Analyst: NAG1	Inj. Vol: .5 uL	
Prep Date: 02/09/2010 11:07	Aliquot: 30 g	Final Volume: 1 mL	
Data File: s6b1611-1.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		853	ug/kg	66.7	333
108-95-2	Phenol		1120	ug/kg	66.7	333
95-57-8	2-Chlorophenol		1130	ug/kg	66.7	333
106-46-7	1,4-Dichlorobenzene		1070	ug/kg	66.7	333
621-64-7	N-Nitrosodipropylamine		1160	ug/kg	66.7	333
59-50-7	4-Chloro-3-methylphenol		1340	ug/kg	66.7	333
83-32-9	Acenaphthene		1130	ug/kg	11.0	33.3
121-14-2	2,4-Dinitrotoluene		1270	ug/kg	33.3	333
100-02-7	4-Nitrophenol		951	ug/kg	110	333
87-86-5	Pentachlorophenol		1150	ug/kg	83.3	333
129-00-0	Pyrene		1210	ug/kg	10.0	33.3
110-86-1	Pyridine		957	ug/kg	66.7	333
62-53-3	Aniline		982	ug/kg	100	333
111-44-4	bis(2-Chloroethyl) ether		976	ug/kg	66.7	333
541-73-1	1,3-Dichlorobenzene		1060	ug/kg	66.7	333
100-51-6	Benzyl alcohol		666	ug/kg	100	333
95-50-1	1,2-Dichlorobenzene		1120	ug/kg	66.7	333
108-60-1	bis(2-Chloroisopropyl)ether		1070	ug/kg	66.7	333
95-48-7	o-Cresol		1130	ug/kg	66.7	333
65794-96-9	m,p-Cresols		1250	ug/kg	100	333
67-72-1	Hexachloroethane		1070	ug/kg	66.7	333
98-95-3	Nitrobenzene		1120	ug/kg	66.7	333
78-59-1	Isophorone		1200	ug/kg	66.7	333
88-75-5	2-Nitrophenol		1250	ug/kg	66.7	333
105-67-9	2,4-Dimethylphenol		1080	ug/kg	117	333
111-91-1	bis(2-Chloroethoxy)methane		1120	ug/kg	66.7	333
120-83-2	2,4-Dichlorophenol		1290	ug/kg	66.7	333
65-85-0	Benzoic acid		3100	ug/kg	167	667
91-20-3	Naphthalene		1080	ug/kg	10.0	33.3
106-47-8	4-Chloroaniline		944	ug/kg	66.7	333
87-68-3	Hexachlorobutadiene		1330	ug/kg	66.7	333
91-57-6	2-Methylnaphthalene		1290	ug/kg	6.67	33.3
77-47-4	Hexachlorocyclopentadiene		743	ug/kg	66.7	333
88-06-2	2,4,6-Trichlorophenol		1230	ug/kg	66.7	333
95-95-4	2,4,5-Trichlorophenol		1270	ug/kg	66.7	333
91-58-7	2-Chloronaphthalene		1240	ug/kg	11.0	33.3
88-74-4	2-Nitroaniline		1120	ug/kg	66.7	333
	o-Nitroaniline					
99-09-2	3-Nitroaniline		1000	ug/kg	66.7	333

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

SDG Number: 10-1567		Matrix: SOIL
Lab Sample ID: 1202036801		
Client Sample: QC for batch 950443	Client: LANL010	Project: QC
Client ID: LCS for batch 950443	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 950447	Inst: MSD6.I	Dilution: 1
Run Date: 02/16/2010 15:23	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/09/2010 11:07	Aliquot: 30 g	Final Volume: 1 mL
Data File: s6b1611-1.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		1260	ug/kg	66.7	333
606-20-2	2,6-Dinitrotoluene		1190	ug/kg	33.3	333
208-96-8	Acenaphthylene		1210	ug/kg	10.0	33.3
51-28-5	2,4-Dinitrophenol		1280	ug/kg	127	667
132-64-9	Dibenzofuran		1210	ug/kg	66.7	333
84-66-2	Diethylphthalate		1310	ug/kg	66.7	333
86-73-7	Fluorene		1260	ug/kg	10.0	33.3
7005-72-3	4-Chlorophenylphenylether		1260	ug/kg	66.7	333
534-52-1	2-Methyl-4,6-dinitrophenol		1260	ug/kg	66.7	333
100-01-6	4-Nitroaniline		1030	ug/kg	100	333
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine		1200	ug/kg	66.7	333
122-66-7	Azobenzene		1210	ug/kg	66.7	333
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether		1240	ug/kg	66.7	333
118-74-1	Hexachlorobenzene		1320	ug/kg	66.7	333
85-01-8	Phenanthrene		1250	ug/kg	10.0	33.3
120-12-7	Anthracene		1260	ug/kg	6.67	33.3
84-74-2	Di-n-butylphthalate		1360	ug/kg	66.7	333
206-44-0	Fluoranthene		1350	ug/kg	10.0	33.3
85-68-7	Butylbenzylphthalate		1350	ug/kg	66.7	333
56-55-3	Benzo(a)anthracene		1270	ug/kg	10.0	33.3
91-94-1	3,3'-Dichlorobenzidine		943	ug/kg	100	333
218-01-9	Chrysene		1280	ug/kg	10.0	33.3
117-81-7	bis(2-Ethylhexyl)phthalate		1410	ug/kg	66.7	333
117-84-0	Di-n-octylphthalate		1460	ug/kg	66.7	333
205-99-2	Benzo(b)fluoranthene		1380	ug/kg	10.0	33.3
207-08-9	Benzo(k)fluoranthene		1390	ug/kg	10.0	33.3
50-32-8	Benzo(a)pyrene		1430	ug/kg	10.0	33.3
193-39-5	Indeno(1,2,3-cd)pyrene		1280	ug/kg	10.0	33.3
53-70-3	Dibenzo(a,h)anthracene		1270	ug/kg	10.0	33.3
191-24-2	Benzo(ghi)perylene		1300	ug/kg	10.0	33.3
120-82-1	1,2,4-Trichlorobenzene		1260	ug/kg	66.7	333

Data File: /chem/MSD6.i/s021610.b/s6b1611-1.d
 Report Date: 16-Feb-2010 16:30

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Data file : /chem/MSD6.i/s021610.b/s6b1611-1.d
 Lab Smp Id: 1202036801 Client Smp ID: SBLK01LCS
 Inj Date : 16-FEB-2010 15:23
 Operator : nag1 Inst ID: MSD6.i
 Smp Info : |1202036801|950447|1|SVM|1|SBLK01LCS
 Misc Info : |MSD8270_S|WBN100205-01
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
 Meth Date : 16-Feb-2010 16:28 llo00884 Quant Type: ISTD
 Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
 Als bottle: 5 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1567.sub
 Target Version: 3.50
 Processing Host: hpclp1

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				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN	FINAL
						(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	4.648	4.650	(1.000)	310119	40.0000	
* 29 Naphthalene-d8	136	5.917	5.917	(1.000)	1197163	40.0000	
* 46 Acenaphthene-d10	164	7.779	7.779	(1.000)	677121	40.0000	
* 67 Phenanthrene-d10	188	9.385	9.382	(1.000)	1200897	40.0000	
* 91 Chrysene-d12	240	12.338	12.338	(1.000)	991382	40.0000	
* 98 Perylene-d12	264	14.562	14.557	(1.000)	807768	40.0000	
\$ 3 2-Fluorophenol	112	3.514	3.496	(0.756)	477923	61.5398	2050
\$ 5 Phenol-d5	99	4.281	4.273	(0.921)	616257	62.8715	2100
\$ 20 Nitrobenzene-d5	82	5.183	5.185	(0.876)	279351	32.9864	1100
\$ 39 2-Fluorobiphenyl	172	7.043	7.040	(0.905)	561461	32.1755	1070
\$ 60 2,4,6-Tribromophenol	329	8.630	8.625	(1.109)	149745	75.7691	2520
\$ 81 p-Terphenyl-d14	244	11.087	11.087	(0.899)	653210	40.8571	1360

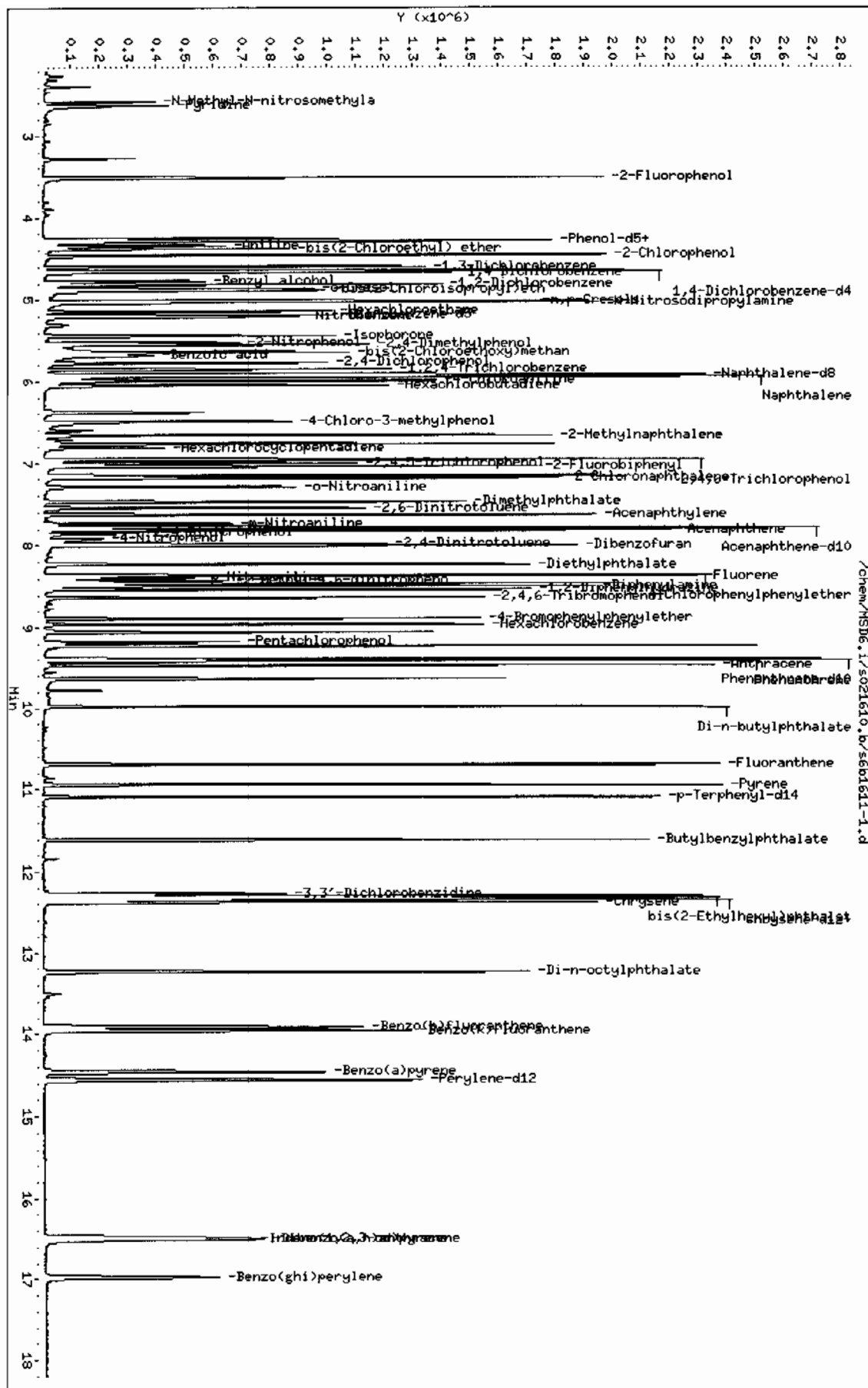
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/ul)	FINAL (ug/Kg)
6 Phenol	94	4.293	4.286	(0.924)	330897	33.5747	1120 (Q)
8 2-Chlorophenol	128	4.457	4.454	(0.959)	268072	33.8625	1130
11 1,4-Dichlorobenzene	146	4.666	4.666	(1.004)	297077	32.1561	1070
17 N-Nitrosodipropylamine	70	5.022	5.022	(1.081)	190623	34.6955	1160 (Q)
28 1,2,4-Trichlorobenzene	180	5.850	5.850	(0.989)	274822	37.8478	1260
33 4-Chloro-3-methylphenol	107	6.487	6.477	(1.096)	240370	40.2441	1340
47 Acenaphthene	154	7.812	7.815	(1.004)	516727	33.8598	1130
50 2,4-Dinitrotoluene	165	7.978	7.978	(1.026)	198772	38.0474	1270
52 4-Nitrophenol	139	7.914	7.907	(1.017)	72427	28.5212	951
65 Pentachlorophenol	266	9.176	9.171	(0.978)	87031	34.4638	1150
79 Pyrene	202	10.941	10.942	(0.887)	990390	36.3204	1210
2 Pyridine	79	2.622	2.579	(0.564)	188567	28.6959	956
4 Aniline	66	4.342	4.344	(0.934)	120435	29.4473	982
7 bis(2-Chloroethyl) ether	63	4.380	4.383	(0.942)	195407	29.2796	976
9 1,3-Dichlorobenzene	146	4.597	4.599	(0.989)	289637	31.7807	1060
12 Benzyl alcohol	108	4.770	4.765	(1.026)	98312	19.9894	666
13 1,2-Dichlorobenzene	146	4.808	4.811	(1.035)	288641	33.4707	1120
14 bis(2-Chloroisopropyl) ether	45	4.882	4.887	(1.050)	476778	31.9989	1070
15 o-Cresol	107	4.864	4.854	(1.047)	219460	34.0474	1130
18 m,p-Cresols	107	5.007	5.010	(1.077)	307445	37.6428	1250
19 Hexachloroethane	117	5.137	5.139	(1.105)	114568	32.0551	1070
21 Nitrobenzene	77	5.203	5.206	(0.879)	285893	33.4946	1120
22 Isophorone	82	5.435	5.438	(0.919)	544453	35.9859	1200
23 2-Nitrophenol	139	5.519	5.519	(0.933)	147882	37.5620	1250
24 2,4-Dimethylphenol	122	5.542	5.542	(0.937)	211546	32.4303	1080
25 bis(2-Chloroethoxy) methane	93	5.639	5.641	(0.953)	299347	33.6206	1120
26 2,4-Dichlorophenol	162	5.766	5.766	(0.975)	228741	38.6613	1290
27 Benzoic acid	105	5.675	5.649	(0.959)	374010	92.8911	3100
30 Naphthalene	128	5.940	5.940	(1.004)	773000	32.3690	1080
31 4-Chloroaniline	127	5.988	5.985	(1.012)	217284	28.3086	944
32 Hexachlorobutadiene	225	6.049	6.052	(1.022)	151320	40.0186	1330
34 2-Methylnaphthalene	142	6.661	6.661	(1.126)	558612	38.7634	1290
36 Hexachlorocyclopentadiene	237	6.816	6.819	(0.876)	60993	22.3007	743
37 2,4,6-Trichlorophenol	196	6.956	6.954	(0.894)	169939	36.7808	1230
38 2,4,5-Trichlorophenol	196	7.002	6.995	(0.900)	188135	38.2354	1270
40 2-Chloronaphthalene	162	7.183	7.181	(0.923)	566199	37.2332	1240
42 o-Nitroaniline	65	7.288	7.285	(0.937)	174429	33.5286	1120
41 m-Nitroaniline	138	7.731	7.733	(0.994)	114226	29.9939	1000
43 Dimethylphthalate	163	7.471	7.474	(0.960)	654653	37.6890	1260
44 2,6-Dinitrotoluene	165	7.545	7.547	(0.970)	148079	35.7412	1190
45 Acenaphthylene	152	7.629	7.629	(0.981)	889943	36.3977	1210
48 2,4-Dinitrophenol	184	7.846	7.846	(1.008)	52964	38.4285	1280
49 Dibenzofuran	168	7.998	7.998	(1.028)	746432	36.2354	1210
51 Diethylphthalate	149	8.225	8.223	(1.057)	686176	39.2268	1310
53 Fluorene	166	8.368	8.368	(1.076)	638267	37.7503	1260
54 4-Chlorophenylphenylether	204	8.355	8.355	(1.074)	302927	37.9194	1260
55 2-Methyl-4,6-dinitrophenol	198	8.424	8.421	(0.898)	99228	37.7493	1260

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
=====			==	=====	=====	=====	=====	=====
56 p-Nitroaniline		138	8.393	8.391	(1.079)	102660	30.8344	1030
133 Diphenylamine		169	8.488	8.483	(0.904)	522340	36.0861	1200
58 1,2-Diphenylhydrazine		77	8.531	8.528	(0.909)	668295	36.2971	1210
61 4-Bromophenylphenylether		248	8.885	8.883	(0.947)	175774	37.0935	1240
63 Hexachlorobenzene		284	8.962	8.959	(0.955)	196269	39.5416	1320
68 Phenanthrene		178	9.410	9.408	(1.003)	927634	37.3519	1240
69 Anthracene		178	9.466	9.464	(1.009)	938808	37.8197	1260
72 Di-n-butylphthalate		149	9.981	9.981	(1.064)	1165208	40.8739	1360
76 Fluoranthene		202	10.694	10.692	(1.140)	965221	40.5720	1350
85 Butylbenzylphthalate		149	11.607	11.607	(0.941)	506244	40.5672	1350
89 Benzo(a)anthracene		228	12.323	12.318	(0.999)	812800	38.0004	1270
90 3,3'-Dichlorobenzidine		252	12.269	12.269	(0.994)	198081	28.2891	943
92 Chrysene		228	12.374	12.371	(1.003)	788454	38.4719	1280
93 bis(2-Ethylhexyl)phthalate		149	12.300	12.300	(0.997)	728716	42.3552	1410
94 Di-n-octylphthalate		149	13.232	13.232	(0.909)	1128072	43.9412	1460
95 Benzo(b)fluoranthene		252	13.913	13.908	(0.955)	742237	41.5275	1380
96 Benzo(k)fluoranthene		252	13.958	13.956	(0.959)	740288	41.6523	1390
97 Benzo(a)pyrene		252	14.460	14.458	(0.993)	663926	43.0065	1430
99 Indeno(1,2,3-cd)pyrene		276	16.481	16.479	(1.132)	561644	38.3456	1280
100 Dibenzo(a,h)anthracene		278	16.509	16.507	(1.134)	455849	38.1629	1270
101 Benzo(ghi)perylene		276	16.975	16.975	(1.166)	459173	38.9328	1300 (Q)
1 N-Methyl-N-nitrosomethylamine		74	2.579	2.546	(0.555)	135059	25.5813	853

QC Flag Legend

Q - Qualifier signal failed the ratio test.

```
Instrument: MSD6.i
Operator: nag1
Column diameter: 0.20
```



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

SDG Number: 10-1567		Matrix: SOIL
Lab Sample ID: 1202046007		
Client Sample: QC for batch 954449	Client: LANL010	Project: QC
Client ID: LCS for batch 954449	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 954451	Inst: MSD4.I	Dilution: 1
Run Date: 02/18/2010 19:14	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/18/2010 13:52	Aliquot: 30 g	Final Volume: 1 mL
Data File: s4b1824-1.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		1050	ug/kg	66.7	333
108-95-2	Phenol		1340	ug/kg	66.7	333
95-57-8	2-Chlorophenol		1370	ug/kg	66.7	333
106-46-7	1,4-Dichlorobenzene		1140	ug/kg	66.7	333
621-64-7	N-Nitrosodipropylamine		1410	ug/kg	66.7	333
59-50-7	4-Chloro-3-methylphenol		1360	ug/kg	66.7	333
83-32-9	Acenaphthene		1180	ug/kg	11.0	33.3
121-14-2	2,4-Dinitrotoluene		1450	ug/kg	33.3	333
100-02-7	4-Nitrophenol		1310	ug/kg	110	333
87-86-5	Pentachlorophenol		1430	ug/kg	83.3	333
129-00-0	Pyrene		1350	ug/kg	10.0	33.3
110-86-1	Pyridine		935	ug/kg	66.7	333
62-53-3	Aniline		1460	ug/kg	100	333
111-44-4	bis(2-Chloroethyl) ether		1240	ug/kg	66.7	333
541-73-1	1,3-Dichlorobenzene		1100	ug/kg	66.7	333
100-51-6	Benzyl alcohol		1270	ug/kg	100	333
95-50-1	1,2-Dichlorobenzene		1140	ug/kg	66.7	333
108-60-1	bis(2-Chloroisopropyl)ether		1330	ug/kg	66.7	333
95-48-7	o-Cresol		1410	ug/kg	66.7	333
65794-96-9	m,p-Cresols		1670	ug/kg	100	333
67-72-1	Hexachloroethane		1100	ug/kg	66.7	333
98-95-3	Nitrobenzene		1280	ug/kg	66.7	333
78-59-1	Isophorone		1270	ug/kg	66.7	333
88-75-5	2-Nitrophenol		1230	ug/kg	66.7	333
105-67-9	2,4-Dimethylphenol		1190	ug/kg	117	333
111-91-1	bis(2-Chloroethoxy)methane		1280	ug/kg	66.7	333
120-83-2	2,4-Dichlorophenol		1340	ug/kg	66.7	333
65-85-0	Benzoic acid		2480	ug/kg	167	667
91-20-3	Naphthalene		1170	ug/kg	10.0	33.3
106-47-8	4-Chloroaniline		1280	ug/kg	66.7	333
87-68-3	Hexachlorobutadiene		1190	ug/kg	66.7	333
91-57-6	2-Methylnaphthalene		1340	ug/kg	6.67	33.3
77-47-4	Hexachlorocyclopentadiene		1310	ug/kg	66.7	333
88-06-2	2,4,6-Trichlorophenol		1350	ug/kg	66.7	333
95-95-4	2,4,5-Trichlorophenol		1500	ug/kg	66.7	333
91-58-7	2-Chloronaphthalene		1330	ug/kg	11.0	33.3
88-74-4	2-Nitroaniline		1470	ug/kg	66.7	333
99-09-2	o-Nitroaniline					
	3-Nitroaniline		1540	ug/kg	66.7	333

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

SDG Number: 10-1567		Matrix: SOIL
Lab Sample ID: 1202046007		
Client Sample: QC for batch 954449	Client: LANL010	Project: QC
Client ID: LCS for batch 954449	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 954451	Inst: MSD4.I	Dilution: 1
Run Date: 02/18/2010 19:14	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 02/18/2010 13:52	Aliquot: 30 g	Final Volume: 1 mL
Data File: s4b1824-1.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m-Nitroaniline</i>					
131-11-3	Dimethylphthalate		1420	ug/kg	66.7	333
606-20-2	2,6-Dinitrotoluene		1450	ug/kg	33.3	333
208-96-8	Acenaphthylene		1400	ug/kg	10.0	33.3
51-28-5	2,4-Dinitrophenol		1380	ug/kg	127	667
132-64-9	Dibenzofuran		1390	ug/kg	66.7	333
84-66-2	Diethylphthalate		1450	ug/kg	66.7	333
86-73-7	Fluorene		1020	ug/kg	10.0	33.3
7005-72-3	4-Chlorophenylphenylether		1350	ug/kg	66.7	333
534-52-1	2-Methyl-4,6-dinitrophenol		1400	ug/kg	66.7	333
100-01-6	4-Nitroaniline		1810	ug/kg	100	333
	<i>p-Nitroaniline</i>					
122-39-4	Diphenylamine		1560	ug/kg	66.7	333
122-66-7	Azobenzene		1500	ug/kg	66.7	333
	<i>1,2-Diphenylhydrazine</i>					
101-55-3	4-Bromophenylphenylether		1330	ug/kg	66.7	333
118-74-1	Hexachlorobenzene		1350	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		1450	ug/kg	66.7	333
206-44-0	Fluoranthene		1370	ug/kg	10.0	33.3
85-68-7	Butylbenzylphthalate		1660	ug/kg	66.7	333
56-55-3	Benzo(a)anthracene		1330	ug/kg	10.0	33.3
91-94-1	3,3'-Dichlorobenzidine		1380	ug/kg	100	333
218-01-9	Chrysene		1410	ug/kg	10.0	33.3
117-81-7	bis(2-Ethylhexyl)phthalate		1530	ug/kg	66.7	333
117-84-0	Di-n-octylphthalate		1410	ug/kg	66.7	333
205-99-2	Benzo(b)fluoranthene		1370	ug/kg	10.0	33.3
207-08-9	Benzo(k)fluoranthene		1390	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		1460	ug/kg	10.0	33.3
53-70-3	Dibenzo(a,h)anthracene		1490	ug/kg	10.0	33.3
191-24-2	Benzo(ghi)perylene		1430	ug/kg	10.0	33.3
120-82-1	1,2,4-Trichlorobenzene		1220	ug/kg	66.7	333

Data File: /chem/MSD4.i/s021810a.b/s4b1824-4.d
Report Date: 19-Feb-2010 09:55

Page 1

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Data file : /chem/MSD4.i/s021810a.b/s4b1824-4.d
Lab Smp Id: 1202046007 Client Smp ID: SBLK02LCS
Inj Date : 18-FEB-2010 19:14
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |1202046007|954451|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/s021810a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 19-Feb-2010 09:39 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1567.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	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4		152	3.935	3.936	(1.000)	120283	40.0000	
* 29 Naphthalene-d8		136	4.807	4.807	(1.000)	488545	40.0000	
* 46 Acenaphthene-d10		164	6.059	6.064	(1.000)	252695	40.0000	
* 67 Phenanthrene-d10		188	7.054	7.054	(1.000)	398164	40.0000	
* 91 Chrysene-d12		240	8.760	8.776	(1.000)	358458	40.0000	
* 98 Perylene-d12		264	10.300	10.322	(1.000)	347933	40.0000	
\$ 3 2-Fluorophenol		112	3.122	3.117	(0.793)	264397	77.1413	2570
\$ 5 Phenol-d5		99	3.647	3.647	(0.927)	335229	77.8542	2600
\$ 20 Nitrobenzene-d5		82	4.299	4.305	(0.894)	141860	37.8127	1260
\$ 39 2-Fluorobiphenyl		172	5.551	5.551	(0.916)	264000	40.4618	1350
\$ 60 2,4,6-Tribromophenol		329	6.599	6.599	(1.089)	72750	92.0553	3070
\$ 81 p-Terphenyl-d14		244	7.974	7.984	(0.910)	260152	46.4269	1550

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
6 Phenol	94	3.657	3.657	(0.929)	175842	40.1744	1340
8 2-Chlorophenol	128	3.796	3.802	(0.965)	147615	41.1389	1370
11 1,4-Dichlorobenzene	146	3.946	3.946	(1.003)	122302	34.1222	1140
17 N-Nitrosodipropylamine	70	4.171	4.176	(1.060)	103914	42.3734	1410
28 1,2,4-Trichlorobenzene	180	4.754	4.754	(0.989)	103793	36.6745	1220
33 4-Chloro-3-methylphenol	107	5.160	5.150	(1.073)	115199	40.9185	1360
47 Acenaphthene	154	6.086	6.086	(1.004)	228395	35.4700	1180
50 2,4-Dinitrotoluene	165	6.166	6.171	(1.018)	90555	43.4974	1450
52 4-Nitrophenol	139	6.107	6.096	(1.008)	47595	39.3749	1310
65 Pentachlorophenol	266	6.920	6.920	(0.981)	39481	42.8531	1430
79 Pyrene	202	7.931	7.936	(0.905)	394281	40.3579	1340
2 Pyridine	79	2.475	2.454	(0.629)	96980	28.0485	935
4 Aniline	66	3.716	3.722	(0.944)	74196	43.7125	1460 (Q)
7 bis(2-Chloroethyl) ether	63	3.732	3.738	(0.948)	96131	37.2799	1240 (Q)
9 1,3-Dichlorobenzene	146	3.898	3.903	(0.990)	117953	32.9826	1100
12 Benzyl alcohol	108	4.005	4.005	(1.018)	75811	38.1331	1270
13 1,2-Dichlorobenzene	146	4.048	4.053	(1.029)	111488	34.1552	1140
14 bis(2-Chloroisopropyl) ether	45	4.075	4.080	(1.035)	192383	39.8793	1330
15 o-Cresol	107	4.053	4.053	(1.030)	111286	42.2378	1410
18 m,p-Cresols	107	4.155	4.155	(1.056)	179177	49.9620	1660
19 Hexachloroethane	117	4.278	4.283	(1.087)	44399	32.9912	1100
21 Nitrobenzene	77	4.315	4.315	(0.898)	139588	38.4722	1280
22 Isophorone	82	4.465	4.470	(0.929)	288043	38.0703	1270
23 2-Nitrophenol	139	4.529	4.529	(0.942)	72588	36.9089	1230
24 2,4-Dimethylphenol	122	4.518	4.519	(0.940)	113886	35.6153	1190
25 bis(2-Chloroethoxy)methane	93	4.588	4.588	(0.954)	173258	38.2572	1280
26 2,4-Dichlorophenol	162	4.695	4.695	(0.977)	111241	40.0637	1340
27 Benzoic acid	105	4.599	4.583	(0.957)	186976	74.4468	2480
30 Naphthalene	128	4.823	4.823	(1.003)	393616	35.1801	1170
31 4-Chloroaniline	127	4.839	4.839	(1.007)	193592	38.5436	1280
32 Hexachlorobutadiene	225	4.882	4.882	(1.016)	50194	35.6912	1190
34 2-Methylnaphthalene	142	5.305	5.305	(1.103)	263684	40.2079	1340
36 Hexachlorocyclopentadiene	237	5.406	5.406	(0.892)	46638	39.4042	1310
37 2,4,6-Trichlorophenol	196	5.492	5.492	(0.906)	66389	40.5712	1350
38 2,4,5-Trichlorophenol	196	5.529	5.519	(0.913)	84888	44.8574	1500
40 2-Chloronaphthalene	162	5.658	5.663	(0.934)	242176	39.9201	1330
42 o-Nitroaniline	65	5.717	5.717	(0.944)	73987	44.0521	1470
41 m-Nitroaniline	138	6.011	6.016	(0.992)	73839	46.1251	1540
43 Dimethylphthalate	163	5.824	5.829	(0.961)	283992	42.4645	1420
44 2,6-Dinitrotoluene	165	5.882	5.888	(0.971)	69186	43.3754	1440
45 Acenaphthylene	152	5.963	5.968	(0.984)	388650	42.0990	1400
48 2,4-Dinitrophenol	184	6.080	6.080	(1.004)	25102	41.4560	1380 (Q)
49 Dibenzofuran	168	6.203	6.203	(1.024)	331269	41.6079	1390
51 Diethylphthalate	149	6.310	6.310	(1.041)	273644	43.4706	1450
53 Fluorene	166	6.433	6.439	(1.062)	215617	30.7448	1020
54 4-Chlorophenylphenylether	204	6.412	6.417	(1.058)	121529	40.5257	1350
55 2-Methyl-4,6-dinitrophenol	198	6.455	6.449	(0.915)	45464	42.1490	1400

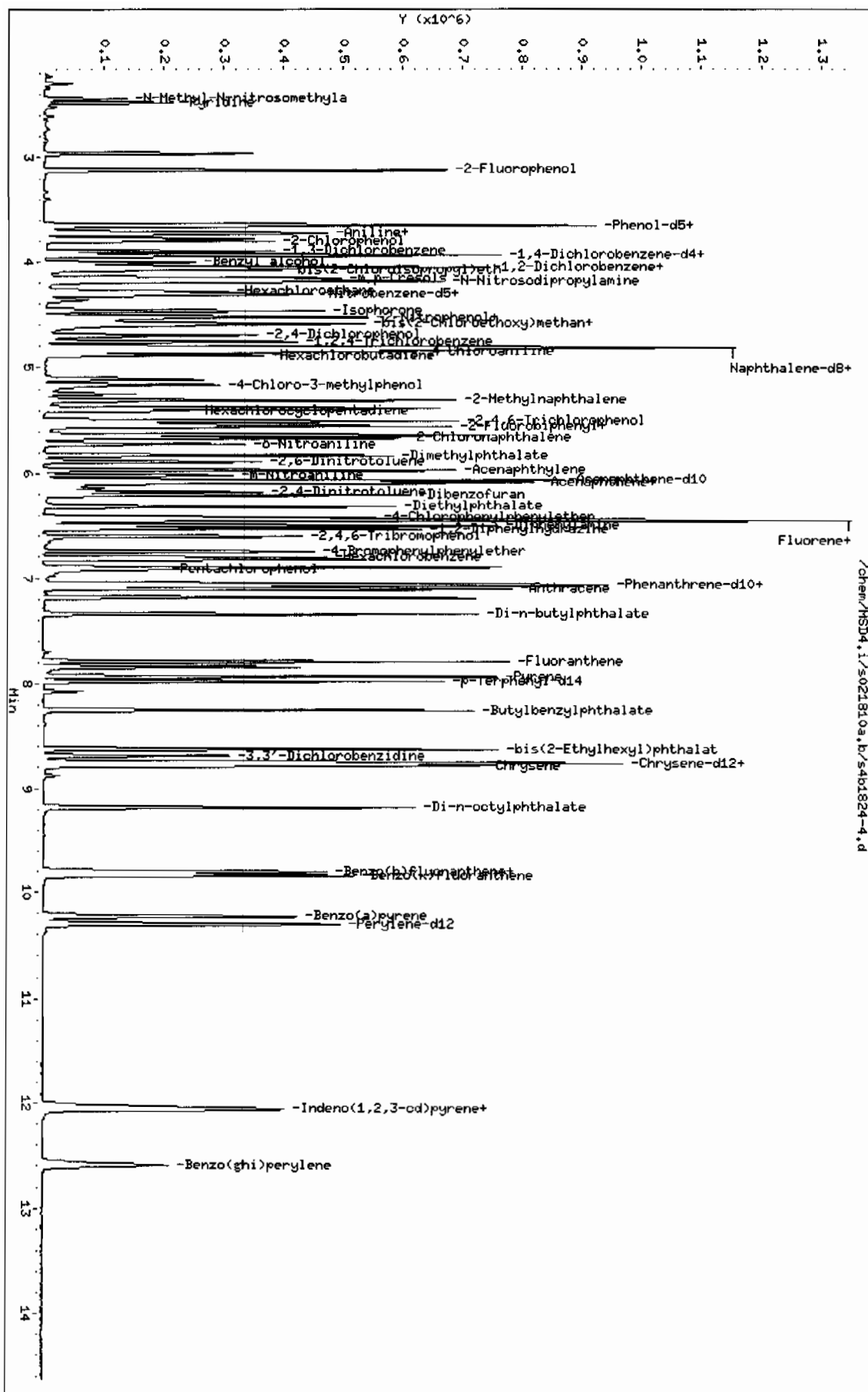
Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
56 p-Nitroaniline		138	6.439	6.439	(1.063)	66367	54.3446	1810
133 Diphenylamine		169	6.492	6.492	(0.920)	245929	46.6740	1560
58 1,2-Diphenylhydrazine		77	6.524	6.524	(0.925)	308858	44.9546	1500
61 4-Bromophenylphenylether		248	6.743	6.744	(0.956)	69468	39.8865	1330
63 Hexachlorobenzene		284	6.797	6.802	(0.964)	76148	40.5203	1350
68 Phenanthrene		178	7.070	7.070	(1.002)	384079	39.0964	1300
69 Anthracene		178	7.102	7.102	(1.007)	380990	38.1815	1270
72 Di-n-butylphthalate		149	7.337	7.343	(1.040)	470217	43.6485	1450
76 Fluoranthene		202	7.786	7.792	(1.104)	379106	41.2084	1370
85 Butylbenzylphthalate		149	8.246	8.257	(0.941)	206150	49.7218	1660
89 Benzo(a)anthracene		228	8.744	8.760	(0.998)	335815	39.9812	1330
90 3,3'-Dichlorobenzidine		252	8.685	8.680	(0.991)	99339	41.2545	1380
92 Chrysene		228	8.781	8.797	(1.002)	357269	42.2783	1410
93 bis(2-Ethylhexyl)phthalate		149	8.616	8.637	(0.984)	273430	46.0113	1530
94 Di-n-octylphthalate		149	9.182	9.204	(0.891)	439226	42.2096	1410
95 Benzo(b)fluoranthene		252	9.803	9.824	(0.952)	336768	41.0296	1370 (H)
96 Benzo(k)fluoranthene		252	9.835	9.856	(0.955)	345082	41.5513	1380
97 Benzo(a)pyrene		252	10.231	10.247	(0.993)	295115	42.0688	1400
99 Indeno(1,2,3-cd)pyrene		276	12.049	12.071	(1.170)	275499	43.7494	1460
100 Dibenzo(a,h)anthracene		278	12.060	12.081	(1.171)	231926	44.7443	1490
101 Benzo(ghi)perylene		276	12.595	12.616	(1.223)	223076	42.9765	1430
1 N-Methyl-N-nitrosomethylamine		74	2.438	2.427	(0.619)	77775	31.5095	1050

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: /chem/MSD4.i/s021810a,b/s4b1824-4.d
 Date: 18-FEB-2010 19:14
 Client ID: SRLK02LCS
 Sample Info: 14202040071954451.11SVH11LCS
 Volume Injected (uL): 0.5
 Column phase: 3uM DB-SHS

Instrument: MSD4.i
 Operator: JMB3
 Column diameter: 0.20



Miscellaneous Data

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD6

DATE: 11/09/2009

METHOD: See raw data

OPERATOR: JMB3

REVIEWED BY:

DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1
Multiplier Voltage: 1565 Emv
DFTPP Solution ID: WBN091101-01 Extr. Injection Volume: 0.5, 1.0 ul
CALIBRATION & QC INFORMATION: Internal Std ID: WBN091106-10
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. 22

Sequence Number: /chem/MSD6.i/s110909.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
s6k0901.d	WBN091101-01	JMB3	09-NOV-2009 11:20	150 PPM	s110909	1.0	DFTPP	IDUSE
s6k0902.d	Inst blk	JMB3	09-NOV-2009 11:35	-----	s110909	1.0	INST BLK	IDUSE
s6k0903.d	WBN091106-08	JMB3	09-NOV-2009 12:23	11 PPM	s110909	1.0	MEGAICAL	IDUSE
s6k0904.d	WBN091106-07	JMB3	09-NOV-2009 13:00	110 PPM	s110909	1.0	MEGAICAL	IDUSE
s6k0905.d	WBN091106-06	JMB3	09-NOV-2009 13:36	120 PPM	s110909	1.0	MEGAICAL	IDUSE
s6k0906.d	WBN091106-05.1	JMB3	09-NOV-2009 14:14	140 PPM	s110909	1.0	MEGAICAL	IDUSE
s6k0907.d	WBN091106-04	JMB3	09-NOV-2009 14:52	150 PPM	s110909	1.0	MEGAICAL	IDUSE
s6k0908.d	WBN091106-03	JMB3	09-NOV-2009 15:30	180 PPM	s110909	1.0	MEGAICAL	IDUSE
s6k0909.d	WBN091106-02	JMB3	09-NOV-2009 16:06	1100 PPM	s110909	1.0	MEGAICAL	IDUSE
s6k0910.d	WBN091106-01	JMB3	09-NOV-2009 16:43	1120 PPM	s110909	1.0	MEGAICAL	IDUSE
s6k0911-D.d	WBN091101-01	JMB3	09-NOV-2009 18:00	150 PPM	s110909	1.0	DFTPP	
s6k0911.d	WBN091101-01	JMB3	09-NOV-2009 18:00	150 PPM	s110909	1.0	DFTPP	
s6k0912.d	Inst blk	JMB3	09-NOV-2009 18:15	-----	s110909	1.0	INST BLK	
s6k0913.d	WBN091106-08	JMB3	09-NOV-2009 18:53	11 PPM	s110909	1.0	MEGAICAL	
s6k0914.d	WBN091106-07	JMB3	09-NOV-2009 19:31	110 PPM	s110909	1.0	MEGAICAL	
s6k0915.d	WBN091106-06	JMB3	09-NOV-2009 20:09	120 PPM	s110909	1.0	MEGAICAL	
s6k0916.d	WBN091106-05.1	JMB3	09-NOV-2009 20:46	140 PPM	s110909	1.0	MEGAICAL	
s6k0917.d	WBN091106-04	JMB3	09-NOV-2009 21:25	150 PPM	s110909	1.0	MEGAICAL	
s6k0918.d	WBN091106-03	JMB3	09-NOV-2009 22:01	180 PPM	s110909	1.0	MEGAICAL	

s6k0919.d	WBNO91106-02	JMB3	09-NOV-2009 22:39	1100 PPM	s110909	1.0 MEGICAL	
s6k0920.d	WBNO91106-01	JMB3	09-NOV-2009 23:16	1120 PPM	s110909	1.0 MEGICAL	
s6k0921-D.d	WBNO91101-01	JMB3	10-NOV-2009 11:07	150 PPM	s110909	1.0 DFTPP	
s6k0921.d	WBNO91101-01	JMB3	10-NOV-2009 11:07	150 PPM	s110909	1.0 DFTPP	
s6k0922.d	inst blk	JMB3	10-NOV-2009 11:21	-----	s110909	1.0 INST BLK	
s6k0923.d	WBNO91016-01	JMB3	10-NOV-2009 11:59	110 PPM	s110909	1.0 AP12ICAL	
s6k0924.d	WBNO91016-02	JMB3	10-NOV-2009 12:36	120 PPM	s110909	1.0 AP12ICAL	
s6k0925.d	WBNO91016-03	JMB3	10-NOV-2009 13:13	140 PPM	s110909	1.0 AP12ICAL	
s6k0926.d	WBNO91016-04	JMB3	10-NOV-2009 13:51	150 PPM	s110909	1.0 AP12ICAL	
s6k0927.d	WBNO91016-05	JMB3	10-NOV-2009 14:30	180 PPM	s110909	1.0 AP12ICAL	
s6k0928.d	WBNO91016-06	JMB3	10-NOV-2009 15:06	1100 PPM	s110909	1.0 AP12ICAL	
s6k0929.d	WBNO91016-07	JMB3	10-NOV-2009 15:43	1120 PPM	s110909	1.0 AP12ICAL	
s6k0930.d	WBNO91029-25	JMB3	10-NOV-2009 16:20	110 PPM	s110909	1.0 PESTICAL	
s6k0931.d	WBNO91029-24	JMB3	10-NOV-2009 16:56	120 PPM	s110909	1.0 PESTICAL	
s6k0932.d	WBNO91029-23.1	JMB3	10-NOV-2009 17:33	140 PPM	s110909	1.0 PESTICAL	
s6k0933.d	WBNO91029-22	JMB3	10-NOV-2009 18:09	150 PPM	s110909	1.0 PESTICAL	
s6k0934.d	WBNO91029-21	JMB3	10-NOV-2009 18:45	180 PPM	s110909	1.0 PESTICAL	
s6k0935.d	WBNO91029-20	JMB3	10-NOV-2009 19:21	1100 PPM	s110909	1.0 PESTICAL	
s6k0936.d	WBNO91029-19	JMB3	10-NOV-2009 19:58	1120 PPM	s110909	1.0 PESTICAL	
s6k0937-D.d	WBNO91106-09.1	JMB3	10-NOV-2009 20:29	140 PPM	s110909	1.0 MEGICALV	FAILED SC 8270D
s6k0937.d	WBNO91106-09.1	JMB3	10-NOV-2009 20:29	140 PPM	s110909	1.0 MEGICALV	
s6k0938-D.d	WBNO91016-08.1	JMB3	10-NOV-2009 21:07	140 PPM	s110909	1.0 AP12ICALV	
s6k0938.d	WBNO91016-08.1	JMB3	10-NOV-2009 21:07	140 PPM	s110909	1.0 AP12ICALV	
s6k0939-D.d	WBNO91029-26.1	JMB3	10-NOV-2009 21:35	140 PPM	s110909	1.0 PESTICALV	
s6k0939.d	WBNO91029-26.1	JMB3	10-NOV-2009 21:35	140 PPM	s110909	1.0 PESTICALV	
s6k0940-D.d	WBNO91101-01	JMB3	10-NOV-2009 22:12	150 PPM	s110909	1.0 DFTPP	
s6k0940.d	WBNO91101-01	JMB3	10-NOV-2009 22:12	150 PPM	s110909	1.0 DFTPP	

s6k0941.d	inst blk	JMB3	10-NOV-2009 22:26	-----s110909	1.0 INST BLK	
s6k0942.d	WBN091016-16	JMB3	10-NOV-2009 22:55	500 PPM s110909	1.0 HEXICAL	
s6k0943.d	WBN091016-15	JMB3	10-NOV-2009 23:24	1000 PPM s110909	1.0 HEXICAL	
s6k0944.d	WBN091016-14	JMB3	10-NOV-2009 23:53	1250 PPM s110909	1.0 HEXICAL	
s6k0945.d	WBN091016-13	JMB3	11-NOV-2009 00:21	1500 PPM s110909	1.0 HEXICAL	
s6k0946.d	WBN091016-12	JMB3	11-NOV-2009 00:50	1750 PPM s110909	1.0 HEXICAL	
s6k0947.d	WBN090828-02.4-16	JMB3	11-NOV-2009 01:18	1500 PPM s110909	1.0 HEXICAL	
s6k0948.d	WBN090924-01	JMB3	11-NOV-2009 01:47	110 PPM s110909	1.0 NEVICAL	
s6k0949.d	WBN090924-02	JMB3	11-NOV-2009 02:16	120 PPM s110909	1.0 NEVICAL	
s6k0950.d	WBN090924-03	JMB3	11-NOV-2009 02:44	140 PPM s110909	1.0 NEVICAL	
s6k0951.d	WBN090924-04	JMB3	11-NOV-2009 03:12	150 PPM s110909	1.0 NEVICAL	DUSE - disabled
s6k0952.d	WBN090924-05	JMB3	11-NOV-2009 03:41	180 PPM s110909	1.0 NEVICAL	
s6k0953.d	WBN090924-06	JMB3	11-NOV-2009 04:10	1100 PPM s110909	1.0 NEVICAL	
s6k0954.d	WBN090924-07	JMB3	11-NOV-2009 04:38	1120 PPM s110909	1.0 NEVICAL	DUSE - disabled
s6k0955-D.d	WBN091016-10.1	JMB3	11-NOV-2009 05:07	1250 PPM s110909	1.0 HEXICV	DUSE - failed >70%-130%
s6k0955.d	WBN091016-10.1	JMB3	11-NOV-2009 05:07	1250 PPM s110909	1.0 HEXICV	

Instrument Batch: /chem/MSD6.i/s110909.b

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
s4b1601.d	WBN100207-01	JMB3	16-FEB-2010 08:46	DFTPP	s021610	1.0	DFTPP	DOSE
s4b1602.d	WBN100207-01	JMB3	16-FEB-2010 09:15	DFTPP	s021610	1.0	DFTPP	DOSE
s4b1603-D.d	WBN100207-01	JMB3	16-FEB-2010 09:30	DFTPP	s021610	1.0	DFTPP	8270d TUNE: AP - PEST - HEX
s4b1603.d	WBN100207-01	JMB3	16-FEB-2010 09:30	DFTPP	s021610	1.0	DFTPP	8270c TUNE: AP - PEST - HEX
s4b1604.d	INSTBLANK	JMB3	16-FEB-2010 09:43	IB	s021410	1.0	INSTBLANK	
s4b1605.d	WBN100120-01	JMB3	16-FEB-2010 10:08	ICAL	s021410	1.0	AP010	
s4b1606.d	WBN100120-02	JMB3	16-FEB-2010 10:30	ICAL	s021410	1.0	AP020	
s4b1607.d	WBN100120-03.1	JMB3	16-FEB-2010 10:52	ICAL	s021410	1.0	AP040	
s4b1608.d	WBN100120-04	JMB3	16-FEB-2010 11:14	ICAL	s021410	1.0	AP050	
s4b1609.d	WBN100120-05	JMB3	16-FEB-2010 11:36	ICAL	s021410	1.0	AP080	
s4b1610.d	WBN100120-06	JMB3	16-FEB-2010 11:59	ICAL	s021410	1.0	AP100	
s4b1611.d	WBN100120-07	JMB3	16-FEB-2010 12:21	ICAL	s021410	1.0	AP120	
s4b1612.d	WBN100205-25	JMB3	16-FEB-2010 12:43	ICAL	s021410	1.0	PEST010	
s4b1613.d	WBN100205-24	JMB3	16-FEB-2010 13:05	ICAL	s021410	1.0	PEST020	
s4b1614.d	WBN100205-23.1	JMB3	16-FEB-2010 13:27	ICAL	s021410	1.0	PEST040	
s4b1615.d	WBN100205-22	JMB3	16-FEB-2010 13:50	ICAL	s021410	1.0	PEST050	
s4b1616.d	WBN100205-21	JMB3	16-FEB-2010 14:12	ICAL	s021410	1.0	PEST080	DOSE: see s4b1625
s4b1617.d	WBN100205-20	JMB3	16-FEB-2010 14:34	ICAL	s021410	1.0	PEST100	DOSE: see s4b1626
s4b1618.d	WBN100205-19	JMB3	16-FEB-2010 14:56	ICAL	s021410	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	WBN100120-11	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	DFTPP	s021610	1.0 DFTPP	8270d TUNE: NEV - BJCO
s4b1630.d	WBN100207-01	JMB3	16-FEB-2010 19:26	DFTPP	s021610	1.0 DFTPP	8270c TUNE: NEV - BJCO
s4b1631.d	INSTBLANK	JMB3	16-FEB-2010 19:38	IB	s021610	1.0 INSTBLANK	
s4b1632.d	WBN100127-01	JMB3	16-FEB-2010 20:07	ICAL	s021410	1.0 NEV010	
s4b1633.d	WBN100127-02	JMB3	16-FEB-2010 20:29	ICAL	s021410	1.0 NEV020	
s4b1634.d	WBN100127-03	JMB3	16-FEB-2010 20:51	ICAL	s021410	1.0 NEV040	
s4b1635.d	WBN100127-04	JMB3	16-FEB-2010 21:13	ICAL	s021410	1.0 NEV050	
s4b1636.d	WBN100127-05	JMB3	16-FEB-2010 21:35	ICAL	s021410	1.0 NEV080	
s4b1637.d	WBN100127-06	JMB3	16-FEB-2010 21:57	ICAL	s021410	1.0 NEV100	
s4b1638.d	WBN100127-07	JMB3	16-FEB-2010 22:19	ICAL	s021410	1.0 NEV120	

s4b1639.d	WEN100121-07	JMB3	16-FEB-2010 22:41	ICAL	s021410		1.0 BJCO010	
s4b1640.d	WEN100121-06	JMB3	16-FEB-2010 23:09	ICAL	s021410		1.0 BJCO020	
s4b1641.d	WEN100121-05.1	JMB3	16-FEB-2010 23:37	ICAL	s021410		1.0 BJCO040	
s4b1642.d	WEN100121-04	JMB3	17-FEB-2010 00:06	ICAL	s021410		1.0 BJCO050	
s4b1643.d	WEN100121-03	JMB3	17-FEB-2010 00:34	ICAL	s021410		1.0 BJCO080	
s4b1644.d	WEN100121-02	JMB3	17-FEB-2010 01:03	ICAL	s021410		1.0 BJCO100	
s4b1645.d	WEN100121-01	JMB3	17-FEB-2010 01:31	ICAL	s021410		1.0 BJCO120	

Instrument Batch: /chem/MSD4.i/s021610.b

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD6

DATE: 02/16/2010

METHOD: See raw data

OPERATOR: nagl

REVIEWED BY:

DATE:

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT: 1239699-D

Multiplier Voltage: 1553 Emv Extr. Injection Volume: 0.5, 1.0 ul

DFTPP Solution ID: WBN100107-01 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/MSD6.i/s021610.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
s6b1601.d	WBN100107-01	nagl	16-FEB-2010 08:58	DFTPP	s021610	1.0	DFTPP	DUSE
s6b1602.d	WBN100107-01	nagl	16-FEB-2010 10:00	DFTPP	s021610	1.0	DFTPP	DUSE
s6b1603.d	WBN100129-09.2	nagl	16-FEB-2010 10:14	CCV	s021610	1.0	MEGACVS	DUSE
s6b1604.d	WBN100107-01	nagl	16-FEB-2010 11:02	DFTPP	s021610	1.0	DFTPP	DUSE
s6b1605.d	WBN100129-09.2	nagl	16-FEB-2010 11:16	CCV	s021610	1.0	MEGACVS	DUSE
s6b1606.d	WBN100129-09.2	nagl	16-FEB-2010 11:49	CCV	s021610	1.0	MEGACVS	DUSE
s6b1607.d	WBN100107-01	nagl	16-FEB-2010 13:45	DFTPP	s021610	1.0	DFTPP	1257565
s6b1608.d	WBN100215-09.1	nagl	16-FEB-2010 13:59	CCV	s021610	1.0	MEGACVS	
s6b1609.d	WBN100120-08.2	nagl	16-FEB-2010 14:28	CCV	s021610	1.0	AFCVS	
s6b1610-1.d	1202036798	nagl	16-FEB-2010 14:55	950447	10-1567	1.0	SLK01	
s6b1610-2.d	1202036798	nagl	16-FEB-2010 14:55	950447	10-1577	1.0	SLK01	
s6b1610.d	1202036798	nagl	16-FEB-2010 14:55	950447	10-1562	1.0	SLK01	
s6b1611-1.d	1202036801	nagl	16-FEB-2010 15:23	950447	10-1567	1.0	SLK01LCS	
s6b1611-2.d	1202036801	nagl	16-FEB-2010 15:23	950447	10-1577	1.0	SLK01LCS	
s6b1611.d	1202036801	nagl	16-FEB-2010 15:23	950447	10-1562	1.0	SLK01LCS	
s6b1612.d	1202043040	nagl	16-FEB-2010 15:52	953144	10-1459	1.0	SLK01	
s6b1613.d	1202043041	nagl	16-FEB-2010 16:22	953144	10-1459	1.0	SLK01LCS	
s6b1614.d	1202043042	nagl	16-FEB-2010 16:50	953144	10-1459	1.0	SLK01LCS	
s6b1615.d	1245778013	nagl	16-FEB-2010 17:18	953144	10-1459	1.0	LANRE	DUSE - failed surr

s6b1616.d	1246316002	lnag1	16-FEB-2010 17:46	1950447	10-1562	1.0 LANL	DUSE - failed surr - RX OH - RX passed on MSD4
s6b1617.d	1246316003	lnag1	16-FEB-2010 18:14	1950447	10-1562	1.0 LANL	DUSE - failed surr - RX OH - RX passed on MSD4
s6b1618.d	1246316004	lnag1	16-FEB-2010 18:42	1950447	10-1562	1.0 LANL	DUSE - failed surr - RX OH - RX passed on MSD4
s6b1619.d	1246316005	lnag1	16-FEB-2010 19:10	1950447	10-1562	1.0 LANL	DUSE - failed surr - RX OH - RX passed on MSD4
s6b1620.d	1246330002	lnag1	16-FEB-2010 19:37	1950447	10-1567	1.0 LANL	
s6b1621.d	1246330003	lnag1	16-FEB-2010 20:06	1950447	10-1567	1.0 LANL	
s6b1622.d	1246330004	lnag1	16-FEB-2010 20:33	1950447	10-1567	1.0 LANL	
s6b1623.d	1246330005	lnag1	16-FEB-2010 21:01	1950447	10-1567	1.0 LANL	
s6b1624.d	1246330006	lnag1	16-FEB-2010 21:28	1950447	10-1567	1.0 LANL	
s6b1625.d	1246330007	lnag1	16-FEB-2010 21:57	1950447	10-1567	1.0 LANL	
s6b1626.d	1246330008	lnag1	16-FEB-2010 22:25	1950447	10-1567	1.0 LANL	
s6b1627.d	1246330009	lnag1	16-FEB-2010 22:53	1950447	10-1567	1.0 LANL	DUSE - failed surr - RX OH - RX passed on MSD4
s6b1628.d	1246330010	lnag1	16-FEB-2010 23:21	1950447	10-1567	1.0 LANL	
s6b1629.d	1246331001	lnag1	16-FEB-2010 23:48	1950447	10-1577	1.0 LANL	DUSE-failed IS-see s62014/surr-OR hit-rr at 4x-RX OH-see s6b1724-RX confirmed on
s6b1630.d	1246331002	lnag1	17-FEB-2010 00:16	1950447	10-1577	1.0 LANL	DUSE-failed IS-s62016 confirmed/surr-OR hit-rr at 100x-RX OH-see s6b1724-RX confir
s6b1631.d	1246266004	lnag1	17-FEB-2010 00:44	1950432	10-1547	1.0 LANL	DUSE - rr of s6b1513
s6b1632.d	1246316001	lnag1	17-FEB-2010 01:11	1950447	10-1562	1.0 LANL	failed IS
s6b1633.d	1202036799	lnag1	17-FEB-2010 01:39	1950447	10-1562	1.0 MS	failed IS/spike
s6b1634.d	1202036800	lnag1	17-FEB-2010 02:07	1950447	10-1562	1.0 MSD	DUSE - failed IS/surr/spike - outside TUNE window - see s6b1726

Instrument Batch: /chem/MSD6.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	DUSE
s4b1702-D.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.c	INST BLK	JMB3	17-FEB-2010 17:19	---	s021710	1.0	INST BLK	
s4b1704.d	WBN100215-08	JMB3	17-FEB-2010 17:46	ICAL	s021710	1.0	MEGA001	
s4b1705-D.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.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 BLK	JMB3	17-FEB-2010 21:22	---	s021710	1.0	INST BLK	
s4b1713-625.d	WBN100215-09.1	JMB3	17-FEB-2010 21:48	ICV	s021710	1.0	MEGAICV	625 MEGA ICV
s4b1713-C.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: 02/18/2010

METHOD: See raw data

OPERATOR: JMB3

REVIEWED BY:

DATE:

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1
 Multiplier Voltage: 1282 Emv
 DFTPP Solution ID: WBN100207-01 Extr. Injection Volume: 0.5, 1.0 ul
 CALIBRATION & QC INFORMATION: Internal Std ID: WBN100205-01
 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/s021810a.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
Is4b1819.d	WBN100207-01	JMB3	18-FEB-2010 17:28	DFTPP	Is021810a	1.0	DFTPP	8270c TUNE: PASSES
Is4b1820.d	WBN100215-09.4	JMB3	18-FEB-2010 17:40	CVS	Is021810a	1.0	MEGACVS	8270c MEGA CVS (ISI: 130619)
Is4b1821.d	WBN100103-03.2	JMB3	18-FEB-2010 18:07	CVS	Is021810a	1.0	APCVS	8270c AP CVS
Is4b1822.d	WBN100205-23.5	JMB3	18-FEB-2010 18:30	CVS	Is021810a	1.0	PESTCVS	8270c PEST CVS
Is4b1823-1.d	11202046006	JMB3	18-FEB-2010 18:52	954451	10-1567	1.0	MB	
Is4b1823-2.d	11202046006	JMB3	18-FEB-2010 18:52	954451	10-1562	1.0	MB	
Is4b1823-3.d	11202046006	JMB3	18-FEB-2010 18:52	954451	10-1577	1.0	MB	
Is4b1823-4.d	11202046006	JMB3	18-FEB-2010 18:52	954451	10-1821	1.0	MB	
Is4b1823.d	11202046006	JMB3	18-FEB-2010 18:52	954451	10-1846	1.0	MB	
Is4b1824-1.d	11202046007	JMB3	18-FEB-2010 19:14	954451	10-1562	1.0	LCS	
Is4b1824-2.d	11202046007	JMB3	18-FEB-2010 19:14	954451	10-1577	1.0	LCS	
Is4b1824-3.d	11202046007	JMB3	18-FEB-2010 19:14	954451	10-1821	1.0	LCS	
Is4b1824-4.d	11202046007	JMB3	18-FEB-2010 19:14	954451	10-1567	1.0	LCS	
Is4b1824.d	11202046007	JMB3	18-FEB-2010 19:14	954451	10-1846	1.0	LCS	
Is4b1825.d	11202043624	JMB3	18-FEB-2010 19:36	954549	1246858-1	1.0	MB	
Is4b1826.d	11202046234	JMB3	18-FEB-2010 19:58	954549	1246858-1	1.0	MB	
Is4b1827.d	11202046235	JMB3	18-FEB-2010 20:20	954549	1246858-1	1.0	LCS	
Is4b1828.d	1246867002	JMB3	18-FEB-2010 20:43	954549	1246858-1	1.0	BY12	
Is4b1829.d	1246867005	JMB3	18-FEB-2010 21:05	954549	1246858-1	1.0	BY12	

s4b1830.d	1202046236	JMB3	18-FEB-2010 21:27	954549	246858-1	1.0 MS	
s4b1831.d	1202046237	JMB3	18-FEB-2010 21:49	954549	246858-1	1.0 MSD	
s4b1832.d	1246867009	JMB3	18-FEB-2010 22:11	954549	246858-1	1.0 BY12	
s4b1833.d	1246867010	JMB3	18-FEB-2010 22:33	954549	246858-1	1.0 BY12	
s4b1834.d	1246867015	JMB3	18-FEB-2010 22:55	954549	246858-1	1.0 BY12	
s4b1835.d	1246867018	JMB3	18-FEB-2010 23:17	954549	246858-1	1.0 BY12	
s4b1836.d	1246867022	JMB3	18-FEB-2010 23:40	954549	246858-1	1.0 BY12	
s4b1837.d	1246867025	JMB3	19-FEB-2010 00:02	954549	246858-1	1.0 BY12	
s4b1838.d	1246316002	JMB3	19-FEB-2010 00:24	954451	10-1562	1.0 LANL	passes - rx of s6b1616
s4b1839.d	1246316003	JMB3	19-FEB-2010 00:46	954451	10-1562	1.0 LANL	passes - rx of s6b1617
s4b1840.d	1246316004	JMB3	19-FEB-2010 01:08	954451	10-1562	1.0 LANL	passes - rx of s6b1618
s4b1841.d	1246316005	JMB3	19-FEB-2010 01:30	954451	10-1562	1.0 LANL	passes - rx of s6b1619
s4b1842.d	1246330009	JMB3	19-FEB-2010 01:52	954451	10-1567	1.0 LANL	passes - rx of s6b1627
s4b1843.d	1246331001	JMB3	19-FEB-2010 02:15	954451	10-1577	1.0 LANL	DUSE: rx of s6b1629 - confirms surr failure
s4b1844.d	1246331002	JMB3	19-FEB-2010 02:37	954451	10-1577	1.0 LANL	DUSE: rx of s6b1630 - confirms surr failure
s4b1845.d	1247033002	JMB3	19-FEB-2010 02:59	954451	10-1821	1.0 LANL	fails surr - MS/MSD confirm
s4b1846.d	1202046052	JMB3	19-FEB-2010 03:21	954451	10-1821	1.0 MS	fails surr - SAMPLE/MSD confirm / fails spike - MSD confirms
s4b1847.d	1202046053	JMB3	19-FEB-2010 03:43	954451	10-1821	1.0 MSD	fails surr - SAMPLE/MS confirm / fails spike - MS confirms
s4b1848.d	1247121002	JMB3	19-FEB-2010 04:05	954451	10-1846	1.0 LANL	

Instrument Batch: /chem/MSD4.i/s021810a.b

DATA EXCEPTION REPORT

Mo. Day Yr. 19-FEB-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: SEM/VOA GC/MS	Test / Method: SW846 8270C	Matrix Type: Solid	Client Code: LANL
Batch ID: 954451	Sample Numbers: See Below		

Potentially affected work order(s)(SDG): 246316(10-1562),246330(10-1567),246331(10-1577),247033(10-1821),247121(10-1846)

Application Issues:

Failed Recovery for MS/PS

Failed RPD for MS/MSD, or PS/PSD

Failed Recovery for MSD/PSD

Failed Yield for Surrogates

**Specification and Requirements
Exception Description:**

1. MS 1202046052 and MSD 1202046053 failed spike recovery limits. Please see the QC summary report for specific failures.
2. The relative percent difference between MS 1202046052 and MSD 1202046053 failed acceptance limits for one or more target analytes. Please see the QC summary report for specific failures.
3. Sample 247033002, MS 1202046052 and MSD 1202046053 failed surrogate recovery limits. Please see the QC summary report for specific failures.
4. Samples 246331001 and 246331002 failed surrogate recovery limits. Please see the QC summary report for specific failures.

DER Disposition:

- 1,2. As the MS and MSD displayed similar recoveries, the failures were attributed to sample matrix interference and the data have been reported.
3. Surrogate recoveries were not within the acceptance limit. The associated spike and spike duplicate recovered in a similar manner. Matrix interference has been demonstrated.
4. The samples were re-extracted out of holding and the surrogate failure confirmed. Accordingly, the failures were attributed to matrix interference and the data were reported.

Originator's Name:

Josh Brooks

19-FEB-10

Data Validator/Group Leader:

Daniel Beacham

20-FEB-10

DATA EXCEPTION REPORT

Mo. Day Yr. 20-FEB-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: SEMIVOA GC/MS	Test / Method: SW846 8270C	Matrix Type: Solid	Client Code: LANL
Batch ID: 950447	Sample Numbers: See Below		

Potentially affected work order(s)(SDG): 246316(10-1562),246330(10-1567),246331(10-1577)

Application Issues:

Failed Recovery for MS/PS
Failed RPD for MS/MSD, or PS/PSD
Failed Yield for Surrogates
Failed Recovery for MSD/PSD

**Specification and Requirements
Exception Description:**

1. The MS(1202036799) and MSD(1202036800) did not meet spike recovery acceptance limits for multiple target analytes.
2. The MS/MSD failed RPD for multiple target analytes.
3. Samples 246316001, 246316002, 246316003, 246316004, 246316005, 246330009, 246331001, 246331002, and 1202036800MSD failed surrogate recovery acceptance criteria.

DER Disposition:

1., 2. As the MS/MSD exhibited similar recoveries, the failures were attributed to matrix interference and the data were reported.

3. Samples 246316002, 246316003, 246316004, 246316005, and 246330009 were re-extracted out of holding in batch 954451 and the surrogate failures did not confirm. Both sets of data were reported.

Samples 246331001, 246331002 were re-extracted out of holding in batch 954451 and the surrogate failure confirmed. Accordingly, the failure was attributed to matrix interference and the data were reported.

The associated MSD to sample 246316001 displayed similar surrogate recoveries. The failures were attributed to matrix interference and the data were reported.

Originator's Name:

Nathan Greene 20-FEB-10

Data Validator/Group Leader:

Cameron Bearden 23-FEB-10

GEL Laboratories LLC

Data file : /chem/MSD6.i/s021610.b/s6b1633.d
 Lab Smp Id: 1202036799 Client Smp ID: RE16-10-10123MS
 Inj Date : 17-FEB-2010 01:39
 Operator : nagl Inst ID: MSD6.i
 Smp Info : |1202036799|950447|1|SVM|1|MS
 Misc Info : |MSD8270_S|WBN100205-01
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD6.i/s021610.b/MSD6-M8270C-AQA-110909.m
 Meth Date : 16-Feb-2010 17:39 nat00999 Quant Type: ISTD
 Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
 Als bottle: 27 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1562.sub
 Target Version: 3.50
 Processing Host: hpc1p1

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	8.59000	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN	FINAL
						(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	4.650	4.650	(1.000)	253090	40.0000	
* 29 Naphthalene-d8	136	5.917	5.917	(1.000)	1013611	40.0000	
* 46 Acenaphthene-d10	164	7.777	7.777	(1.000)	583650	40.0000	
* 67 Phenanthrene-d10	188	9.385	9.382	(1.000)	983622	40.0000	
* 91 Chrysene-d12	240	12.335	12.338	(1.000)	546978	40.0000	
* 98 Perylene-d12	264	14.555	14.557	(1.000)	260859	40.0000	
\$ 3 2-Fluorophenol	112	3.514	3.496	(0.756)	228700	36.0843	1310
\$ 5 Phenol-d5	99	4.281	4.273	(0.921)	314548	39.3217	1430
\$ 20 Nitrobenzene-d5	82	5.185	5.185	(0.876)	130351	18.1795	662
\$ 39 2-Fluorobiphenyl	172	7.040	7.040	(0.905)	307662	20.4547	745
\$ 60 2,4,6-Tribromophenol	329	8.628	8.625	(1.109)	72828	42.7516	1560
\$ 81 p-Terphenyl-d14	244	11.087	11.087	(0.899)	289657	32.8375	1200

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ng/ul)	FINAL (ug/Kg)
6 Phenol	94	4.296	4.286	(0.924)	167696	20.8495	760 (Q)
8 2-Chlorophenol	128	4.459	4.454	(0.959)	134079	20.7530	756
11 1,4-Dichlorobenzene	146	4.668	4.666	(1.004)	120929	16.0390	584
17 N-Nitrosodipropylamine	70	5.017	5.022	(1.079)	95872	21.3818	779 (Q)
28 1,2,4-Trichlorobenzene	180	5.850	5.850	(0.989)	132082	21.4840	783
33 4-Chloro-3-methylphenol	107	6.492	6.477	(1.097)	130767	25.8584	942
47 Acenaphthene	154	7.812	7.815	(1.005)	280902	21.3546	778
50 2,4-Dinitrotoluene	165	7.978	7.978	(1.026)	95344	21.1727	771
52 4-Nitrophenol	139	7.935	7.907	(1.020)	30159	17.5433	639
65 Pentachlorophenol	266	9.178	9.171	(0.978)	38278	20.9931	765
79 Pyrene	202	10.941	10.942	(0.887)	470764	31.2910	1140
2 Pyridine	79	2.594	2.579	(0.558)	76982	14.3548	523
4 Aniline	66	4.344	4.344	(0.934)	46967	14.0714	513
7 bis(2-Chloroethyl) ether	63	4.383	4.383	(0.942)	88532	16.2547	592
9 1,3-Dichlorobenzene	146	4.599	4.599	(0.989)	118466	15.9278	580
13 1,2-Dichlorobenzene	146	4.813	4.811	(1.035)	127345	18.0943	659
14 bis(2-Chloroisopropyl) ether	45	4.885	4.867	(1.050)	235958	19.4047	707
15 o-Cresol	107	4.864	4.854	(1.046)	120722	22.9493	836
18 m,p-Cresols	107	5.009	5.010	(1.077)	162314	24.3514	887
19 Hexachloroethane	117	5.139	5.139	(1.105)	46239	15.8524	577
21 Nitrobenzene	77	5.203	5.206	(0.879)	137775	19.0644	694
22 Isophorone	82	5.435	5.438	(0.919)	293981	22.9495	836
23 2-Nitrophenol	139	5.522	5.519	(0.933)	67898	20.3691	742
24 2,4-Dimethylphenol	122	5.545	5.542	(0.937)	125186	22.6665	826
25 bis(2-Chloroethoxy) methane	93	5.639	5.641	(0.953)	152447	20.2224	737
26 2,4-Dichlorophenol	162	5.766	5.766	(0.975)	120578	24.0703	877
27 Benzoic acid	105	5.639	5.649	(0.953)	92243	27.0587	986 (Q)
30 Naphthalene	128	5.940	5.940	(1.004)	391149	19.3452	705
31 4-Chloroaniline	127	5.988	5.985	(1.012)	98398	15.1412	552
32 Hexachlorobutadiene	225	6.052	6.052	(1.023)	72247	22.5667	822
34 2-Methylnaphthalene	142	6.661	6.661	(1.126)	297616	24.3921	888
37 2,4,6-Trichlorophenol	196	6.959	6.954	(0.895)	92678	23.2712	848
38 2,4,5-Trichlorophenol	196	7.005	6.995	(0.901)	101892	24.0243	875
40 2-Chloronaphthalene	162	7.183	7.181	(0.924)	301392	22.9936	838
42 o-Nitroaniline	65	7.287	7.285	(0.937)	87776	19.5743	713
41 m-Nitroaniline	138	7.731	7.733	(0.994)	48692	14.8333	540 (R)
43 Dimethylphthalate	163	7.468	7.474	(0.960)	361676	24.1567	880
44 2,6-Dinitrotoluene	165	7.542	7.547	(0.970)	75448	21.1269	770
45 Acenaphthylene	152	7.626	7.629	(0.981)	487259	23.1199	842
48 2,4-Dinitrophenol	184	7.858	7.846	(1.010)	6560	17.9402	654 (a)
49 Dibenzofuran	168	7.996	7.998	(1.028)	407831	22.9687	837
51 Diethylphthalate	149	8.220	8.223	(1.057)	372610	24.7125	900
53 Fluorene	166	8.365	8.368	(1.076)	349721	23.9968	874
54 4-Chlorophenylphenylether	204	8.355	8.355	(1.074)	166222	24.1394	879
55 2-Methyl-4,6-dinitrophenol	198	8.419	8.421	(0.897)	23019	15.7725	574
56 p-Nitroaniline	138	8.393	8.391	(1.079)	37232	17.0663	622 (R)
133 Diphenylamine	169	8.483	8.483	(0.904)	279911	23.6093	860

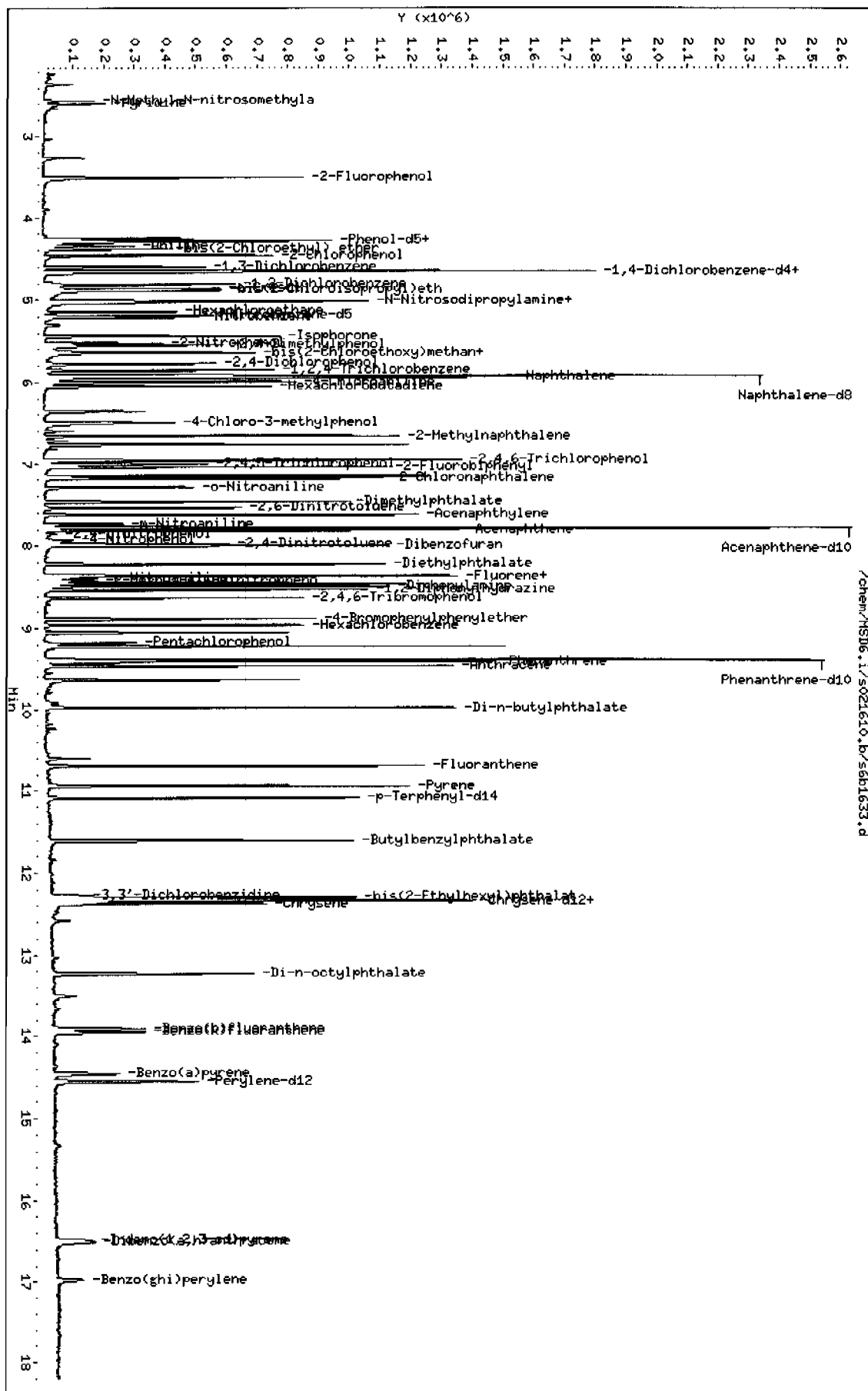
Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
58 1,2-Diphenylhydrazine	77	8.528	8.528	(0.909)	356996	23.6725	862
61 4-Bromophenylphenylether	248	8.883	8.883	(0.946)	93565	24.1065	878
63 Hexachlorobenzene	284	8.959	8.959	(0.955)	97642	24.0169	875
68 Phenanthrene	178	9.407	9.408	(1.002)	516779	25.4050	925
69 Anthracene	178	9.464	9.464	(1.008)	494973	24.3445	887
72 Di-n-butylphthalate	149	9.981	9.981	(1.064)	627093	26.8567	978
76 Fluoranthene	202	10.692	10.692	(1.139)	483235	24.7991	903
85 Butylbenzylphthalate	149	11.606	11.607	(0.941)	220788	32.0672	1170
89 Benzo(a)anthracene	228	12.320	12.318	(0.999)	285549	24.1967	881
90 3,3'-Dichlorobenzidine	252	12.272	12.269	(0.995)	27687	7.16678	261 (aR)
92 Chrysene	228	12.368	12.371	(1.003)	275794	24.3906	888
93 bis(2-Ethylhexyl)phthalate	149	12.297	12.300	(0.997)	301882	31.9037	1160
94 Di-n-octylphthalate	149	13.230	13.232	(0.909)	413219	49.8420	1820
95 Benzo(b)fluoranthene	252	13.907	13.908	(0.956)	172003	29.7996	1080
96 Benzo(k)fluoranthene	252	13.953	13.956	(0.959)	175833	30.6351	1120
97 Benzo(a)pyrene	252	14.458	14.458	(0.993)	137816	27.6436	1010
99 Indeno(1,2,3-cd)pyrene	276	16.484	16.479	(1.133)	85692	19.7185	718
100 Dibenzo(a,h)anthracene	278	16.509	16.507	(1.134)	73586	20.4303	744
101 Benzo(ghi)perylene	276	16.975	16.975	(1.166)	64210	16.8587	614
1 N-Methyl-N-nitrosomethylamine	74	2.556	2.546	(0.550)	51127	11.8660	432 (R)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.

Data File: /chem/MSD6.i/5021610.b/sdb1633.d
 Date: 17-FEB-2010 01:39
 Client ID: REL6-10-10123MS
 Sample Info: 11202036799/95044711SVN11MS
 Volume Injected (uL): 0.5
 Column phase: J&W DB-5MS

Instrument: MSD6.i
 Operator: nag1
 Column diameter: 0.20



Data File: /chem/MSD6.i/s021710.b/s6b1726.d
 Report Date: 18-Feb-2010 09:13

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GEL Laboratories LLC

Data file : /chem/MSD6.i/s021710.b/s6b1726.d
 Lab Smp Id: 1202036800 Client Smp ID: RE16-10-10123MSD
 Inj Date : 17-FEB-2010 23:10
 Operator : nagl Inst ID: MSD6.i
 Smp Info : |1202036800|950447|1|SVM|1|MSD
 Misc Info : |MSD8270_S|WBN100205-01
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD6.i/s021710.b/MSD6-M8270C-AQA-110909.m
 Meth Date : 17-Feb-2010 20:52 llo00884 Quant Type: ISTD
 Cal Date : 11-NOV-2009 04:38 Cal File: s6k0954.d
 Als bottle: 26 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1562.sub
 Target Version: 3.50
 Processing Host: hpclpl

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	8.59300	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN	FINAL
	----	--	-----	-----	(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	4.597	4.599 (1.000)	359396	40.0000	
* 29 Naphthalene-d8	136	5.863	5.868 (1.000)	1389655	40.0000	
* 46 Acenaphthene-d10	164	7.726	7.728 (1.000)	764957	40.0000	
* 67 Phenanthrene-d10	188	9.331	9.334 (1.000)	1299984	40.0000	
* 91 Chrysene-d12	240	12.274	12.277 (1.000)	874851	40.0000	
* 98 Perylene-d12	264	14.466	14.476 (1.000)	466853	40.0000	
\$ 3 2-Fluorophenol	112	3.458	3.455 (0.752)	230663	25.6290	934 (R)
\$ 5 Phenol-d5	99	4.225	4.230 (0.919)	359073	31.6104	1150 (R)
\$ 20 Nitrobenzene-d5	82	5.132	5.137 (0.875)	128509	13.0727	476 (R)
\$ 39 2-Fluorobiphenyl	172	6.989	6.992 (0.905)	364316	18.4805	673
\$ 60 2,4,6-Tribromophenol	329	8.574	8.577 (1.110)	107952	48.3504	1760
\$ 81 p-Terphenyl-d14	244	11.033	11.038 (0.899)	437713	31.0249	1130

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
6 Phenol		94	4.237	4.243	(0.922)	195037	17.0762	622 (Q)
8 2-Chlorophenol		128	4.403	4.406	(0.958)	145836	15.8960	579
11 1,4-Dichlorobenzene		146	4.615	4.617	(1.004)	118659	11.0828	404
17 N-Nitrosodipropylamine		70	4.964	4.976	(1.080)	107821	16.9339	617 (Q)
28 1,2,4-Trichlorobenzene		180	5.797	5.802	(0.989)	149546	17.7423	646
33 4-Chloro-3-methylphenol		107	6.436	6.429	(1.098)	173939	25.0879	914
47 Acenaphthene		154	7.759	7.764	(1.004)	379954	22.0386	803
50 2,4-Dinitrotoluene		165	7.927	7.932	(1.026)	141170	23.9189	871
52 4-Nitrophenol		139	7.866	7.861	(1.018)	27509	14.4238	525
65 Pentachlorophenol		266	9.122	9.120	(0.978)	60006	23.9009	871
79 Pyrene		202	10.885	10.891	(0.887)	736929	30.6251	1120
2 Fyridine		79	2.563	2.543	(0.558)	72564	9.52865	347 (a)
4 Aniline		66	4.291	4.296	(0.933)	60477	12.7596	465 (Q)
7 bis(2-Chloroethyl) ether		63	4.329	4.337	(0.942)	85446	11.0477	402
9 1,3-Dichlorobenzene		146	4.546	4.548	(0.989)	115627	10.9477	399
12 Benzyl alcohol		108	4.717	4.719	(1.026)	58022	10.1799	371
13 1,2-Dichlorobenzene		146	4.757	4.762	(1.035)	127453	12.7530	464
14 bis(2-Chloroisopropyl)ether		45	4.834	4.836	(1.052)	243571	14.1058	514
15 o-Cresol		107	4.808	4.811	(1.046)	142874	19.1266	697
18 m,p-Cresols		107	4.953	4.966	(1.078)	192723	20.3612	742
19 Hexachloroethane		117	5.086	5.089	(1.106)	54407	13.1354	478
21 Nitrobenzene		77	5.150	5.157	(0.878)	138908	14.0199	511
22 Isophorone		82	5.382	5.392	(0.918)	343828	19.5776	713
23 2-Nitrophenol		139	5.468	5.471	(0.933)	75027	16.4171	598
24 2,4-Dimethylphenol		122	5.489	5.494	(0.936)	155666	20.5582	749
25 bis(2-Chloroethoxy)methane		93	5.588	5.591	(0.953)	164723	15.9379	581
26 2,4-Dichlorophenol		162	5.713	5.715	(0.974)	158937	23.1421	843
27 Benzoic acid		105	5.588	5.616	(0.953)	75841	16.2271	591 (aH)
30 Naphthalene		128	5.886	5.889	(1.004)	438683	15.8251	576
31 4-Chloroaniline		127	5.935	5.935	(1.012)	137855	15.4725	564
32 Hexachlorobutadiene		225	5.996	6.001	(1.023)	87131	19.8511	723
34 2-Methylnaphthalene		142	6.607	6.610	(1.127)	352082	21.0476	767
36 Hexachlorocyclopentadiene		237	6.763	6.765	(0.875)	23442	7.58687	276 (a)
37 2,4,6-Trichlorophenol		196	6.905	6.905	(0.894)	127541	24.4347	890
38 2,4,5-Trichlorophenol		196	6.949	6.946	(0.899)	135290	24.3384	887
40 2-Chloronaphthalene		162	7.127	7.130	(0.922)	383374	22.3158	813
42 o-Nitroaniline		65	7.234	7.239	(0.936)	126485	21.5212	784
41 m-Nitroaniline		138	7.677	7.683	(0.994)	77853	18.0956	659
43 Dimethylphthalate		163	7.418	7.428	(0.960)	482026	24.5642	895
44 2,6-Dinitrotoluene		165	7.491	7.499	(0.970)	106756	22.8085	831
45 Acenaphthylene		152	7.573	7.578	(0.980)	639863	23.1648	844
48 2,4-Dinitrophenol		184	7.797	7.797	(1.009)	17044	21.3176	777
49 Dibenzofuran		168	7.942	7.948	(1.028)	546573	23.4866	856
51 Diethylphthalate		149	8.172	8.177	(1.058)	511005	25.8584	942
53 Fluorene		166	8.312	8.317	(1.076)	479197	25.0877	914
54 4-Chlorophenylphenylether		204	8.302	8.304	(1.075)	223908	24.8098	904
55 2-Methyl-4,6-dinitrophenol		198	8.368	8.373	(0.897)	58788	23.8691	870

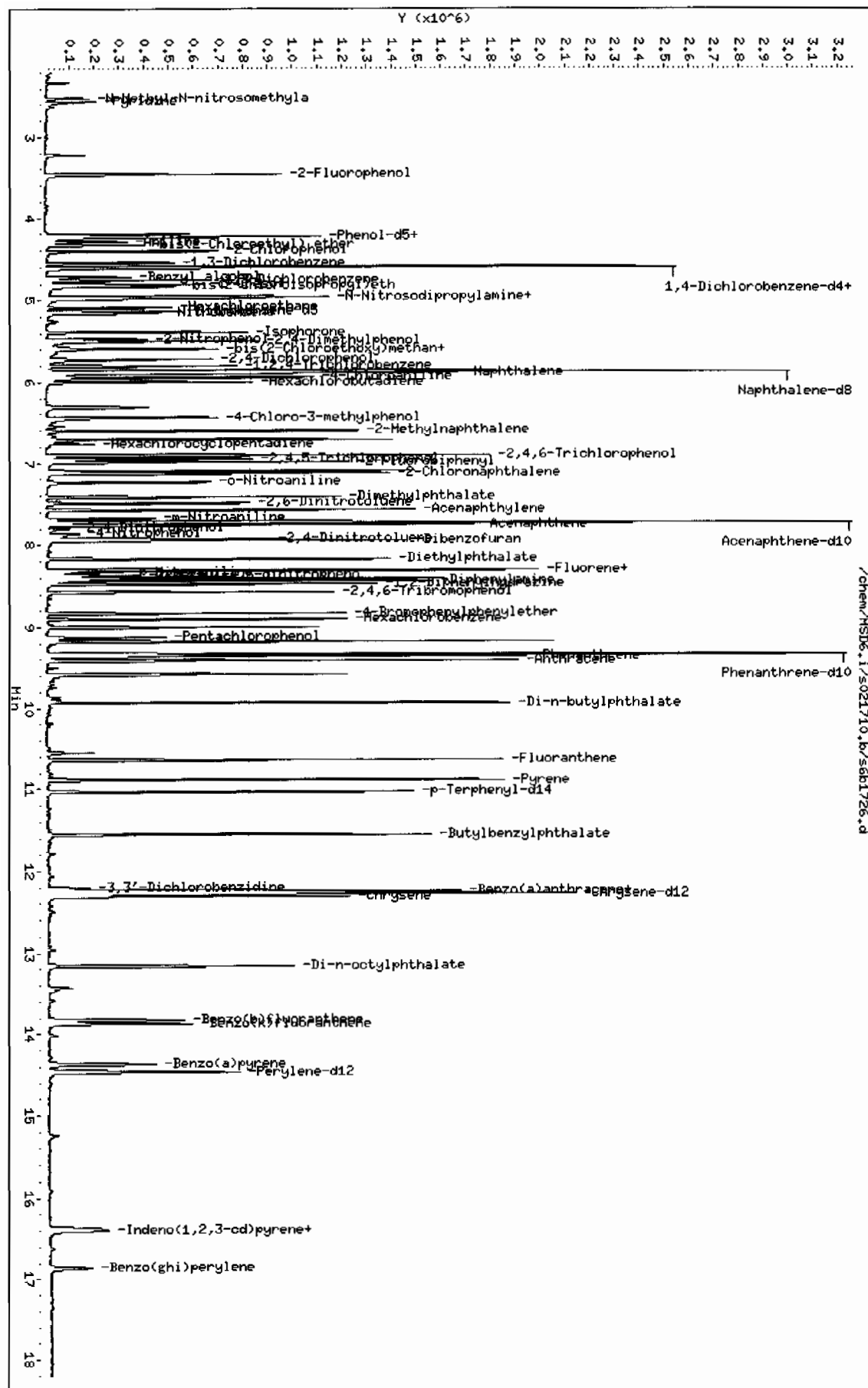
Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
56 p-Nitroaniline		138	8.337	8.343	(1.079)	62304	19.8343	722
133 Diphenylamine		169	8.432	8.437	(0.904)	391606	24.9921	910
58 1,2-Diphenylhydrazine		77	8.475	8.480	(0.908)	498119	24.9922	910
61 4-Bromophenylphenylether		248	8.832	8.834	(0.946)	131912	25.7155	937
63 Hexachlorobenzene		284	8.906	8.908	(0.954)	147775	27.5024	1000
68 Phenanthrene		178	9.357	9.359	(1.003)	738416	27.4666	1000
69 Anthracene		178	9.410	9.413	(1.008)	712177	26.5031	966
72 Di-n-butylphthalate		149	9.930	9.933	(1.064)	877569	28.4375	1040
76 Fluoranthene		202	10.638	10.641	(1.140)	737149	28.6235	1040
85 Butylbenzylphthalate		149	11.553	11.558	(0.941)	347256	31.5335	1150
89 Benzo(a)anthracene		228	12.254	12.259	(0.998)	500154	26.4982	965
90 3,3'-Dichlorobenzidine		252	12.205	12.205	(0.994)	45129	7.30364	266(a)
92 Chrysene		228	12.305	12.310	(1.002)	486266	26.8873	980
93 bis(2-Ethylhexyl)phthalate		149	12.236	12.241	(0.997)	464006	30.6753	1120
94 Di-n-octylphthalate		149	13.161	13.166	(0.910)	663720	44.7328	1630
95 Benzo(b)fluoranthene		252	13.823	13.836	(0.956)	344337	33.3337	1210
96 Benzo(k)fluoranthene		252	13.869	13.880	(0.959)	331294	32.2521	1170
97 Benzo(a)pyrene		252	14.369	14.379	(0.993)	273496	30.6529	1120
99 Indeno(1,2,3-cd)pyrene		276	16.369	16.384	(1.132)	175488	22.1254	806
100 Dibenzo(a,h)anthracene		278	16.397	16.412	(1.134)	139712	21.5092	784
101 Benzo(ghi)perylene		276	16.858	16.876	(1.165)	134701	19.7614	720(Q)
1 N-Methyl-N-nitrosomethylamine		74	2.518	2.507	(0.548)	53069	8.67353	316(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- H - Operator selected an alternate compound hit.

Data File: /chem/HSD6.i/s021710.b/sb01726.d
 Date: 17-FEB-2010 23:10
 Client ID: REL6-10-10123MSD
 Sample Info: 11202036800195044711.SW11.HSD
 Volume Injected (uL): 0.5
 Column phase: 3M DB-5MS

Instrument: HSD6.i
 Operator: nag1
 Column diameter: 0.20



Data File: /chem/MSD4.i/s021810a.b/s4b1846.d
Report Date: 19-Feb-2010 10:45

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Data file : /chem/MSD4.i/s021810a.b/s4b1846.d
Lab Smp Id: 1202046052 Client Smp ID: WST15-10-8940MS
Inj Date : 19-FEB-2010 03:21
Operator : JMB3 Inst ID: MSD4.i
Smp Info : |1202046052|954451|1|SVM|1|MS
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/s021810a.b/MSD4-M8270C-AQA-021710.m
Meth Date : 19-Feb-2010 09:39 jos00786 Quant Type: ISTD
Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
Als bottle: 28 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1821.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	6.19230	% 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	3.935	3.936	(1.000)	154486	40.0000	
* 29 Naphthalene-d8	136	4.807	4.807	(1.000)	649811	40.0000	
* 46 Acenaphthene-d10	164	6.059	6.064	(1.000)	323739	40.0000	
* 67 Phenanthrene-d10	188	7.054	7.054	(1.000)	493095	40.0000	
* 91 Chrysene-d12	240	8.760	8.776	(1.000)	381763	40.0000	
* 98 Perylene-d12	264	10.300	10.322	(1.000)	246504	40.0000	
\$ 3 2-Fluorophenol	112	3.160	3.117	(0.803)	26807	6.08967	216(R)
\$ 5 Phenol-d5	99	3.652	3.647	(0.928)	154280	27.8975	990(R)
\$ 20 Nitrobenzene-d5	82	4.299	4.305	(0.894)	127190	25.4887	905
\$ 39 2-Fluorobiphenyl	172	5.551	5.551	(0.916)	251152	30.0455	1070
\$ 60 2,4,6-Tribromophenol	329	6.599	6.599	(1.089)	1353	1.33634	47.4 (QR)
\$ 81 p-Terphenyl-d14	244	7.979	7.984	(0.911)	247165	41.4165	1470

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
6 Phenol	94	3.657	3.657	(0.929)	63534	11.3018	401(R)
8 2-Chlorophenol	128	3.802	3.802	(0.966)	9676	2.09958	74.5(aR)
11 1,4-Dichlorobenzene	146	3.946	3.946	(1.003)	98104	21.3111	756
17 N-Nitrosodipropylamine	70	4.171	4.176	(1.060)	90846	28.8430	1020(Q)
28 1,2,4-Trichlorobenzene	180	4.754	4.754	(0.989)	85440	22.6973	806
33 4-Chloro-3-methylphenol	107	5.155	5.150	(1.072)	29254	7.81221	277(aR)
47 Acenaphthene	154	6.086	6.086	(1.004)	204310	24.7666	879
50 2,4-Dinitrotoluene	165	6.166	6.171	(1.018)	78449	29.4130	1040
79 Pyrene	202	7.931	7.936	(0.905)	398967	38.3446	1360
2 Pyridine	79	2.486	2.454	(0.632)	83688	18.8454	669
4 Aniline	66	3.721	3.722	(0.946)	62249	28.5544	1010(Q)
7 bis(2-Chloroethyl) ether	63	3.732	3.738	(0.948)	79960	24.1435	857(Q)
9 1,3-Dichlorobenzene	146	3.903	3.903	(0.992)	93101	20.2696	720
12 Benzyl alcohol	108	4.005	4.005	(1.018)	66846	26.1794	929
13 1,2-Dichlorobenzene	146	4.048	4.053	(1.029)	94945	22.6473	804
14 bis(2-Chloroisopropyl) ether	45	4.074	4.080	(1.035)	156442	25.2493	896
15 o-Cresol	107	4.058	4.053	(1.031)	82605	24.4108	866
18 m,p-Cresols	107	4.155	4.155	(1.056)	83702	18.1723	645
19 Hexachloroethane	117	4.278	4.283	(1.087)	32767	18.9573	673
21 Nitrobenzene	77	4.315	4.315	(0.898)	116363	24.1119	856
22 Isophorone	82	4.465	4.470	(0.929)	248167	24.6598	875
24 2,4-Dimethylphenol	122	4.518	4.519	(0.940)	87256	20.5153	728
25 bis(2-Chloroethoxy) methane	93	4.583	4.588	(0.953)	149329	24.7903	880
30 Naphthalene	128	4.823	4.823	(1.003)	331075	22.2468	790
31 4-Chloroaniline	127	4.839	4.839	(1.007)	184538	27.6228	980
32 Hexachlorobutadiene	225	4.882	4.882	(1.016)	40025	21.3973	760
34 2-Methylnaphthalene	142	5.305	5.305	(1.103)	223723	25.6481	910
36 Hexachlorocyclopentadiene	237	5.401	5.406	(0.891)	14923	9.84148	349(aR)
40 2-Chloronaphthalene	162	5.658	5.663	(0.934)	212232	27.3069	969
42 o-Nitroaniline	65	5.722	5.717	(0.944)	67811	31.5147	1120
41 m-Nitroaniline	138	6.011	6.016	(0.992)	73024	36.2902	1290
43 Dimethylphthalate	163	5.823	5.829	(0.961)	259179	30.2497	1070
44 2,6-Dinitrotoluene	165	5.882	5.888	(0.971)	59587	29.1594	1040
45 Acenaphthylene	152	5.963	5.968	(0.984)	358393	30.3022	1080
49 Dibenzofuran	168	6.198	6.203	(1.023)	312215	30.6091	1090
51 Diethylphthalate	149	6.305	6.310	(1.041)	248668	30.8341	1090
53 Fluorene	166	6.439	6.439	(1.063)	236048	26.2718	933
54 4-Chlorophenylphenylether	204	6.412	6.417	(1.058)	116283	30.2669	1070
56 p-Nitroaniline	138	6.439	6.439	(1.063)	66171	42.2935	1500
133 Diphenylamine	169	6.492	6.492	(0.920)	231408	35.4630	1260
58 1,2-Diphenylhydrazine	77	6.524	6.524	(0.925)	293030	34.4396	1220
61 4-Bromophenylphenylether	248	6.743	6.744	(0.956)	66658	30.9047	1100
63 Hexachlorobenzene	284	6.797	6.802	(0.964)	71906	30.8966	1100
68 Phenanthrene	178	7.070	7.070	(1.002)	411953	33.8607	1200
69 Anthracene	178	7.102	7.102	(1.007)	371361	30.0515	1070
72 Di-n-butylphthalate	149	7.343	7.343	(1.041)	424222	31.7977	1130
76 Fluoranthene	202	7.786	7.792	(1.104)	414003	36.3379	1290

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
85 Butylbenzylphthalate	149	8.246	8.257	(0.941)	152980	34.6451	1230
89 Benzo(a)anthracene	228	8.744	8.760	(0.998)	303420	33.9191	1200
90 3,3'-Dichlorobenzidine	252	8.685	8.680	(0.991)	77491	30.2167	1070
92 Chrysene	228	8.781	8.797	(1.002)	288833	32.0932	1140
93 bis(2-Ethylhexyl)phthalate	149	8.621	8.637	(0.984)	245117	38.7290	1370
94 Di-n-octylphthalate	149	9.182	9.204	(0.891)	369713	50.1487	1780
95 Benzo(b)fluoranthene	252	9.803	9.824	(0.952)	213246	36.6707	1300(H)
96 Benzo(k)fluoranthene	252	9.835	9.856	(0.955)	210448	35.7667	1270
97 Benzo(a)pyrene	252	10.225	10.247	(0.993)	168713	33.9460	1200
99 Indeno(1,2,3-cd)pyrene	276	12.039	12.071	(1.169)	118668	26.5985	944
100 Dibenzo(a,h)anthracene	278	12.049	12.081	(1.170)	99836	27.1861	965
101 Benzo(ghi)perylene	276	12.584	12.616	(1.222)	91459	24.8700	883
1 N-Methyl-N-nitrosomethylamine	74	2.448	2.427	(0.622)	67477	21.2849	756

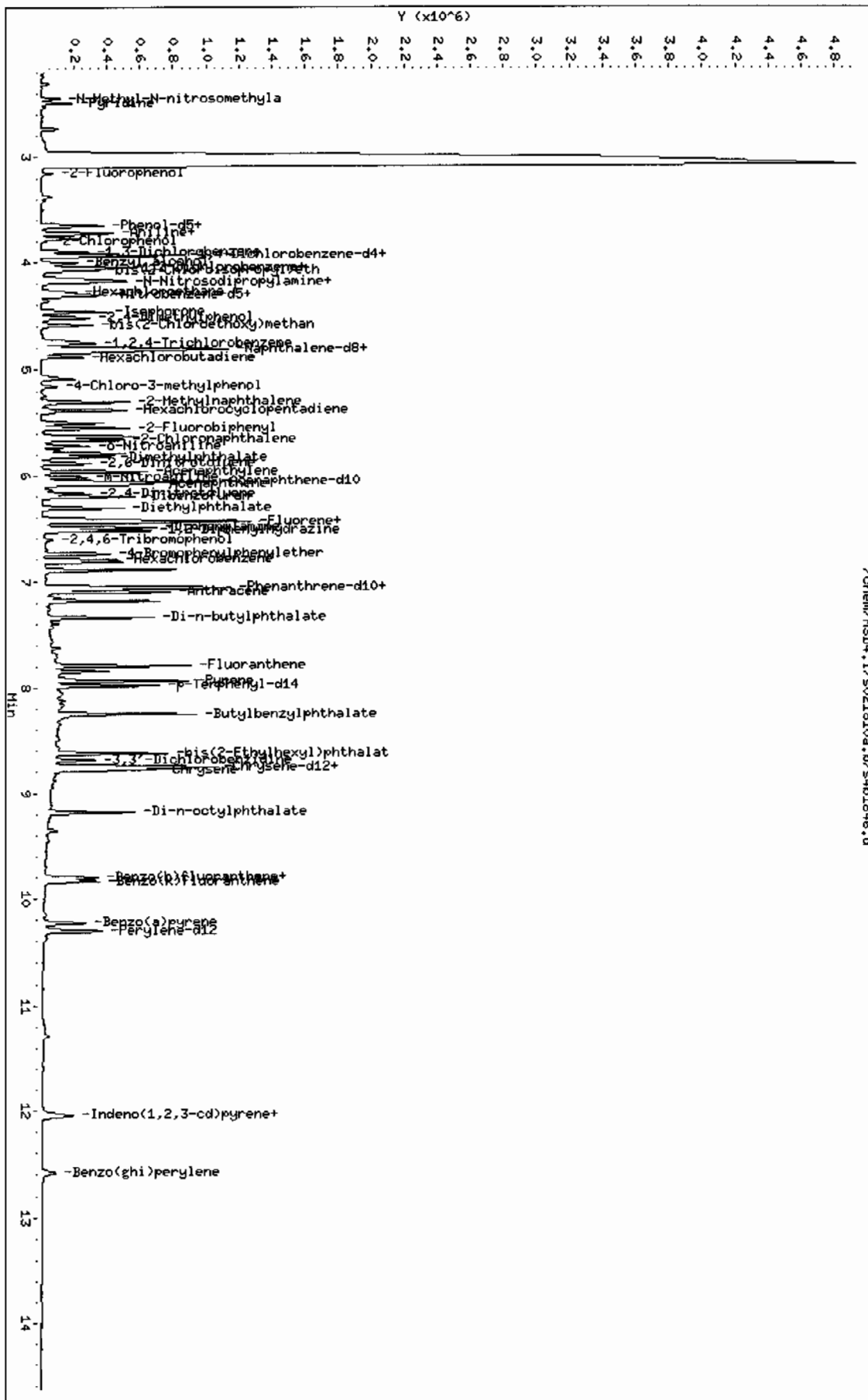
QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- H - Operator selected an alternate compound hit.

Data File: /chem/HSD4.i/s021810a.b/s4b1846.d
 Date: 19-FEB-2010 03:21
 Client ID: MST15-10-8940HS
 Sample Info: 11202046052195445111SVH11HS
 Volume Injected (uL): 0.5
 Column phase: J&W DB-5MS

Instrument: HSD4.i
 Operator: JMB3
 Column diameter: 0.20

/chem/HSD4.i/s021810a.b/s4b1846.d



Data File: /chem/MSD4.i/s021810a.b/s4b1847.d
 Report Date: 19-Feb-2010 10:45

Page 1

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Data file : /chem/MSD4.i/s021810a.b/s4b1847.d
 Lab Smp Id: 1202046053 Client Smp ID: WST15-10-8940MSD
 Inj Date : 19-FEB-2010 03:43
 Operator : JMB3 Inst ID: MSD4.i
 Smp Info : |1202046053|954451|1|SVM|1|MSD
 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/s021810a.b/MSD4-M8270C-AQA-021710.m
 Meth Date : 19-Feb-2010 09:39 jos00786 Quant Type: ISTD
 Cal Date : 17-FEB-2010 18:13 Cal File: s4b1705.d
 Als bottle: 29 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1821.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	6.19230	% 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	3.941	3.936	(1.000)	133758	40.0000	
* 29 Naphthalene-d8	136	4.807	4.807	(1.000)	574879	40.0000	
* 46 Acenaphthene-d10	164	6.059	6.064	(1.000)	288711	40.0000	
* 67 Phenanthrene-d10	188	7.054	7.054	(1.000)	448685	40.0000	
* 91 Chrysene-d12	240	8.754	8.776	(1.000)	343177	40.0000	
* 98 Perylene-d12	264	10.300	10.322	(1.000)	240476	40.0000	
\$ 3 2-Fluorophenol	112	3.170	3.117	(0.805)	16039	4.20816	149 (R)
\$ 5 Phenol-d5	99	3.652	3.647	(0.927)	118367	24.7204	878 (R)
\$ 20 Nitrobenzene-d5	82	4.304	4.305	(0.895)	112738	25.5374	907
\$ 39 2-Fluorobiphenyl	172	5.551	5.551	(0.916)	226938	30.4426	1080
\$ 60 2,4,6-Tribromophenol	329	6.599	6.599	(1.089)	734	0.81292	28.9 (QR)
\$ 81 p-Terphenyl-d14	244	7.973	7.984	(0.911)	212422	39.5970	1410

Compounds	QUANT SIG			EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS	RT					ON-COLUMN	FINAL
-----	----	---		-----	-----	-----	(ng/ul)	(ug/Kg)
6 Phenol	94	3.663		3.657 (0.929)		50380	10.3507	368 (R)
11 1,4-Dichlorobenzene	146	3.951		3.946 (1.003)		91598	22.9813	816
17 N-Nitrosodipropylamine	70	4.171		4.176 (1.058)		80812	29.6333	1050 (Q)
28 1,2,4-Trichlorobenzene	180	4.754		4.754 (0.989)		79400	23.8421	847
33 4-Chloro-3-methylphenol	107	5.155		5.150 (1.072)		21620	6.52612	232 (aR)
47 Acenaphthene	154	6.085		6.086 (1.004)		185423	25.2041	895
50 2,4-Dinitrotoluene	165	6.166		6.171 (1.018)		65897	27.7044	984
79 Pyrene	202	7.925		7.936 (0.905)		355802	38.0409	1350
2 Pyridine	79	2.480		2.454 (0.629)		73386	19.0864	678
4 Aniline	66	3.727		3.722 (0.946)		55483	29.3947	1040 (Q)
7 bis(2-Chloroethyl) ether	63	3.737		3.738 (0.948)		72439	25.2621	897 (Q)
9 1,3-Dichlorobenzene	146	3.903		3.903 (0.990)		87329	21.9593	780
12 Benzyl alcohol	108	4.010		4.005 (1.018)		53771	24.3222	864
13 1,2-Dichlorobenzene	146	4.053		4.053 (1.028)		88145	24.2835	862
14 bis(2-Chloroisopropyl) ether	45	4.080		4.080 (1.035)		144000	26.8428	953
15 o-Cresol	107	4.058		4.053 (1.030)		71649	24.4543	868
18 m,p-Cresols	107	4.155		4.155 (1.054)		71698	17.9783	638
19 Hexachloroethane	117	4.283		4.283 (1.087)		29276	19.5623	695
21 Nitrobenzene	77	4.315		4.315 (0.898)		105839	24.7898	880
22 Isophorone	82	4.465		4.470 (0.929)		222456	24.9862	887
24 2,4-Dimethylphenol	122	4.518		4.519 (0.940)		74251	19.7331	701
25 bis(2-Chloroethoxy) methane	93	4.588		4.588 (0.954)		138910	26.0664	926
30 Naphthalene	128	4.823		4.823 (1.003)		307902	23.3865	830
31 4-Chloroaniline	127	4.839		4.839 (1.007)		171005	28.9335	1030
32 Hexachlorobutadiene	225	4.882		4.882 (1.016)		37212	22.4864	798
34 2-Methylnaphthalene	142	5.305		5.305 (1.103)		204417	26.4895	941
36 Hexachlorocyclopentadiene	237	5.406		5.406 (0.892)		8878	6.56525	233 (aR)
40 2-Chloronaphthalene	162	5.663		5.663 (0.935)		196774	28.3897	1010
42 o-Nitroaniline	65	5.722		5.717 (0.944)		58996	30.7445	1090
41 m-Nitroaniline	138	6.011		6.016 (0.992)		61931	34.6586	1230
43 Dimethylphthalate	163	5.823		5.829 (0.961)		236175	30.9092	1100
44 2,6-Dinitrotoluene	165	5.882		5.888 (0.971)		52558	28.8402	1020
45 Acenaphthylene	152	5.962		5.968 (0.984)		326902	30.9930	1100
49 Dibenzofuran	168	6.198		6.203 (1.023)		278737	30.6424	1090
51 Diethylphthalate	149	6.305		6.310 (1.041)		223906	31.1321	1100
53 Fluorene	166	6.438		6.439 (1.063)		218814	27.3084	970
54 4-Chlorophenylphenylether	204	6.412		6.417 (1.058)		102870	30.0243	1070
56 p-Nitroaniline	138	6.438		6.439 (1.063)		56790	40.7014	1440
133 Diphenylamine	169	6.492		6.492 (0.920)		202941	34.1787	1210
58 1,2-Diphenylhydrazine	77	6.524		6.524 (0.925)		252787	32.6505	1160
61 4-Bromophenylphenylether	248	6.743		6.744 (0.956)		58918	30.0199	1070
63 Hexachlorobenzene	284	6.797		6.802 (0.964)		64033	30.2370	1070
68 Phenanthrene	178	7.070		7.070 (1.002)		363553	32.8401	1170
69 Anthracene	178	7.102		7.102 (1.007)		322426	28.6741	1020
72 Di-n-butylphthalate	149	7.337		7.343 (1.040)		383238	31.5690	1120
76 Fluoranthene	202	7.786		7.792 (1.104)		357599	34.4939	1220
85 Butylbenzylphthalate	149	8.246		8.257 (0.942)		136714	34.4426	1220

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
89 Benzo(a)anthracene	228	8.744	8.760	(0.999)	257174	31.9818	1140 (H)
90 3,3'-Dichlorobenzidine	252	8.680	8.680	(0.991)	70505	30.5838	1090
92 Chrysene	228	8.776	8.797	(1.002)	262039	32.3898	1150
93 bis(2-Ethylhexyl)phthalate	149	8.615	8.637	(0.984)	221481	38.9291	1380
94 Di-n-octylphthalate	149	9.177	9.204	(0.891)	323362	44.9610	1600
95 Benzo(b)fluoranthene	252	9.803	9.824	(0.952)	211833	37.3408	1320 (H)
96 Benzo(k)fluoranthene	252	9.829	9.856	(0.954)	179909	31.3429	1110
97 Benzo(a)pyrene	252	10.225	10.247	(0.993)	156429	32.2634	1140
99 Indeno(1,2,3-cd)pyrene	276	12.033	12.071	(1.168)	117460	26.9877	958
100 Dibenzo(a,h)anthracene	278	12.044	12.081	(1.169)	99465	27.7640	986
101 Benzo(ghi)perylene	276	12.579	12.616	(1.221)	90241	25.1539	893
1 N-Methyl-N-nitrosomethylamine	74	2.438	2.427	(0.619)	58696	21.3843	759

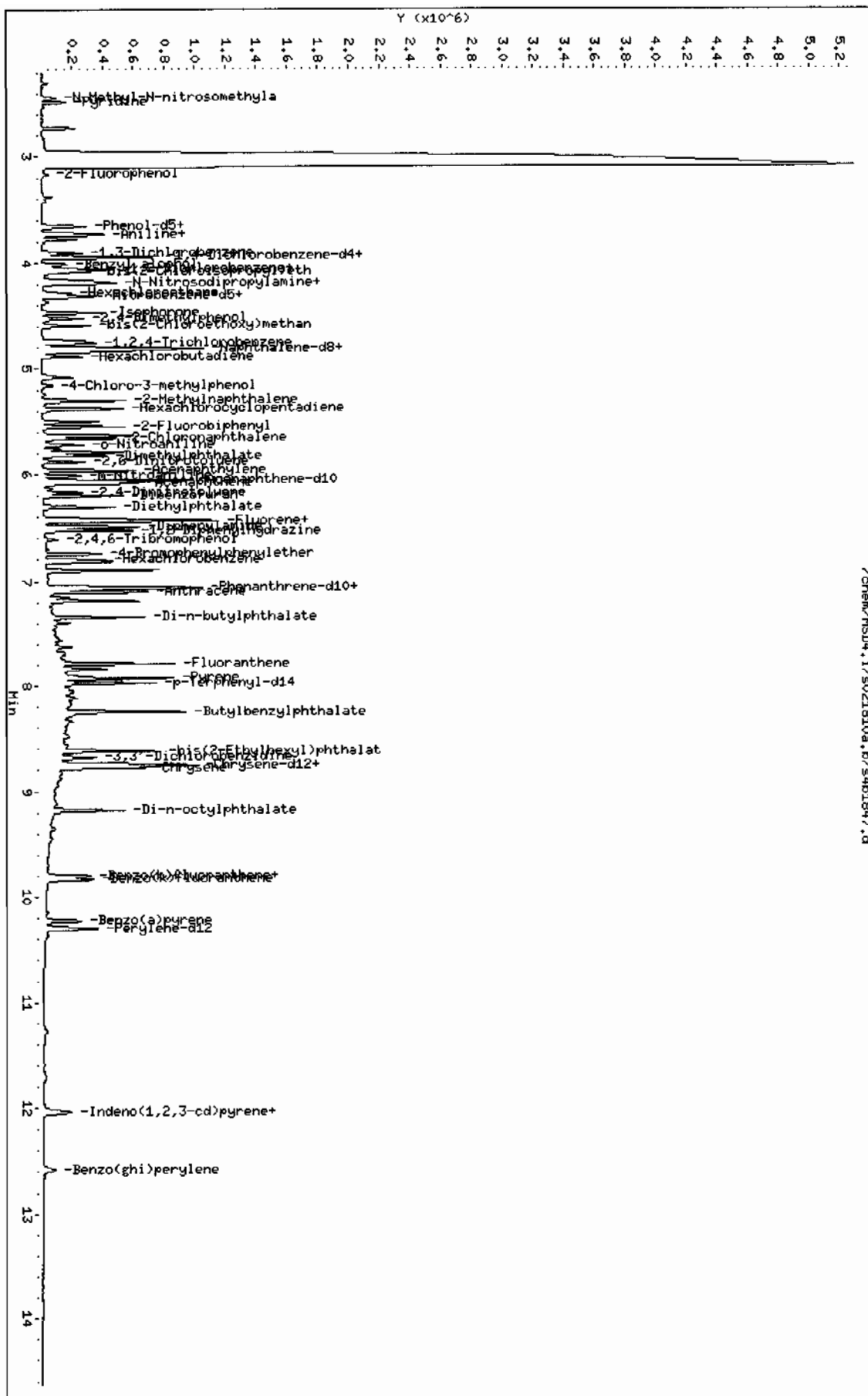
QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- H - Operator selected an alternate compound hit.

Data File: /chem/HSD4.1/s021810a.b/s4b1847.d
 Date: 19-FEB-2010 03:43
 Client ID: MST15-10-8940HSD
 Sample Info: 11202046053195445111SVN111HSD
 Volume Injected (uL): 0.5
 Column phase: J&W DB-5MS

Instrument: MSD4.1
 Operator: JHB3
 Column diameter: 0.20

/chem/HSD4.1/s021810a.b/s4b1847.d



LC/MS/MS EXPLOSIVES ANALYSIS

**LC/MS/MS Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1567**

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: 950081

Prep Batch Number: 950080

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8321A Modified:

Sample ID	Client ID
246330002	RE15-10-8304
246330003	RE15-10-8305
246330004	RE15-10-8306
246330005	RE15-10-8307
246330006	RE15-10-8309
246330007	RE15-10-8308
246330008	RE15-10-8301
246330009	RE15-10-8300
246330010	RE15-10-8324
1202035678	Method Blank (MB)
1202035679	Laboratory Control Sample (LCS)
1202035680	246330002(RE15-10-8304) Matrix Spike (MS)
1202035681	246330002(RE15-10-8304) Matrix Spike Duplicate (MSD)

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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.

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 246330002 (RE15-10-8304) 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.

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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 246330002 (RE15-10-8304) 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.

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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:

Herbert M. Moore Date: 03/25/10

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SAMPLE DATA SUMMARY

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8304

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330002

Sample Amount 2

Moisture: 20.3

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312091.wiff

Date Analyzed: 13-MAR-10 23:36

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8304

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330002

Sample Amount 2

Moisture: 20.3

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010091.wiff

Date Analyzed: 02-MAR-10 08:39

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: RE15-10-8305

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330003

Sample Amount 2

Moisture: 38.4

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312094.wiff

Date Analyzed: 14-MAR-10 00:55

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8305

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330003

Sample Amount 2

Moisture: 38.4

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010094.wiff

Date Analyzed: 02-MAR-10 09:26

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: RE15-10-8306

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330004

Sample Amount 2

Moisture: 21.2

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312095.wiff

Date Analyzed: 14-MAR-10 01:21

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8306

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330004

Sample Amount 2

Moisture: 21.2

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010095.wiff

Date Analyzed: 02-MAR-10 09:42

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: RE15-10-8307

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330005

Sample Amount 2

Moisture: 14.4

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312096.wiff

Date Analyzed: 14-MAR-10 01:48

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8307

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330005

Sample Amount 2

Moisture: 14.4

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010096.wiff

Date Analyzed: 02-MAR-10 09:58

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: RE15-10-8309

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330006

Sample Amount 2

Moisture: 10.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312097.wiff

Date Analyzed: 14-MAR-10 03:14

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8309

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330006

Sample Amount 2

Moisture: 10.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010097.wiff

Date Analyzed: 02-MAR-10 10:14

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: RE15-10-8308

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330007

Sample Amount 2

Moisture: 27.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312098.wiff

Date Analyzed: 14-MAR-10 03:41

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8308

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330007

Sample Amount 2

Moisture: 27.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010098.wiff

Date Analyzed: 02-MAR-10 10:29

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: RE15-10-8301

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330008

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312102.wiff

Date Analyzed: 14-MAR-10 05:26

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8301

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330008

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010099.wiff

Date Analyzed: 02-MAR-10 10:45

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: RE15-10-8300

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330009

Sample Amount 2

Moisture: 30.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312103.wiff

Date Analyzed: 14-MAR-10 05:53

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8300

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330009

Sample Amount 2

Moisture: 30.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010103.wiff

Date Analyzed: 02-MAR-10 11:48

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: RE15-10-8324

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330010

Sample Amount 2

Moisture: 20.9

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312104.wiff

Date Analyzed: 14-MAR-10 06:19

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8324

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330010

Sample Amount 2

Moisture: 20.9

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010104.wiff

Date Analyzed: 02-MAR-10 12:04

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

QUALITY CONTROL SUMMARY

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
246330002	RE15-10-8304	100	70 - 144	
246330002	RE15-10-8304	103	70 - 144	
246330003	RE15-10-8305	96.8	70 - 144	
246330003	RE15-10-8305	99.2	70 - 144	
246330004	RE15-10-8306	94.4	70 - 144	
246330004	RE15-10-8306	98.8	70 - 144	
246330005	RE15-10-8307	93.2	70 - 144	
246330005	RE15-10-8307	97.6	70 - 144	
246330006	RE15-10-8309	99.6	70 - 144	
246330006	RE15-10-8309	98	70 - 144	
246330007	RE15-10-8308	98.8	70 - 144	
246330007	RE15-10-8308	98	70 - 144	
246330008	RE15-10-8301	100	70 - 144	
246330008	RE15-10-8301	99.2	70 - 144	
246330009	RE15-10-8300	74.4	70 - 144	
246330009	RE15-10-8300	101	70 - 144	
246330010	RE15-10-8324	102	70 - 144	
246330010	RE15-10-8324	100	70 - 144	
1202035678	MB for batch 950080	106	70 - 144	
1202035678	MB for batch 950080	105	70 - 144	
1202035679	LCS for batch 950080	75.6	70 - 144	
1202035679	LCS for batch 950080	96	70 - 144	
1202035680	RE15-10-8304(246330002MS)	92.8	70 - 144	
1202035680	RE15-10-8304(246330002MS)	97.2	70 - 144	
1202035681	RE15-10-8304(246330002MSD)	92	70 - 144	
1202035681	RE15-10-8304(246330002MSD)	97.6	70 - 144	

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) 10-1567

Extract Batch Code: 950080

Date Extracted: 15-FEB-10

GEL LCS ID: 1202035679

GEL LCSDUP ID:

Analysis Date/Time: 13-MAR-10 17:52

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
2,4,6-Trinitrotoluene	5000	4180	83.6					73 - 149
2,4-Dinitrotoluene	5000	4610	92.2					87 - 137
2,6-Dinitrotoluene	5000	4650	93					89 - 120
2-Amino-4,6-dinitrotoluene	5000	4700	94					90 - 130
4-Amino-2,6-dinitrotoluene	5000	4500	90					84 - 130
HMX	5000	4160	83.2					58 - 138
Nitrobenzene	5000	4670	93.4					71 - 122
1,3,5-Trinitrobenzene	5000	4220	84.4					69 - 126
PETN	5000	4680	93.6					64 - 137
RDX	5000	4830	96.6					81 - 137
Tetryl	5000	2930	58.6					51 - 112
m-Dinitrobenzene	5000	4390	87.8					83 - 122
m-Nitrotoluene	5000	3680	73.6					73 - 118
o-Nitrotoluene	5000	4420	88.4					72 - 119
p-Nitrotoluene	5000	4000	80					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) 10-1567

Extract Batch Code: 950080

Date Extracted: 15-FEB-10

GEL LCS ID: 1202035679

GEL LCSDUP ID:

Analysis Date/Time: 02-MAR-10 05:15

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	5460	109					52 - 114
2,6-Diamino-4-nitrotoluene	5000	5440	109					64 - 122
3,5-Dinitroaniline	5000	4980	99.6					70 - 127
tris(o-cresyl) phosphate	5000	4570	91.4					84 - 119
TATB	5000	5850	117					28 - 162

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: RE15-10-8304

Lab Code: GEL

GEL Job No (SDG) 10-1567

Extract Batch Code: 950080

Date Extracted: 15-FEB-10

GEL Spike ID: 1202035680

GEL SpikeDup ID: 1202035681

Analysis Date/Time: 14-MAR-10 00:02

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
1,3,5-Trinitrobenzene	5000	0	4350	87	4820	96.4	10.3	30	50 - 140
2,4,6-Trinitrotoluene	5000	0	4230	84.6	4480	89.6	5.74	30	76 - 144
2,4-Dinitrotoluene	5000	0	4690	93.8	4980	99.6	6	30	86 - 135
2,6-Dinitrotoluene	5000	0	4880	97.6	5440	109	10.9	30	90 - 118
2-Amino-4,6-dinitrotoluene	5000	0	4660	93.2	4950	99	6.04	30	85 - 137
4-Amino-2,6-dinitrotoluene	5000	0	4850	97	5110	102	5.22	30	72 - 143
HMX	5000	0	4320	86.4	4670	93.4	7.79	30	51 - 144
Nitrobenzene	5000	0	4260	85.2	4770	95.4	11.3	30	70 - 122
PETN	5000	0	5150	103	5320	106	3.25	30	60 - 140
RDX	5000	0	4530	90.6	4890	97.8	7.64	30	59 - 152
Tetryl	5000	0	3220	64.4	4210	84.2	26.6	30	36 - 124
m-Dinitrobenzene	5000	0	4680	93.6	5160	103	9.76	30	85 - 118
m-Nitrotoluene	5000	0	4750	95	4580	91.6	3.64	30	70 - 120
o-Nitrotoluene	5000	0	4500	90	4590	91.8	1.98	30	69 - 123
p-Nitrotoluene	5000	0	4430	88.6	4270	85.4	3.68	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: RE15-10-8304

Lab Code: GEL

GEL Job No (SDG) 10-1567

Extract Batch Code: 950080

Date Extracted: 15-FEB-10

GEL Spike ID: 1202035680

GEL SpikeDup ID: 1202035681

Analysis Date/Time: 02-MAR-10 08:55

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	4480	89.6	4430	88.6	1.12	26	34 - 135
2,6-Diamino-4-nitrotoluene	5000	0	5140	103	5310	106	3.25	30	55 - 130
3,5-Dinitroaniline	5000	0	4820	96.4	5000	100	3.67	30	73 - 129
TATB	5000	0	5410	108	5310	106	1.87	30	29 - 155
tris(o-cresyl) phosphate	5000	0	4660	93.2	4950	99	6.04	30	72 - 127

#Column to be used to flag recovery and RPD values with an asterisk

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Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 12-MAR--10 07:58

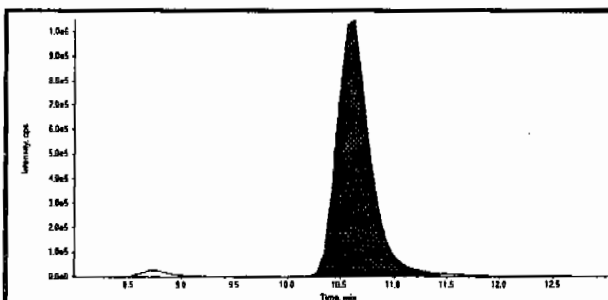
GEL Data File: EXP0312001.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

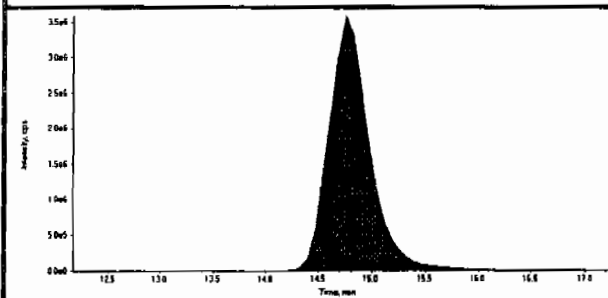
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
DNX	0	0
MXN	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Data File	EXP0312001.wiff	Acquisition Date	3/12/2010 7:58:58 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



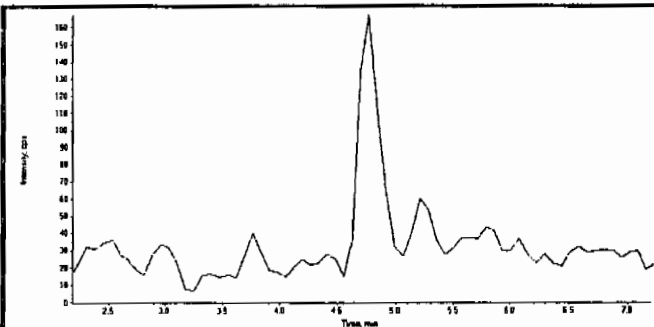
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	22900000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

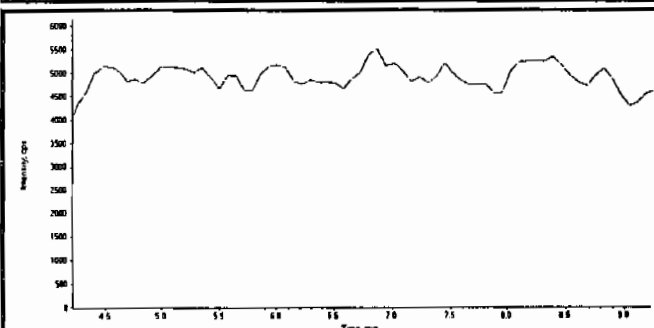


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	95900000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



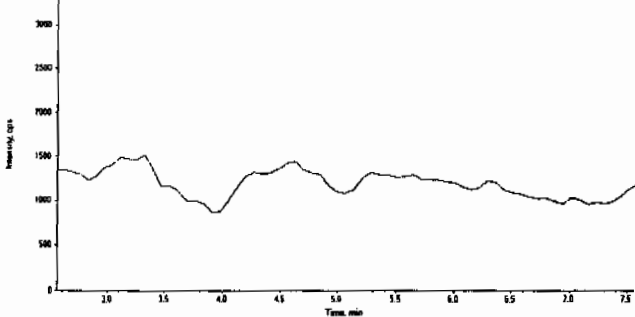
Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

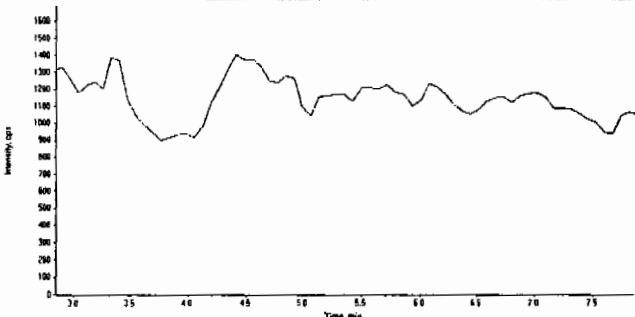


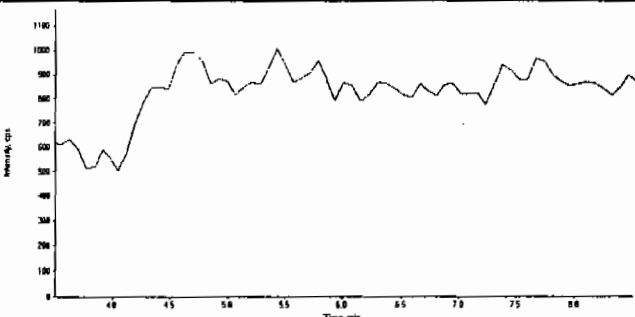
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

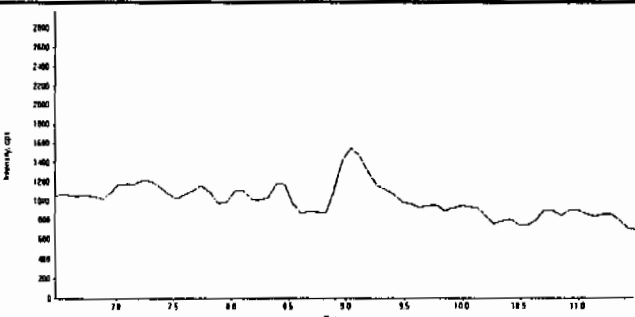
LER
3/24/10
HMM
03/24/10

Data File	EXP0312001.wiff	Acquisition Date	3/12/2010 7:58:58 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312001.wiff	Acquisition Date	3/12/2010 7:58:58 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

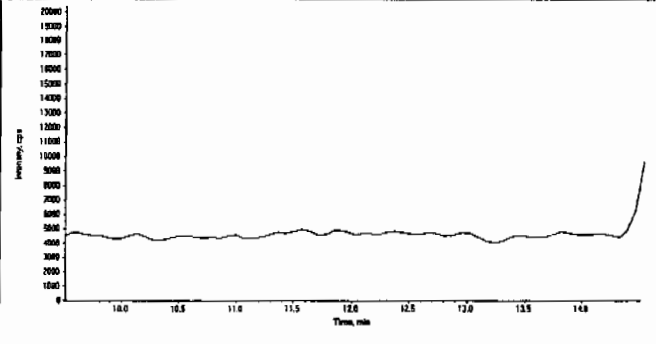
	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

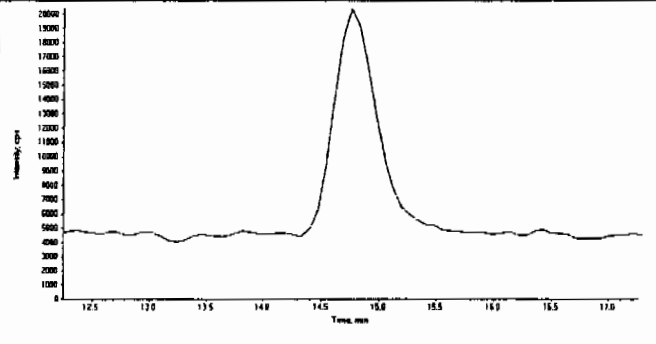
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

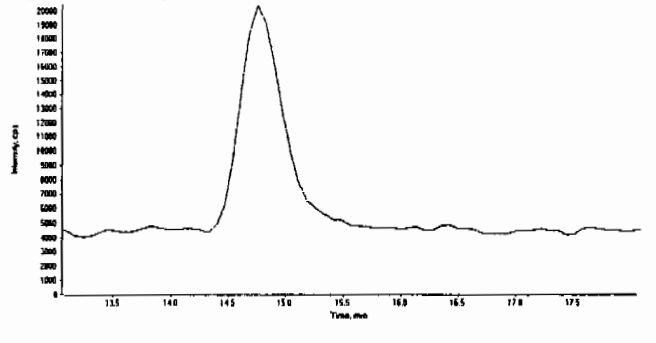
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

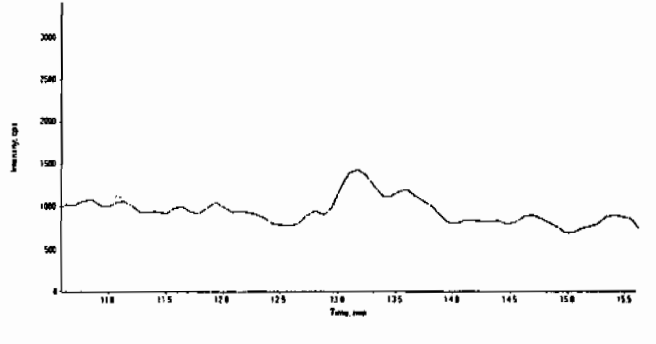
	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312001.wiff	Acquisition Date	3/12/2010 7:58:58 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	1 1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

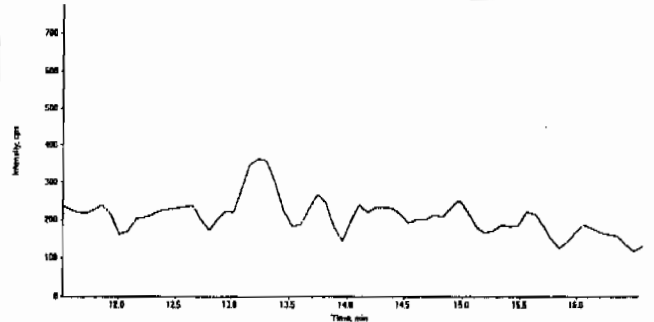
	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

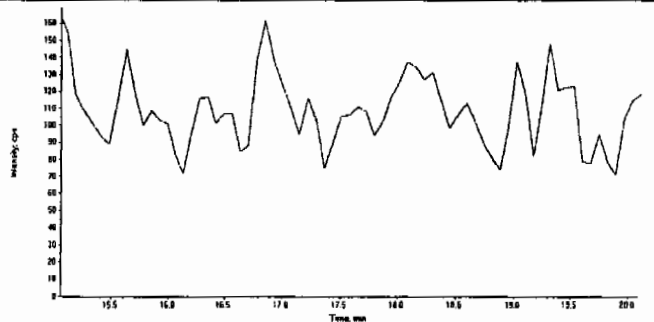
	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

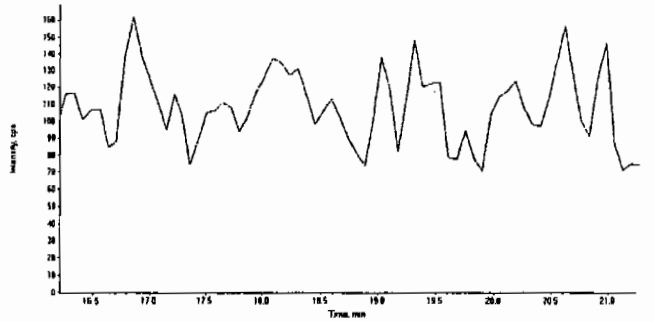
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

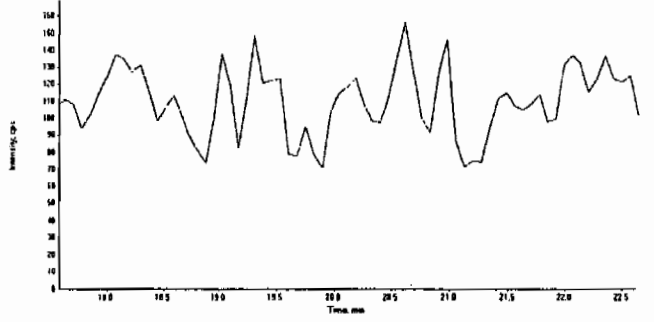
	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

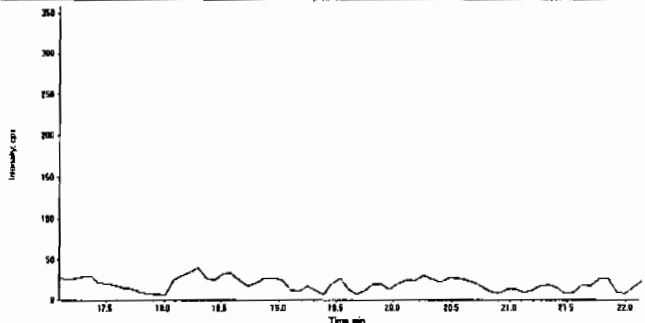
Data File	EXP0312001.wiff	Acquisition Date	3/12/2010 7:58:58 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312001.wiff	Acquisition Date	3/12/2010 7:58:58 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

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Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 12-MAR-10 08:25

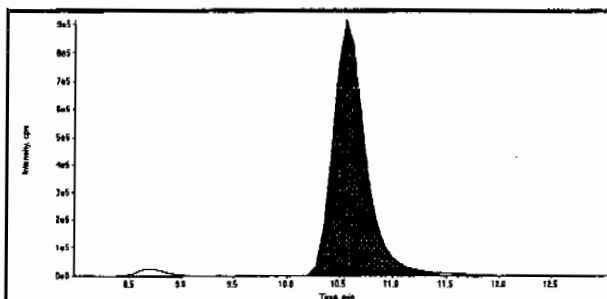
GEL Data File: EXP0312002.wiff

Instrument ID: LCMSMS

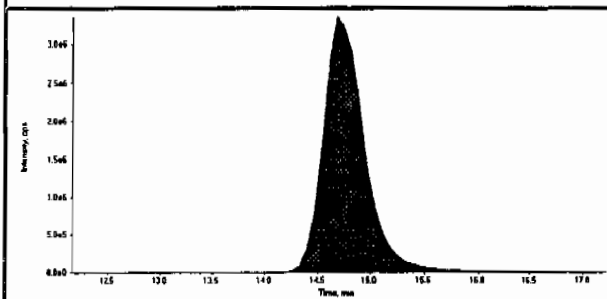
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
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
3,4-Dinitrotoluene	0	0
DNX	0	0
MX	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0

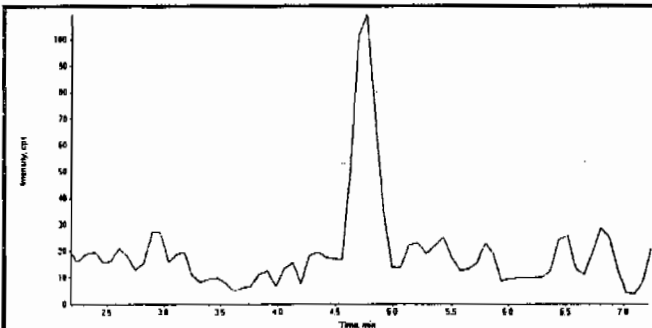
Data File	EXP0312002.wiff	Acquisition Date	3/12/2010 8:25:19 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



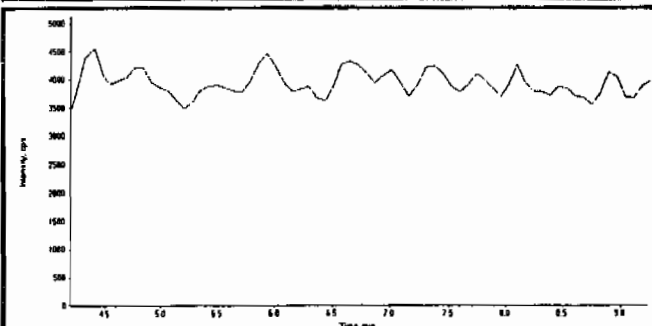
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	20100000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.70
Area Counts:	93700000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



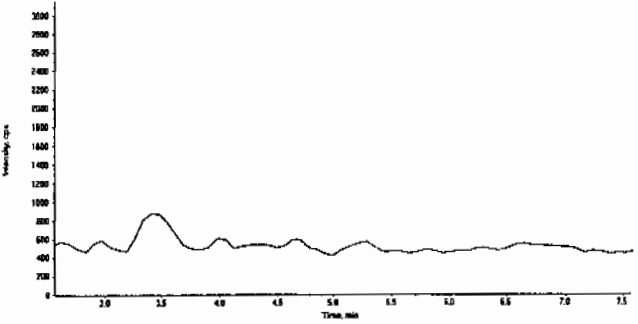
Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

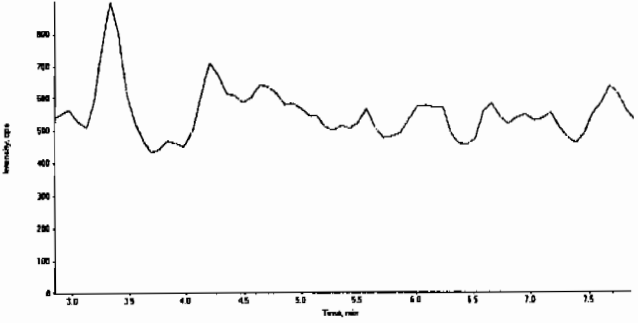


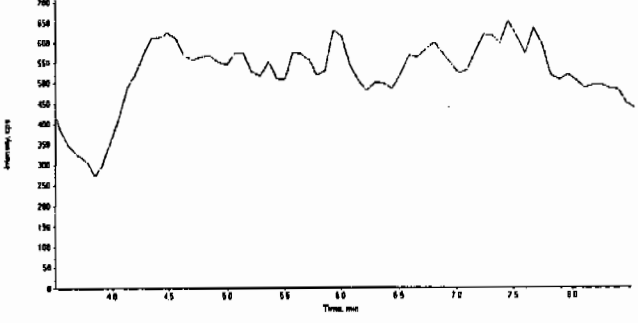
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

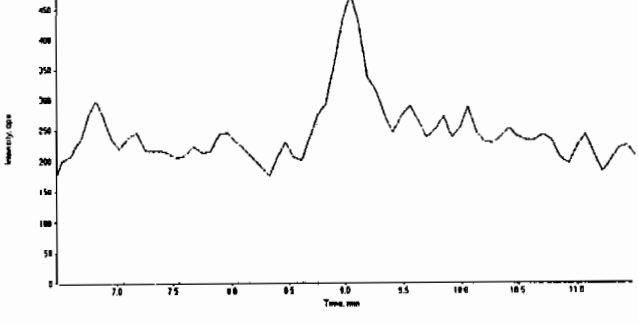
Handwritten:
 LER
 3/24/10
 HMX
 03/24/10

Data File	EXP0312002.wiff	Acquisition Date	3/12/2010 8:25:19 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

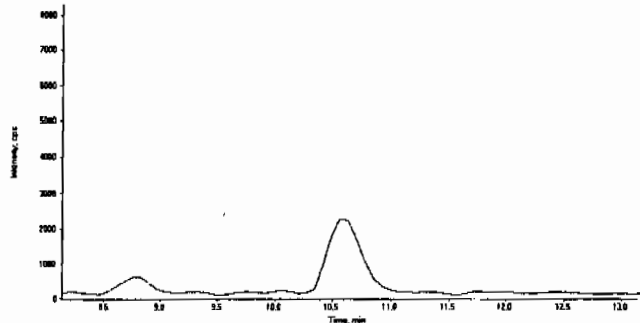
	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

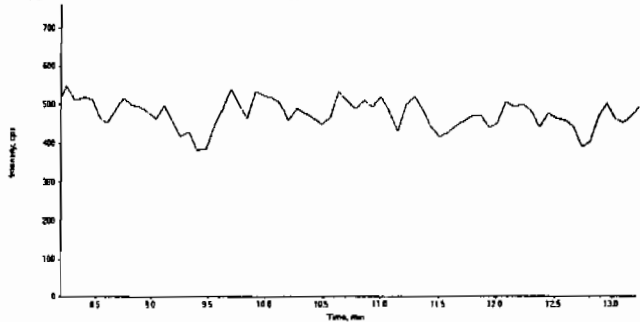
	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

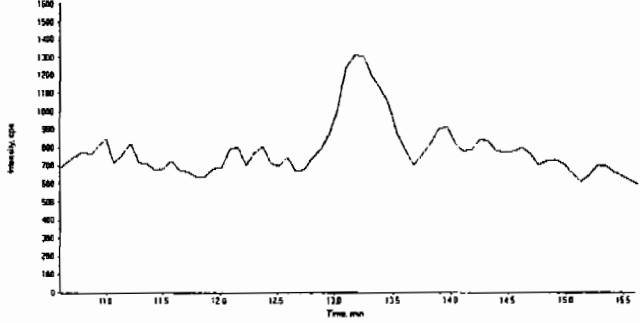
	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

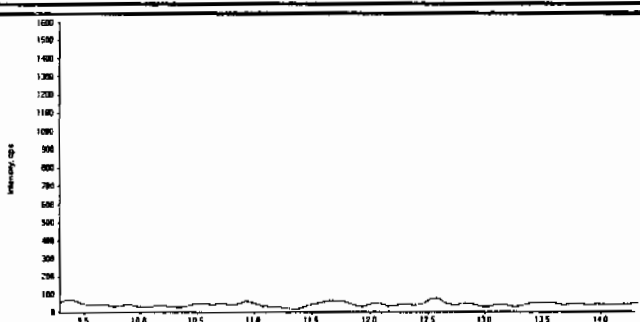
	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312002.wiff	Acquisition Date	3/12/2010 8:25:19 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312002.wiff	Acquisition Date	3/12/2010 8:25:19 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

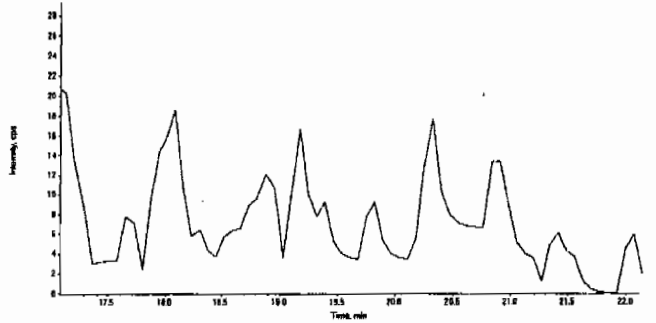
Data File	EXP0312002.wiff	Acquisition Date	3/12/2010 8:25:19 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312002.wiff	Acquisition Date	3/12/2010 8:25:19 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 01-MAR-10 09:03

GEL Data File: EXS03010001.wiff

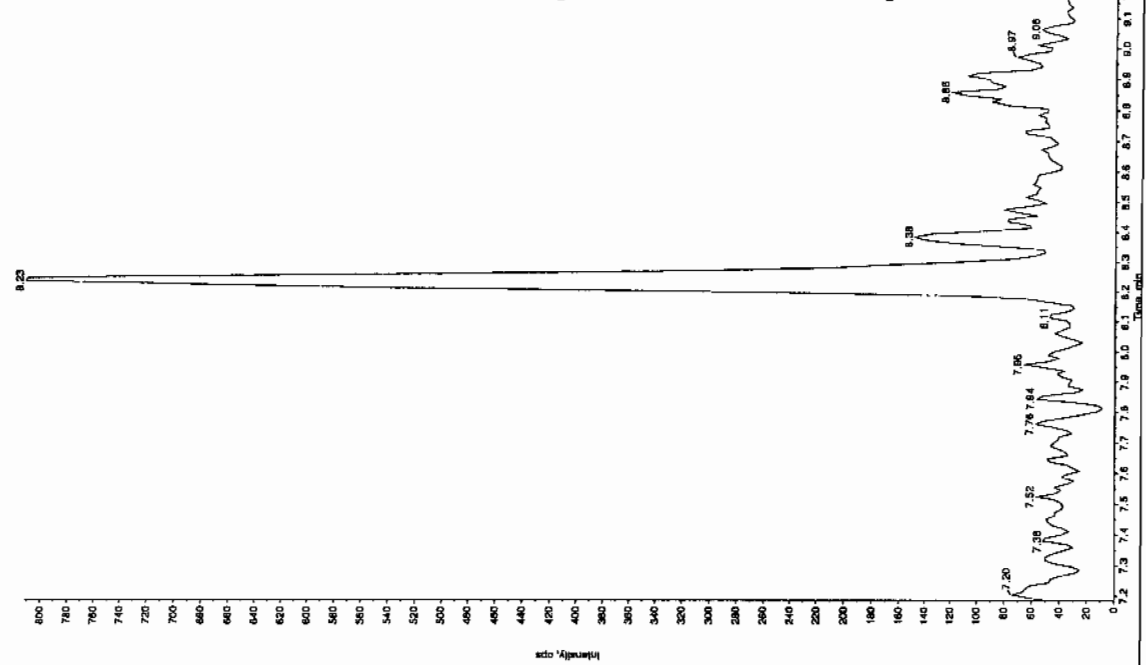
Instrument ID: LCMSMS

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

Sample Name: "XBLX01" Sample ID: "111111" File: "EXS0010001.wif"
 Peak Name: "36-Dihydroquinoline" Mass(es): "182.0460 amu"
 Comment: "LCMSEXP_B" Annotation: ""

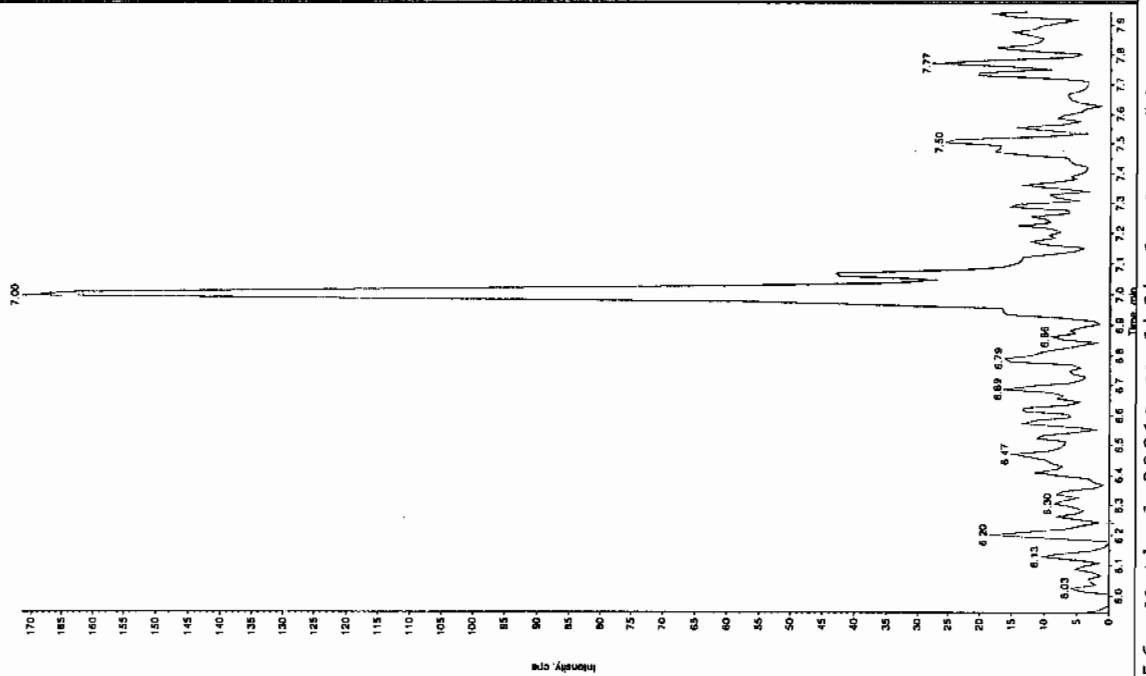
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 9:03:19 AM
 Modified: No



Ann 03/01/10

Sample Name: "XBLX01" Sample ID: "111111" File: "EXS0010001.wif"
 Peak Name: "TATB" Mass(es): "257.22048 amu"
 Comment: "LCMSEXP_B" Annotation: ""

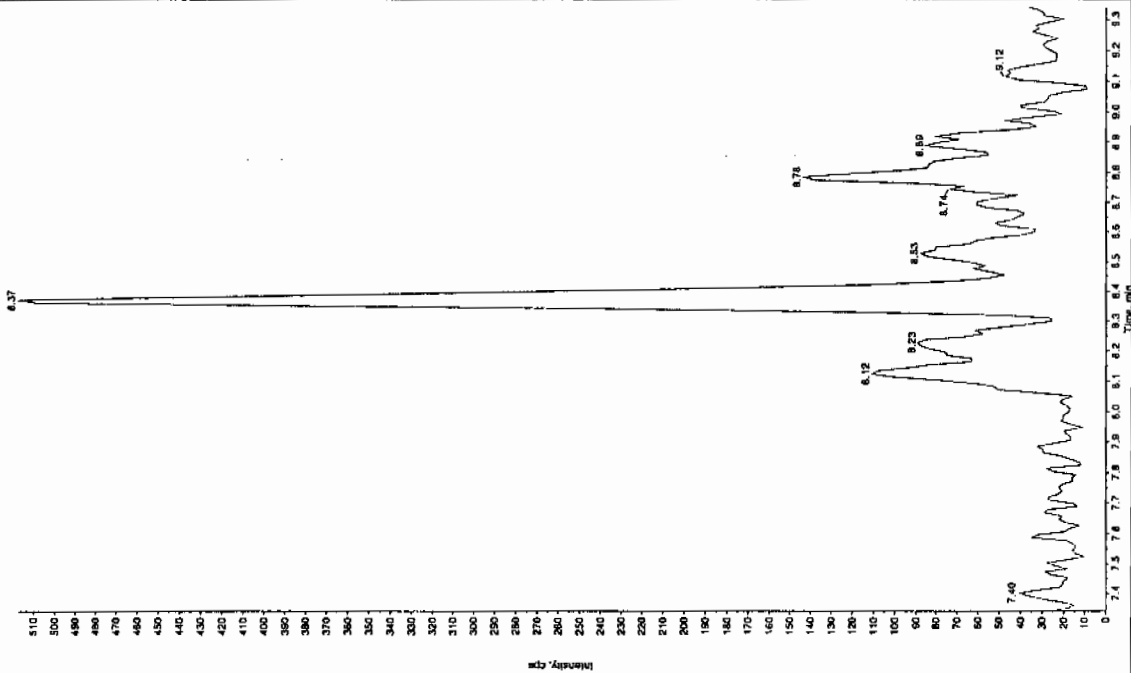
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 9:03:19 AM
 Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XBLK01" Sample ID: "111ER" File: "EX503010001.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "186.046.0 amu"
 Comment: "LOMEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 XCG: 3/1/2010
 ACQ: 9:03:19 AM
 Modified: No



Sample Name: "XBLK01" Sample ID: "111ER" File: "EX503010001.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "186.046.0 amu"
 Comment: "LOMEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 XCG: 3/1/2010
 ACQ: 9:03:19 AM
 Modified: No

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

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

Sample Name: "XIBLK01" Sample ID: "T1LER" File: "EX503010002.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

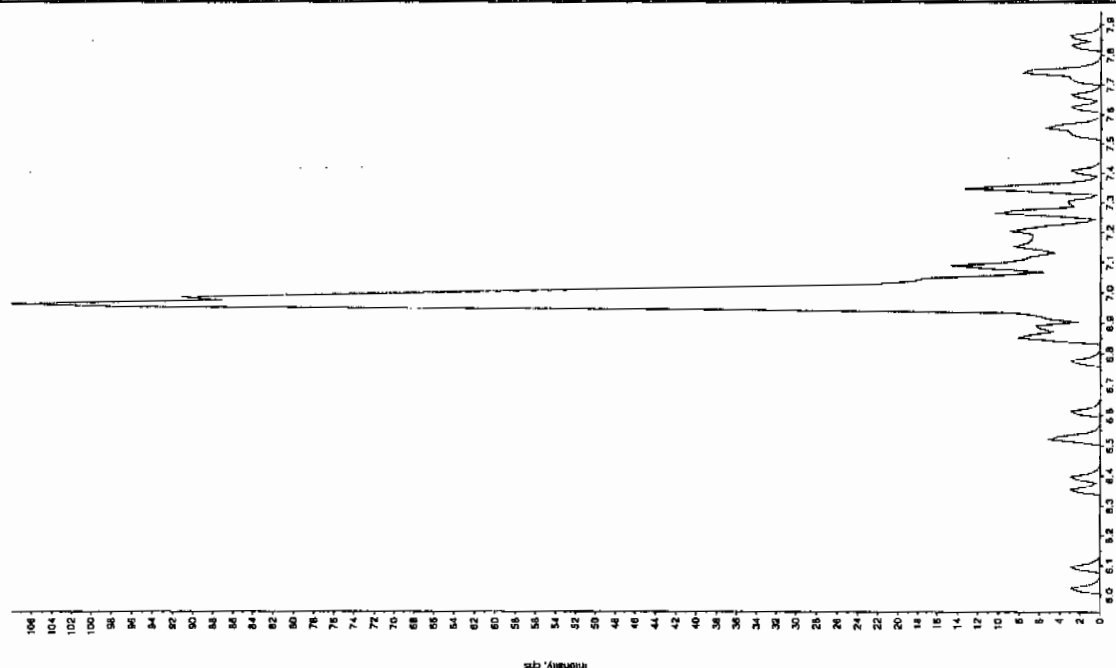
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/1/2010

Acq. Time: 9:19:07 AM

Modified: No



Sample Name: "XIBLK01" Sample ID: "T1LER" File: "EX503010002.wif"

Peak Name: "TATS" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

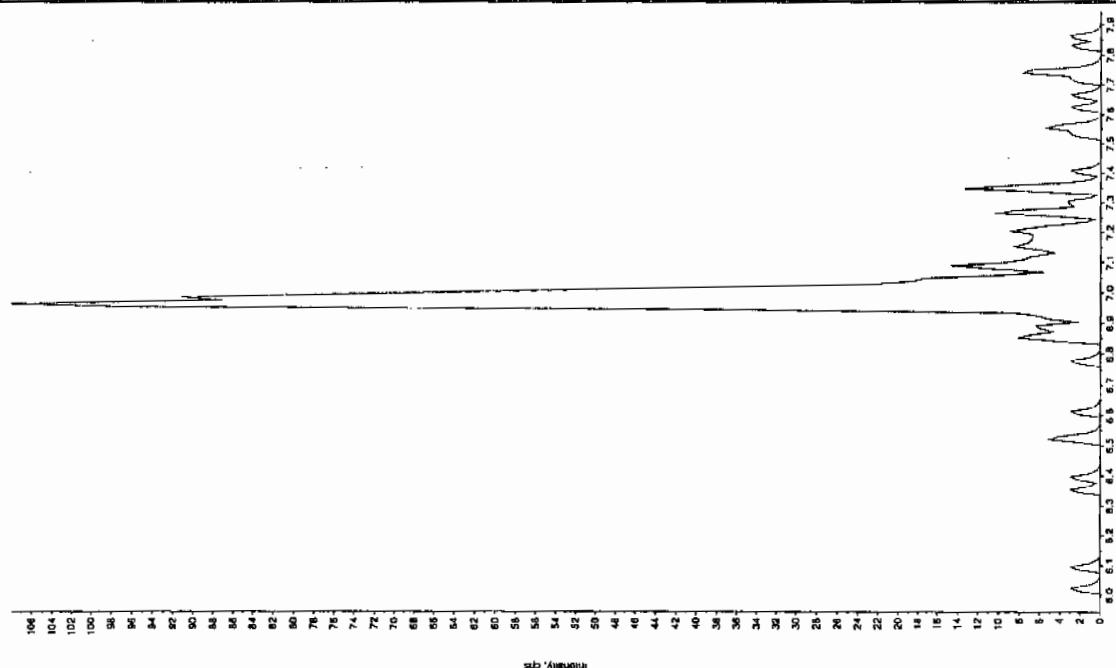
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/1/2010

Acq. Time: 9:19:07 AM

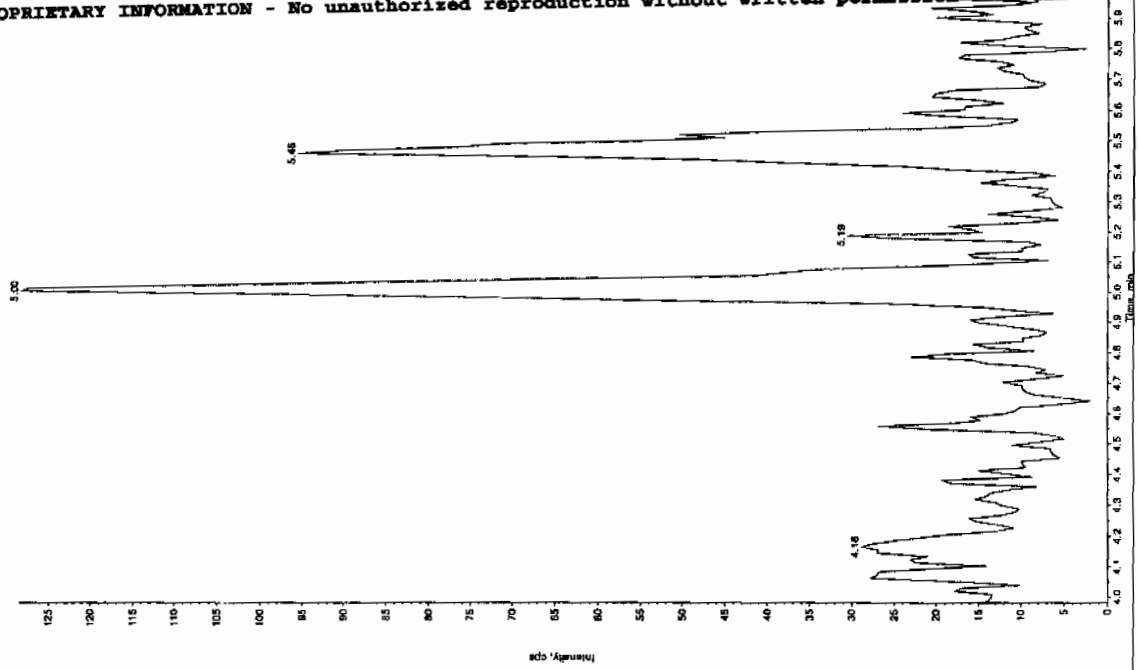
Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

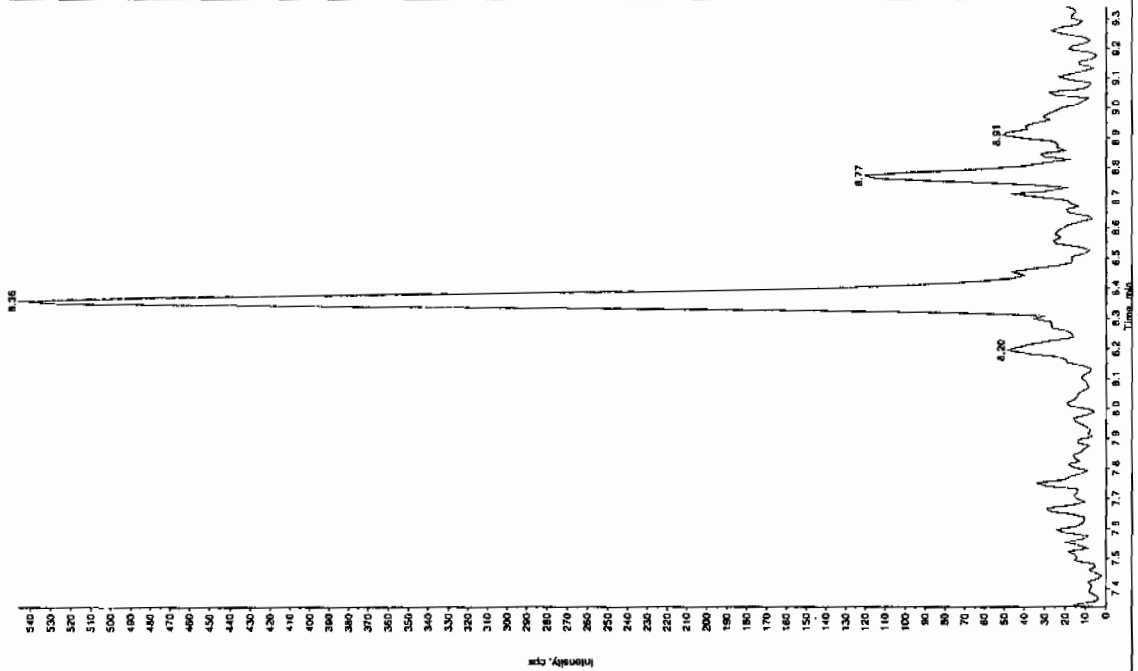
Sample Name: "XIBLK01" Sample ID: "JILLER" File: "EX503010002.wif"
 Peak Name: "25-Diamino-4-nitrotoluene" Mass(es): "166.0465.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/17/2010
 Acq. Time: 5:19:07 AM
 Modified: No



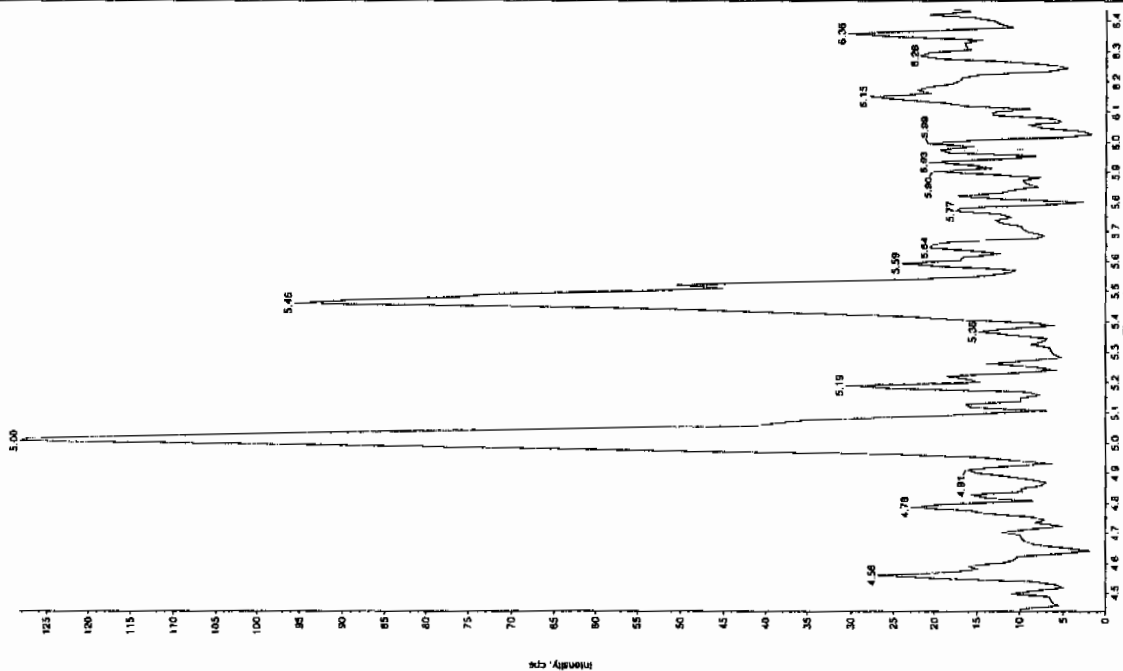
Sample Name: "XIBLK01" Sample ID: "JILLER" File: "EX503010002.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1511.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/17/2010
 Acq. Time: 9:13:07 AM
 Modified: No



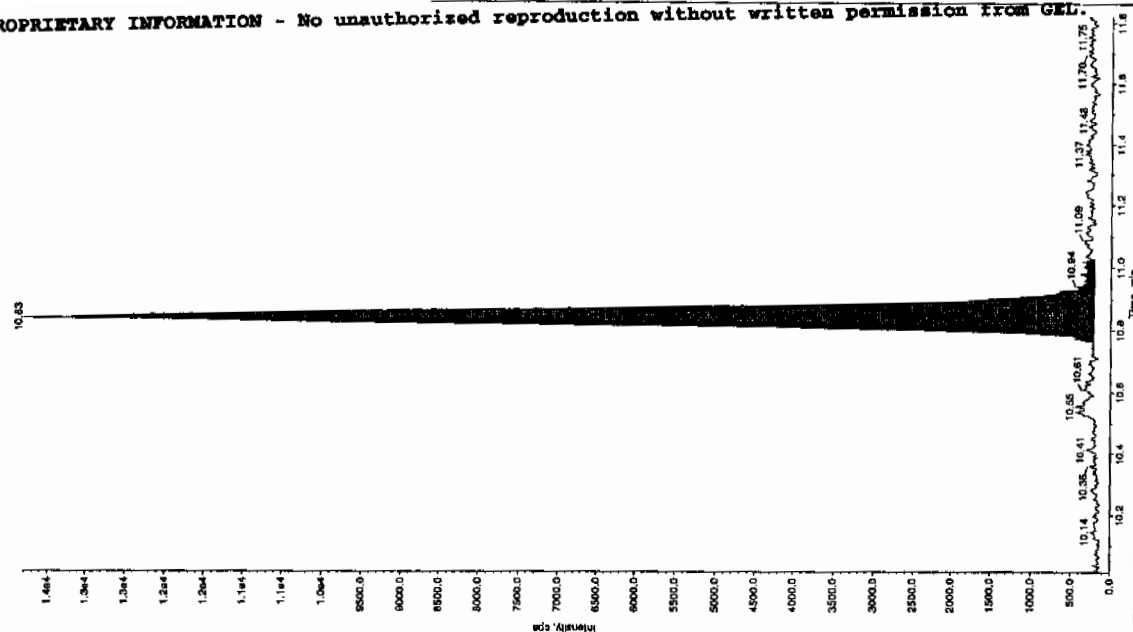
Sample Name: YIBLK01 Sample ID: T11ER File: EX503010002.wif
 Peak Name: 24-Dihydro-6-thioxanthene Mass(es): 166.046.0 amu
 Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 9.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 9:19:17 AM
 Modified: No



Sample Name: YIBLK01 Sample ID: T11ER File: EX503010002.wif
 Peak Name: 10-(Cholesteryl)phosphate Mass(es): 386.191.0 amu
 Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: No Intercept
 Acq. Date: 3/1/2010
 Acq. Time: 9:19:07 AM
 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: 10.8 min
 Area: 4.80e+004 counts
 Height: 13586.056 cps
 Start Time: 10.8 min
 End Time: 11.0 min



Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 12-MAR-10 11:29

GEL Data File: EXP0312009.wiff

Instrument ID: LCMSMS

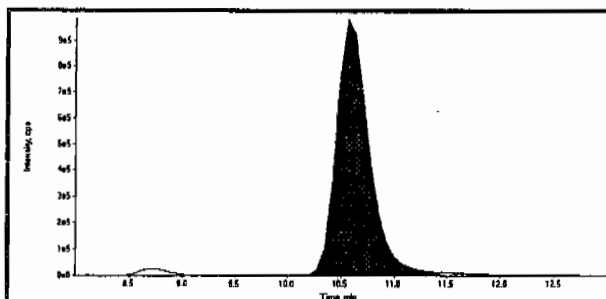
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
DNX	0	0
MXN	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
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

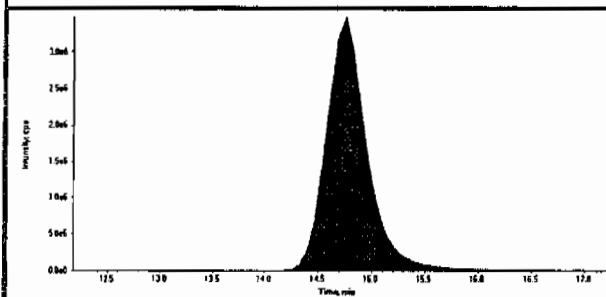
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

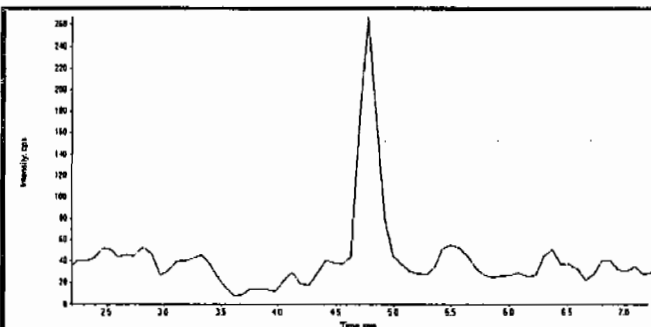
Data File	EXP0312009.wiff	Acquisition Date	3/12/2010 11:29:54 AM
Sample Name	XIBLK02	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



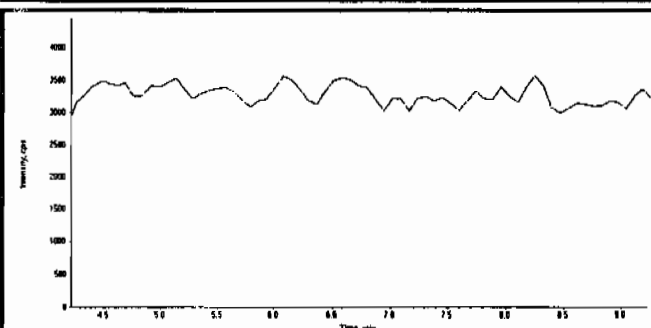
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	21100000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	92100000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



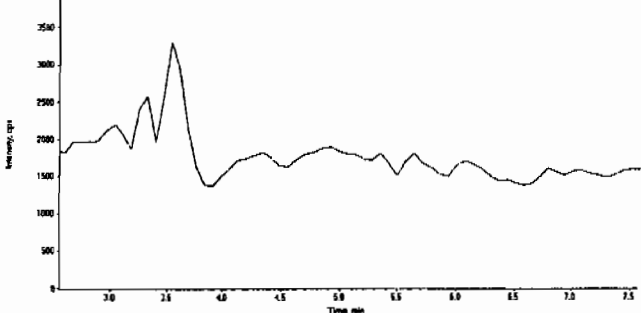
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

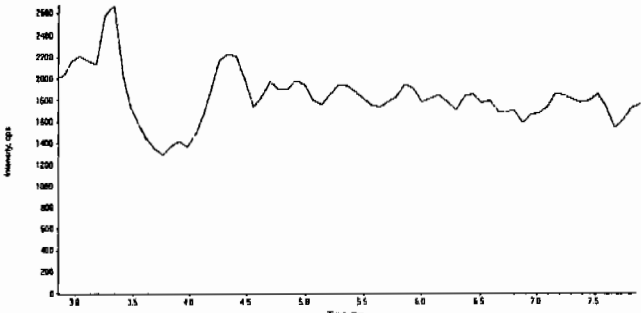
Handwritten:
3/24/10
LER
3/24/10

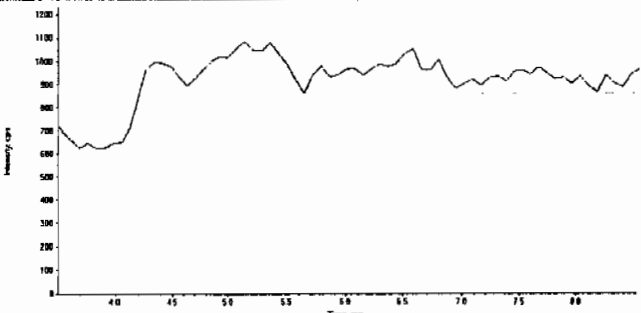
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

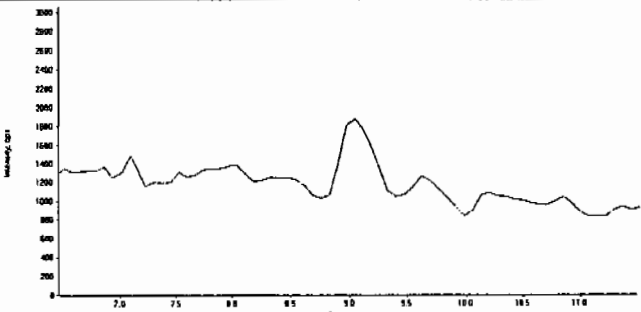
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312009.wiff	Acquisition Date	3/12/2010 11:29:54 AM
Sample Name	XIBLK02	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312009.wiff	Acquisition Date	3/12/2010 11:29:54 AM
Sample Name	XIBLK02	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

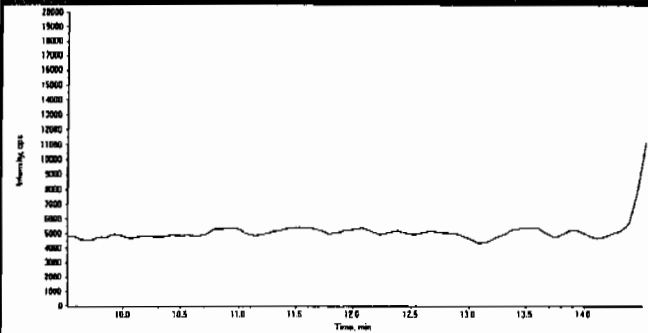
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

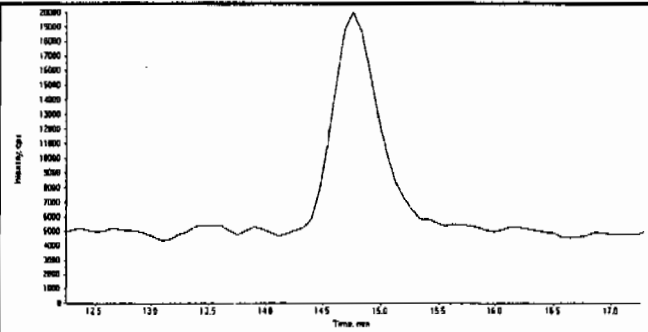
	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

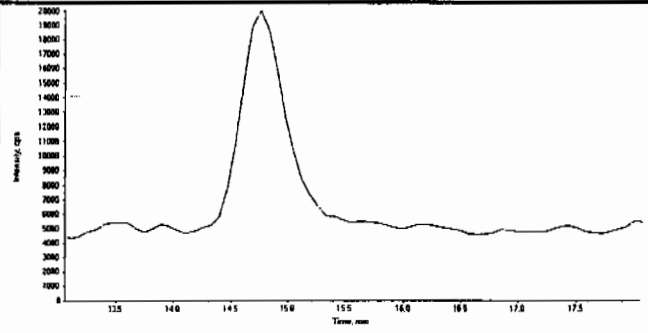
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

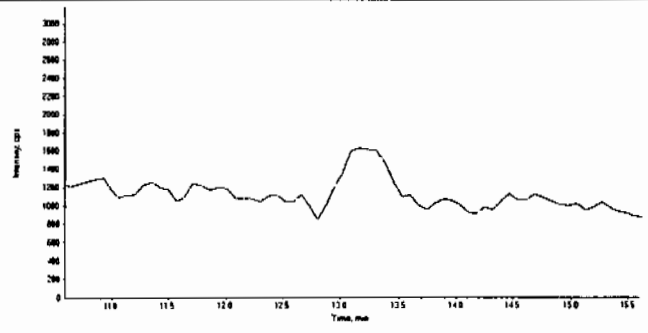
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312009.wiff	Acquisition Date	3/12/2010 11:29:54 AM
Sample Name	XIBLK02	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

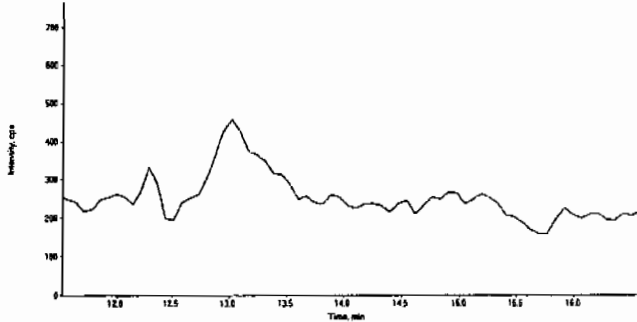
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

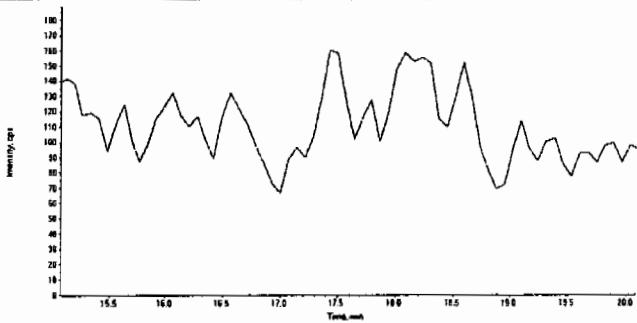
	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

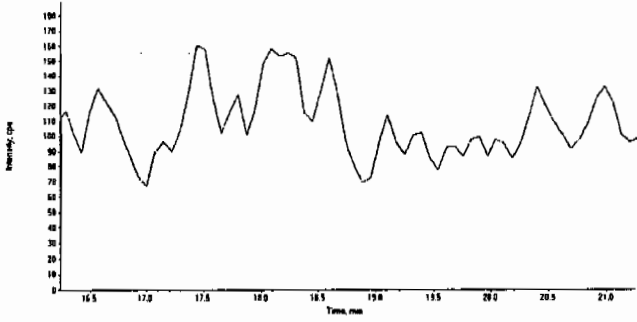
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

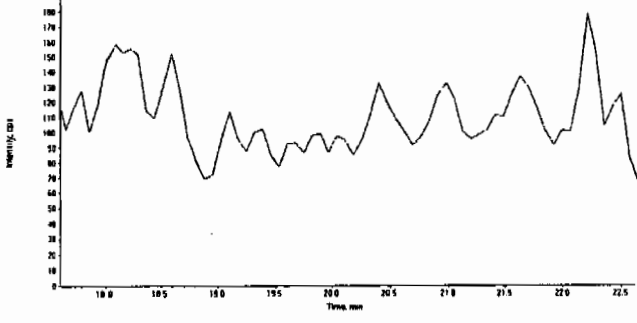
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312009.wiff	Acquisition Date	3/12/2010 11:29:54 AM
Sample Name	XIBLK02	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

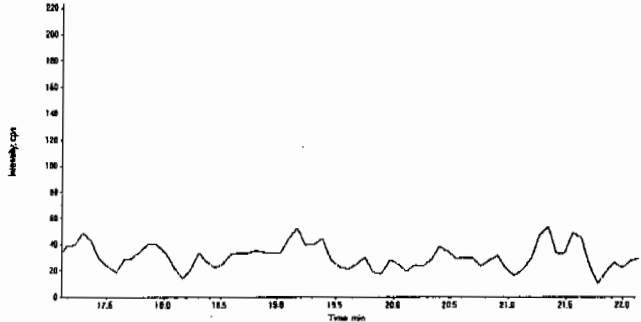
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312009.wiff	Acquisition Date	3/12/2010 11:29:54 AM
Sample Name	XIBLK02	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 12-MAR-10 12:22

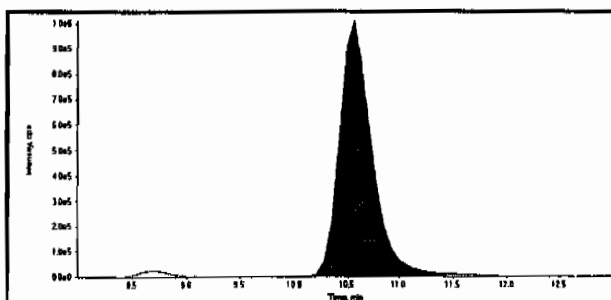
GEL Data File: EXP0312011.wiff

Instrument ID: LCMSMS

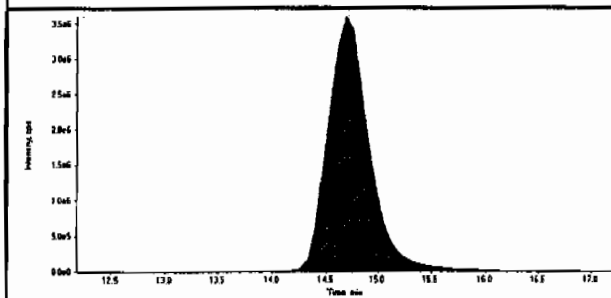
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
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
3,4-Dinitrotoluene	0	0
DNX	0	0
MXN	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2-Amino-4,6-dinitrotoluene	0	0

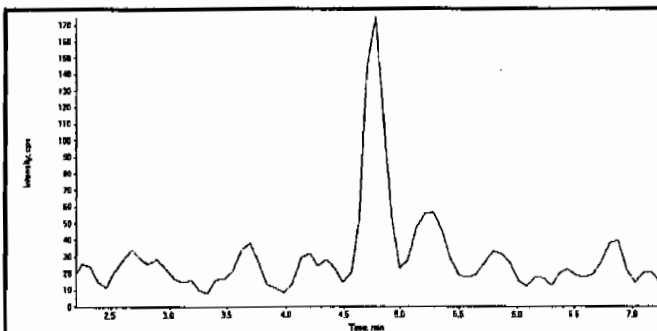
Data File	EXP0312011.wiff	Acquisition Date	3/12/2010 12:22:46 PM
Sample Name	XIBLK03	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



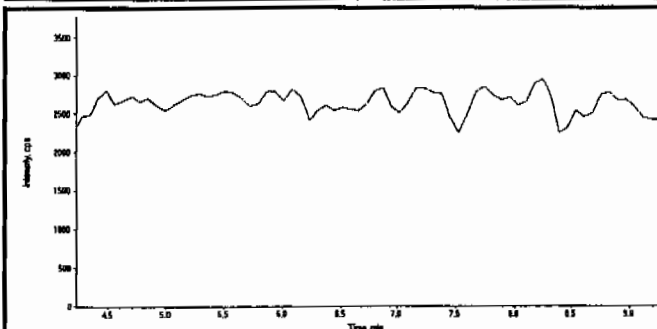
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	22200000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.70
Area Counts:	100000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



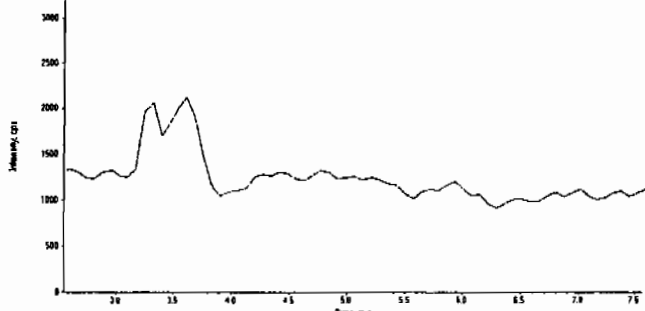
Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

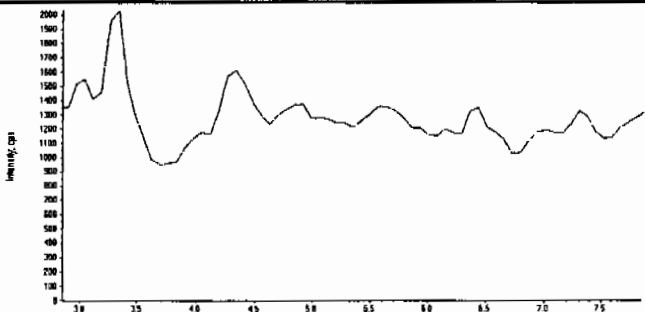


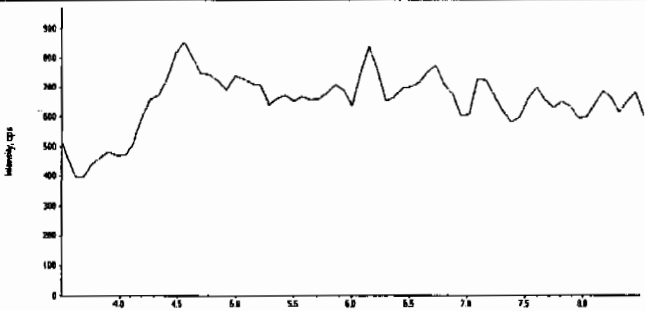
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

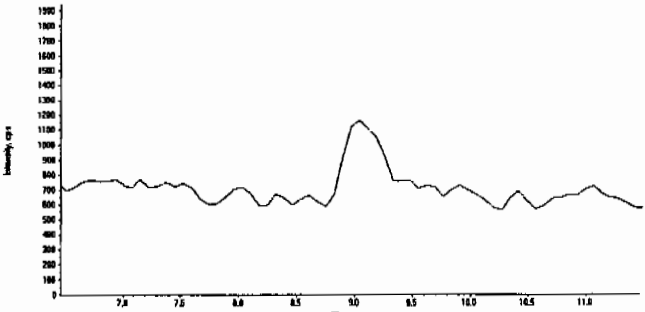
Handwritten signature: J. Ler
3/24/10

Data File	EXP0312011.wiff	Acquisition Date	3/12/2010 12:22:46 PM
Sample Name	XIBLK03	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

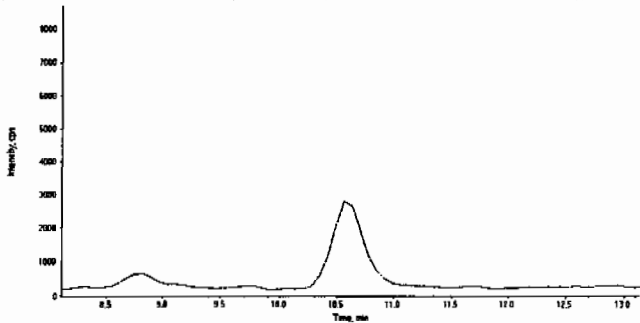
	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

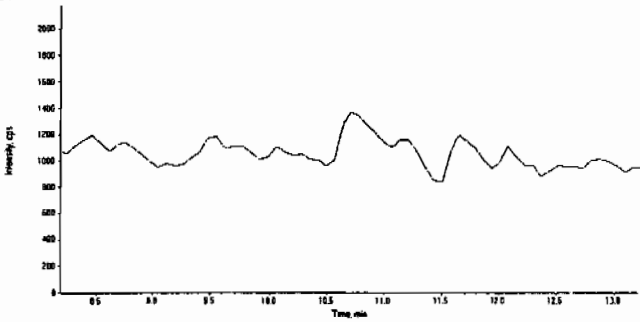
	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

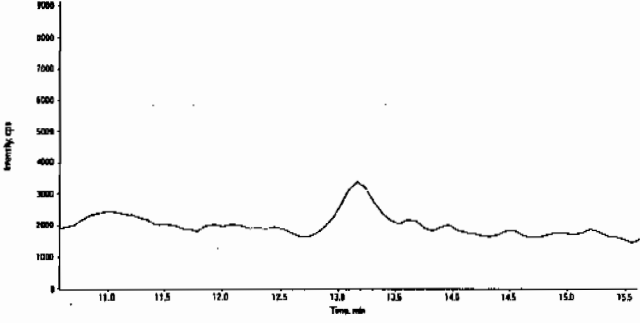
	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

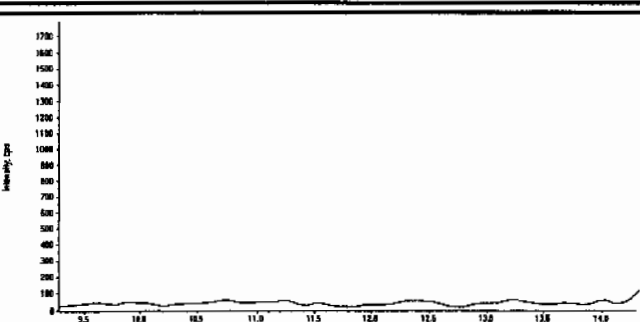
	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312011.wiff	Acquisition Date	3/12/2010 12:22:46 PM
Sample Name	XIBLK03	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

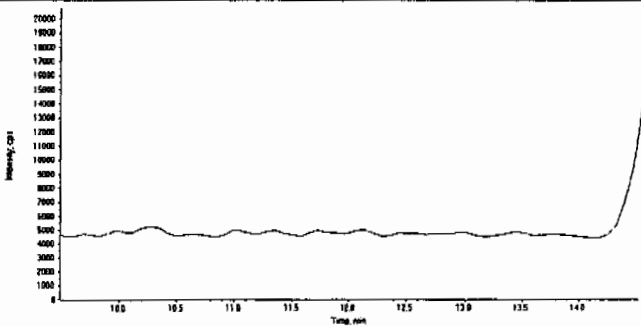
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

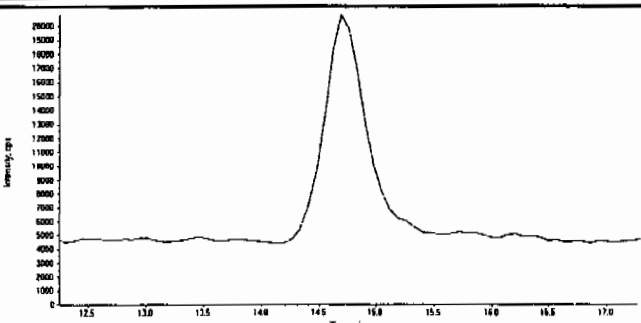
	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

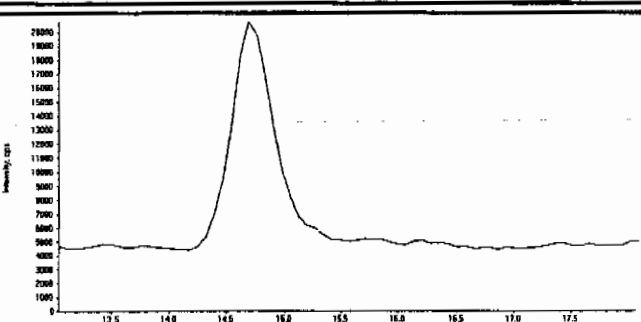
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

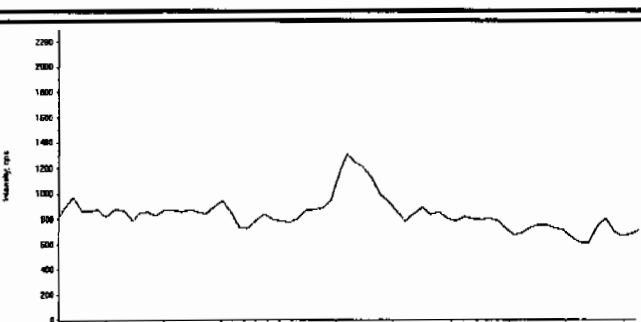
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312011.wiff	Acquisition Date	3/12/2010 12:22:46 PM
Sample Name	XIBLK03	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312011.wiff	Acquisition Date	3/12/2010 12:22:46 PM
Sample Name	XIBLK03	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

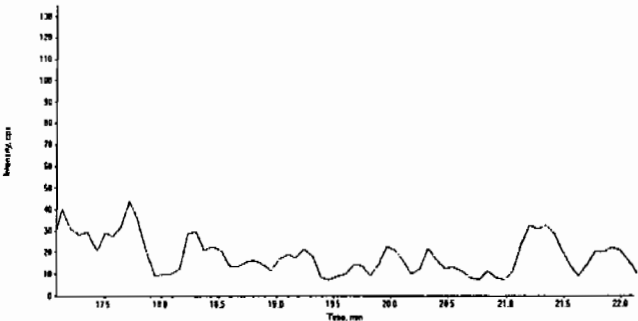
	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC

Printed: 23/03/2010 4:08:00 PM

GEL SOP GL-OA-E-056, Method 8321A-Modified

LCMSMS#3

Data File	EXP0312011.wiff	Acquisition Date	3/12/2010 12:22:46 PM
Sample Name	XIBLK03	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 12-MAR-10 13:41

GEL Data File: EXP0312014.wiff

Instrument ID: LCMSMS

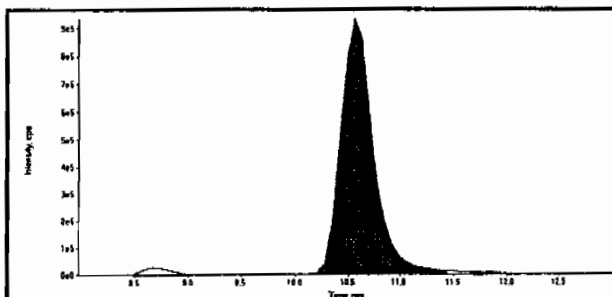
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
DNX	0	0
MXN	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
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

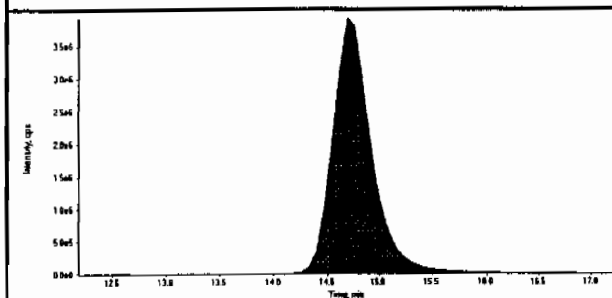
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

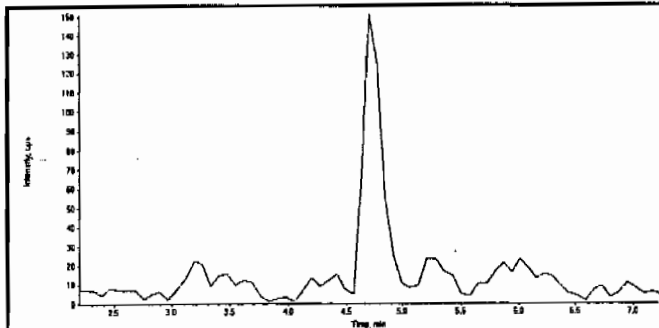
Data File	EXP0312014.wiff	Acquisition Date	3/12/2010 1:41:55 PM
Sample Name	XIBLK04	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



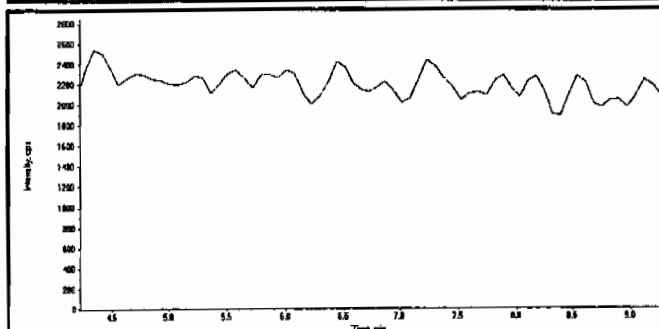
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	21100000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.70
Area Counts:	104000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



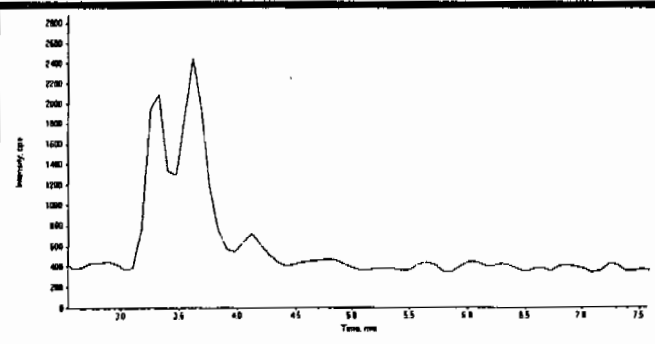
Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

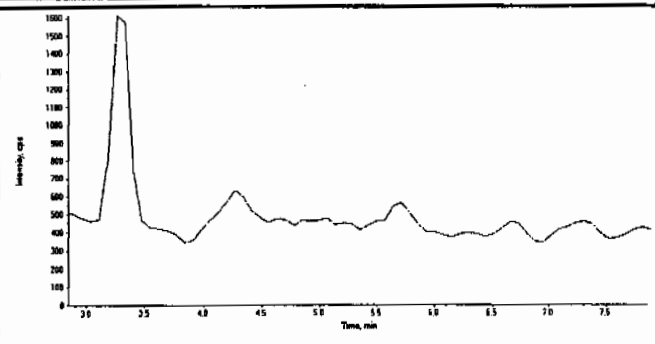


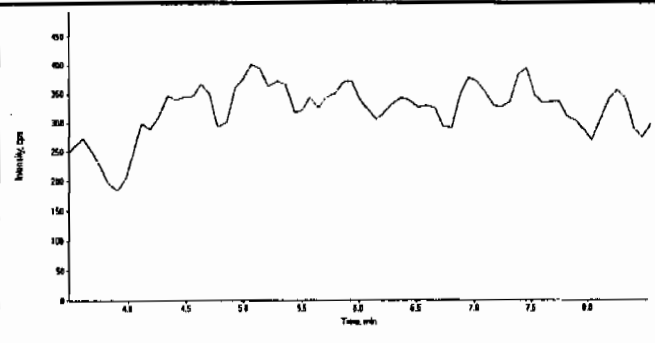
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

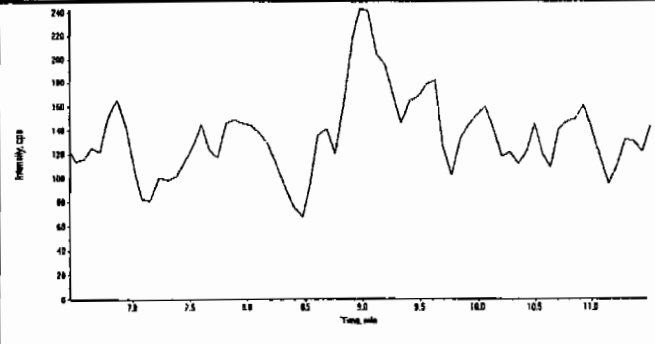
Handwritten signatures and dates:
HMX 03/24/10
RDX 3/24/10

Data File	EXP0312014.wiff	Acquisition Date	3/12/2010 1:41:55 PM
Sample Name	XIBLK04	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

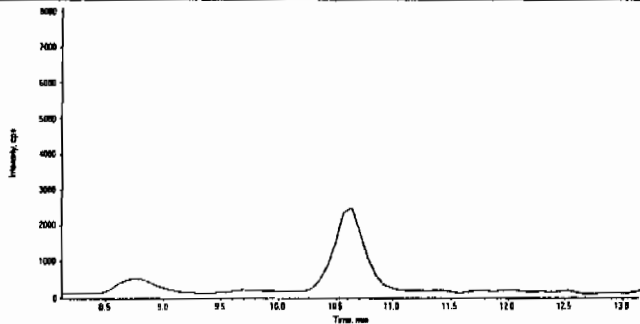
	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

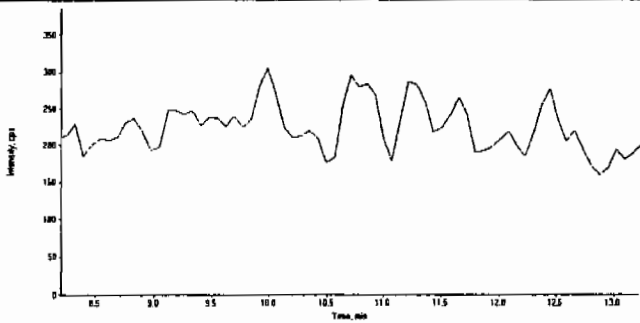
	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

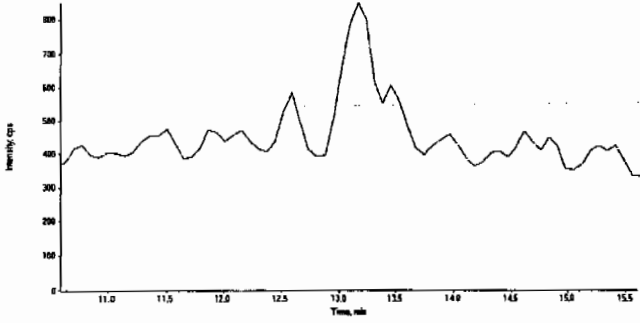
	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

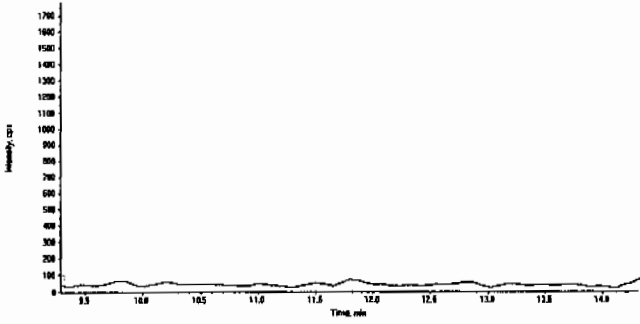
	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312014.wiff	Acquisition Date	3/12/2010 1:41:55 PM
Sample Name	XIBLK04	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312014.wiff	Acquisition Date	3/12/2010 1:41:55 PM
Sample Name	XIBLK04	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

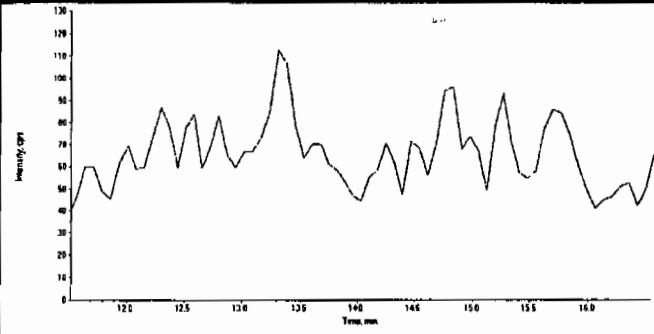
	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

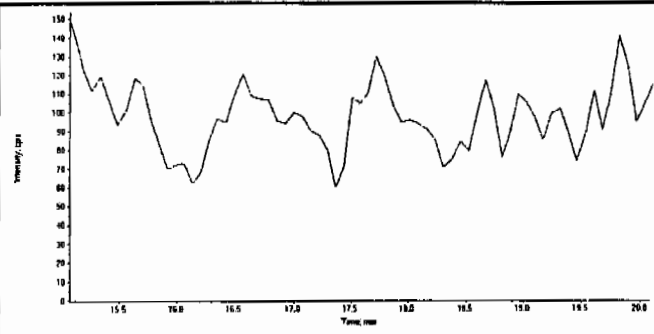
	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

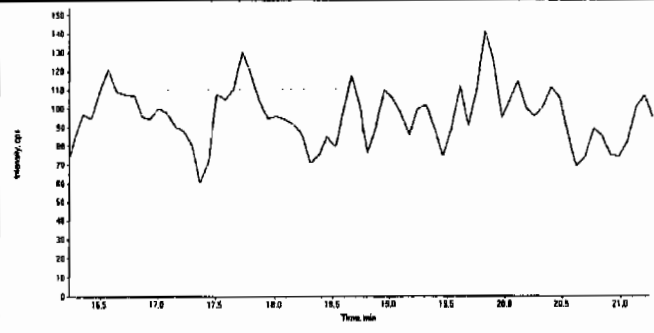
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

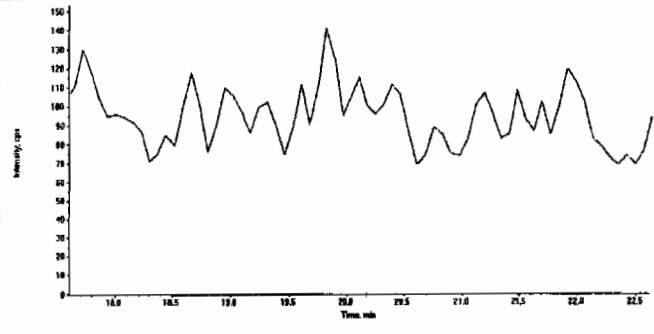
	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312014.wiff	Acquisition Date	3/12/2010 1:41:55 PM
Sample Name	XIBLK04	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

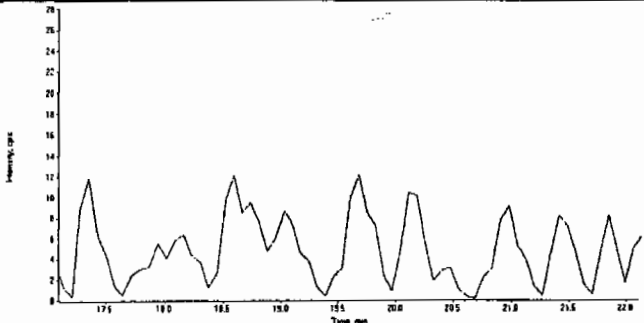
	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC

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GEL SOP GL-OA-E-056, Method 8321A-Modified

LCMSMS#3

Data File	EXP0312014.wiff	Acquisition Date	3/12/2010 1:41:55 PM
Sample Name	XIBLK04	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 12-MAR-10 14:34

GEL Data File: EXP0312016.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
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
3,4-Dinitrotoluene	0	0
DNX	0	0
MXN	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0

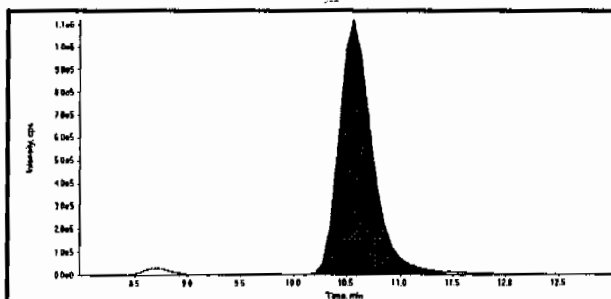
GEL Laboratories, LLC

Printed: 23/03/2010 4:08:00 PM

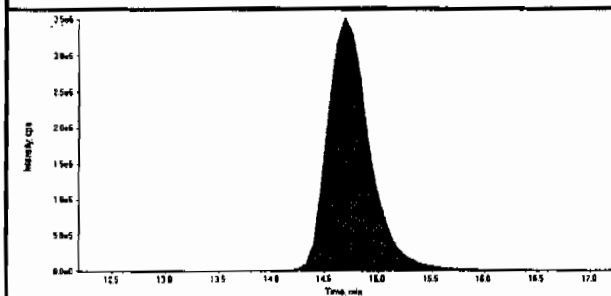
GEL SOP GL-OA-E-056, Method 8321A-Modified

LCMSMS#3

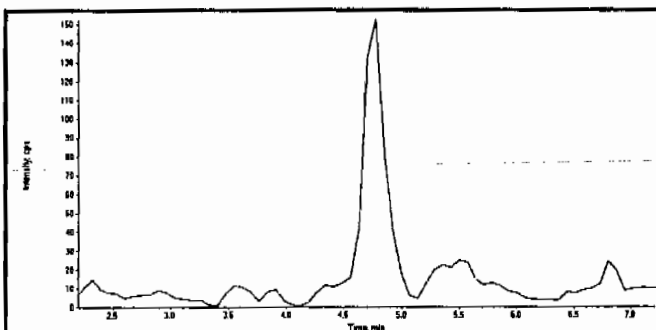
Data File	EXP0312016.wiff	Acquisition Date	3/12/2010 2:34:37 PM
Sample Name	XIBLK05	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



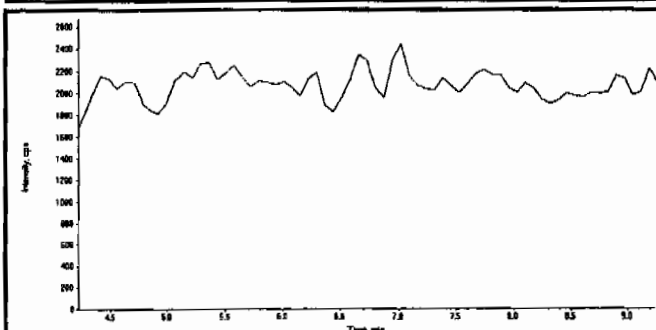
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	24300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.70
Area Counts:	96900000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



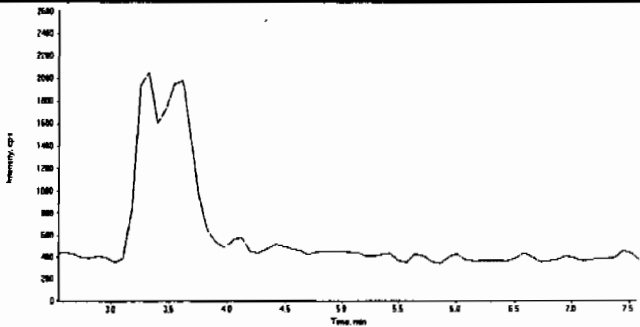
Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

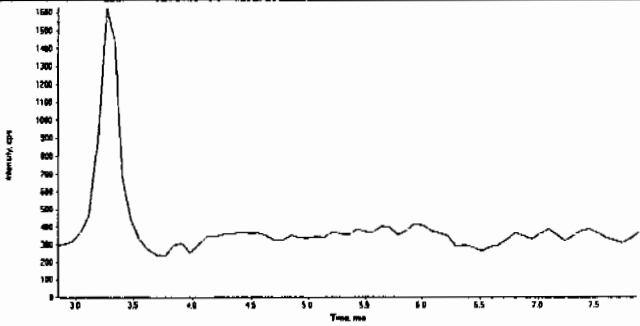


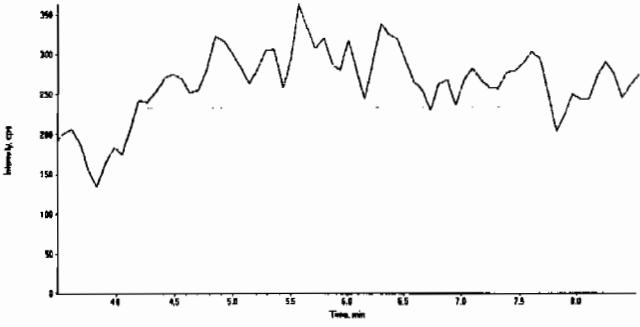
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

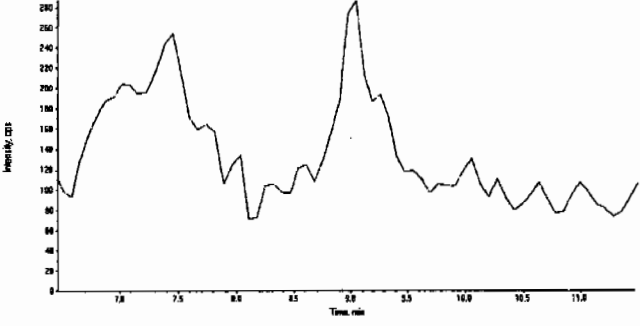
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Data File	EXP0312016.wiff	Acquisition Date	3/12/2010 2:34:37 PM
Sample Name	XIBLK05	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

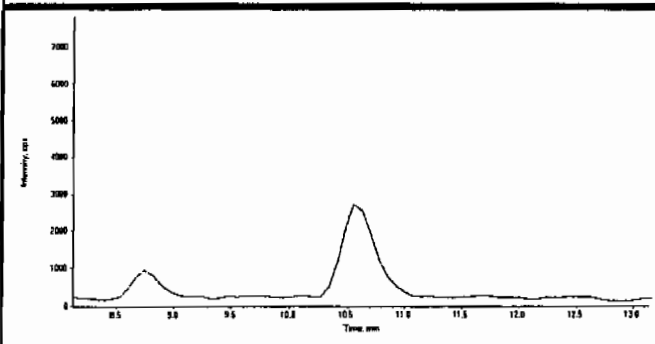
	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

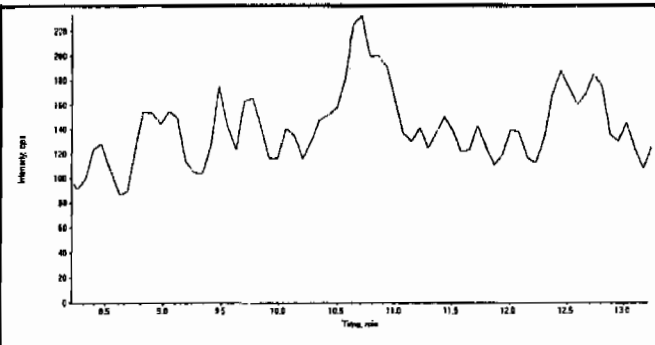
	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

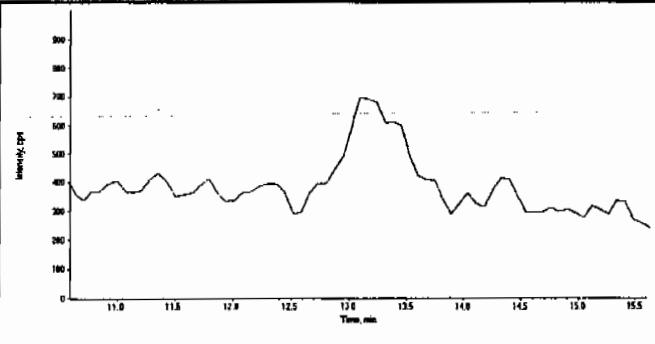
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

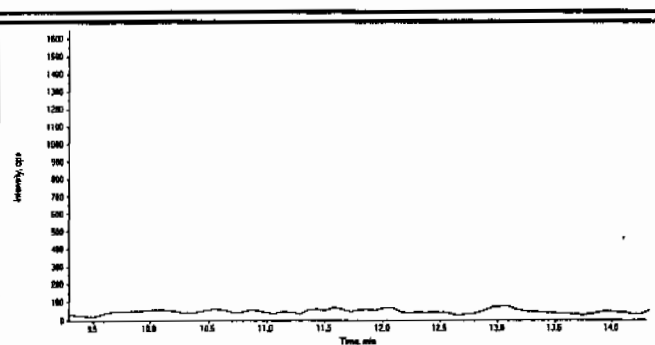
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312016.wiff	Acquisition Date	3/12/2010 2:34:37 PM
Sample Name	XIBLK05	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

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GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312016.wiff	Acquisition Date	3/12/2010 2:34:37 PM
Sample Name	XIBLK05	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312016.wiff	Acquisition Date	3/12/2010 2:34:37 PM
Sample Name	XIBLK05	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

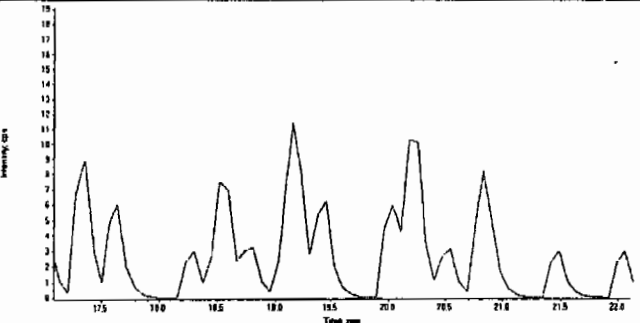
	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC

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GEL SOP GL-OA-E-056, Method 8321A-Modified

LCMSMS#3

Data File	EXP0312016.wiff	Acquisition Date	3/12/2010 2:34:37 PM
Sample Name	XIBLK05	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 12-MAR-10 15:53

GEL Data File: EXP0312019.wiff

Instrument ID: LCMSMS

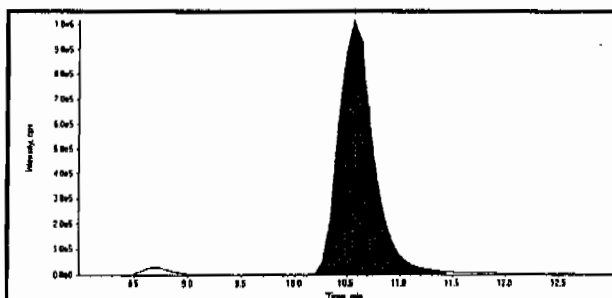
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
DNX	0	0
MNX	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
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

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

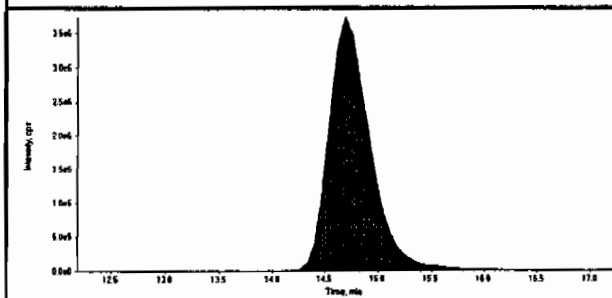
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312019.wiff	Acquisition Date	3/12/2010 3:53:49 PM
Sample Name	XIBLK06	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



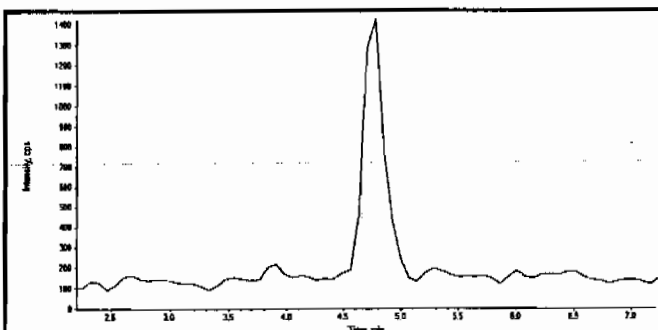
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	22900000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

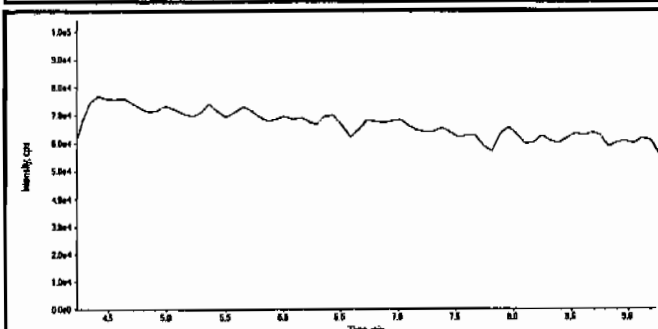


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.70
Area Counts:	101000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

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3/12/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312019.wiff	Acquisition Date	3/12/2010 3:53:49 PM
Sample Name	XIBLK06	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312019.wiff	Acquisition Date	3/12/2010 3:53:49 PM
Sample Name	XIBLK06	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312019.wiff	Acquisition Date	3/12/2010 3:53:49 PM
Sample Name	XIBLK06	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312019.wiff	Acquisition Date	3/12/2010 3:53:49 PM
Sample Name	XIBLK06	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

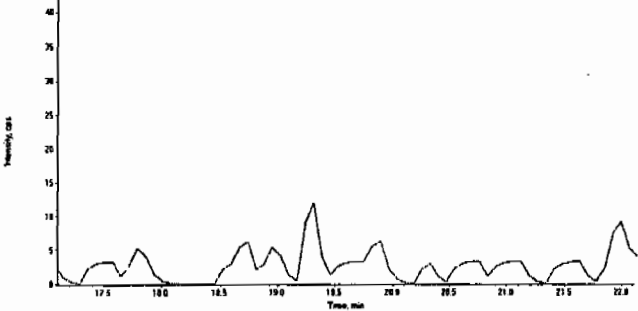
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312019.wiff	Acquisition Date	3/12/2010 3:53:49 PM
Sample Name	XIBLK06	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 12-MAR-10 17:39

GEL Data File: EXP0312023.wiff

Instrument ID: LCMSMS

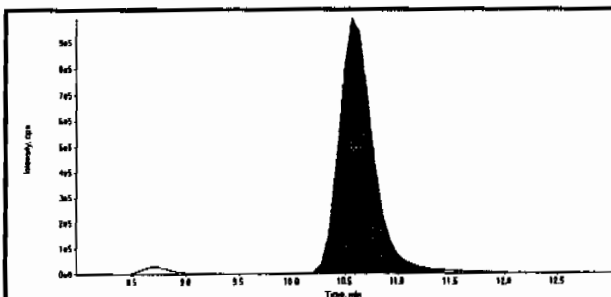
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
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
TNX	0	0
3,4-Dinitrotoluene	0	0
DNX	0	0
MNX	0	0

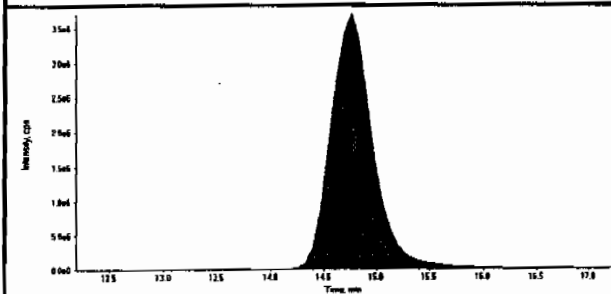
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

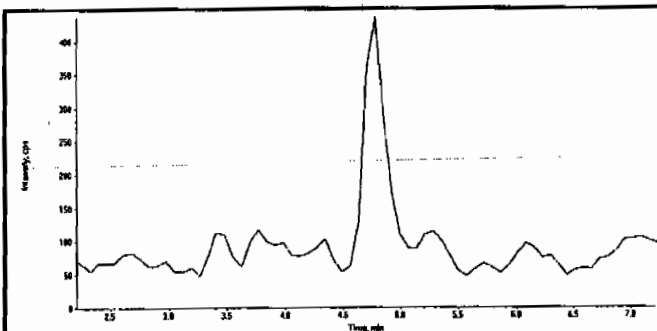
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Sample Name	XIBLK07	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



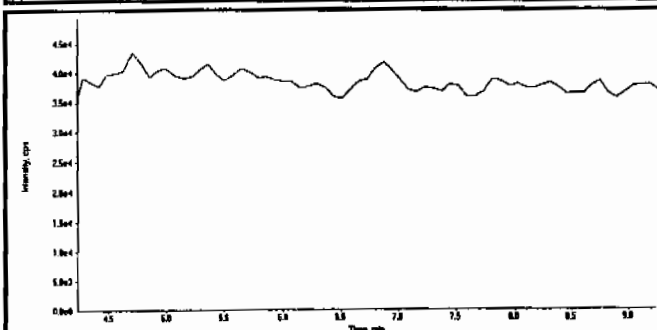
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	22200000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	102000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



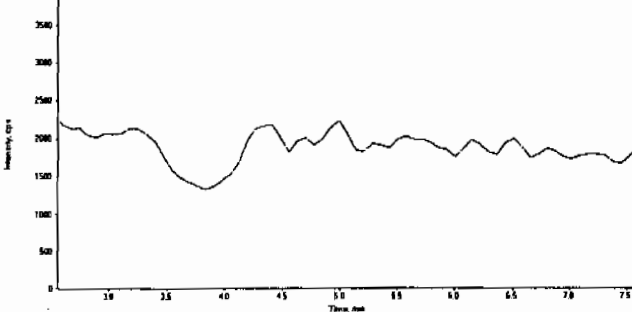
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

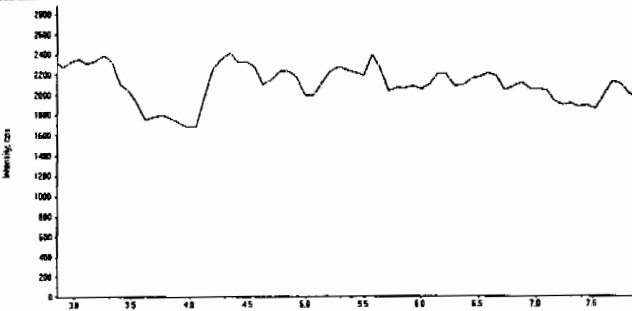
done 02/24/10
LER 3/24/10

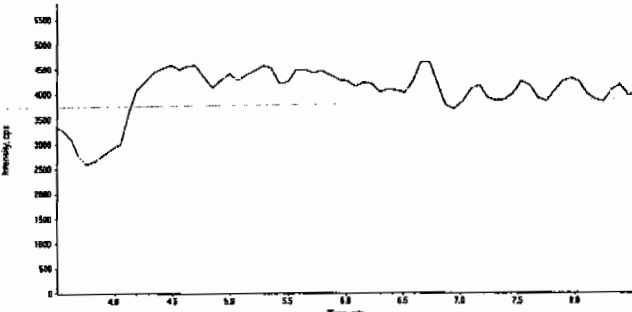
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

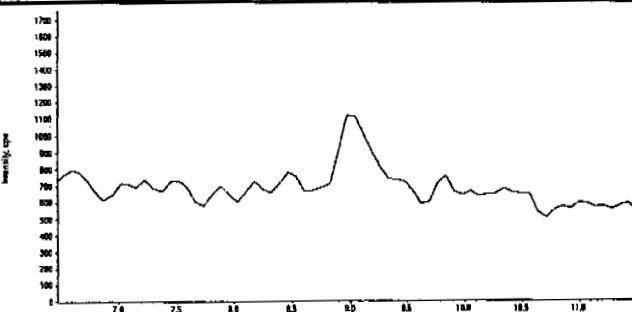
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LCMSMS#3

Data File	EXP0312023.wiff	Acquisition Date	3/12/2010 5:39:30 PM
Sample Name	XIBLK07	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC

Printed: 23/03/2010 4:08:00 PM

GEL SOP GL-OA-E-056, Method 8321A-Modified

LCMSMS#3

Data File	EXP0312023.wiff	Acquisition Date	3/12/2010 5:39:30 PM
Sample Name	XIBLK07	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

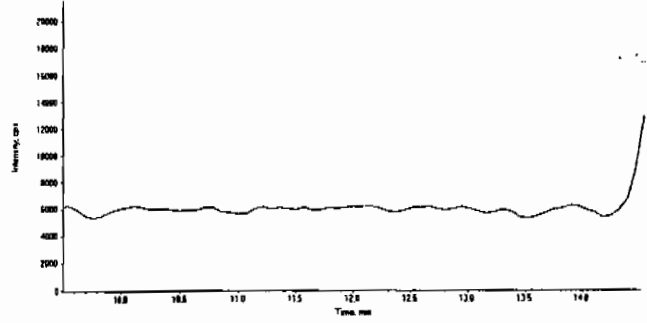
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

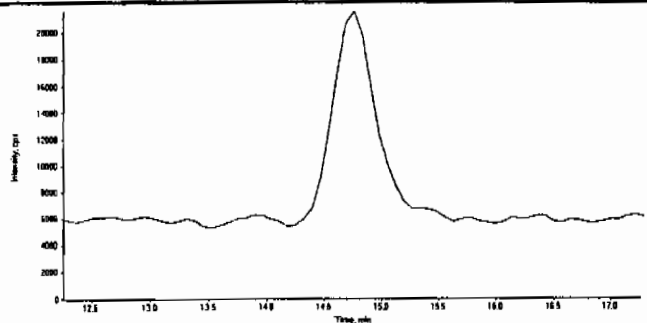
	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

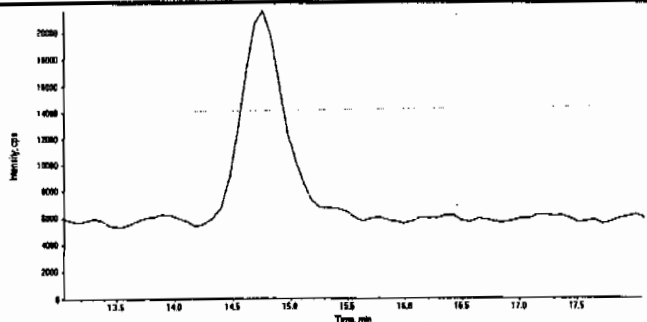
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

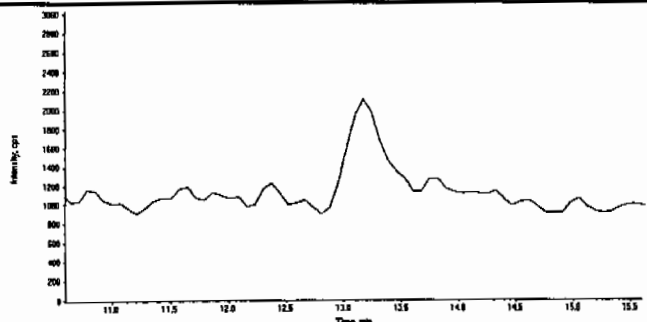
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312023.wiff	Acquisition Date	3/12/2010 5:39:30 PM
Sample Name	XIBLK07	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

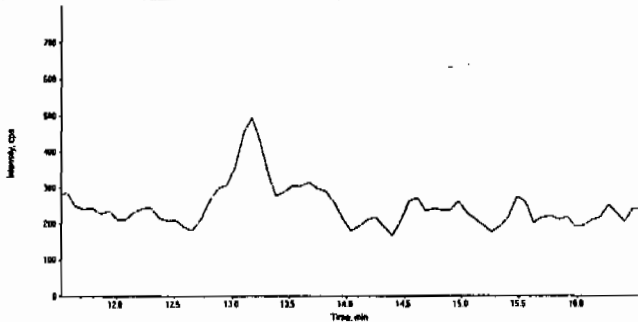
	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

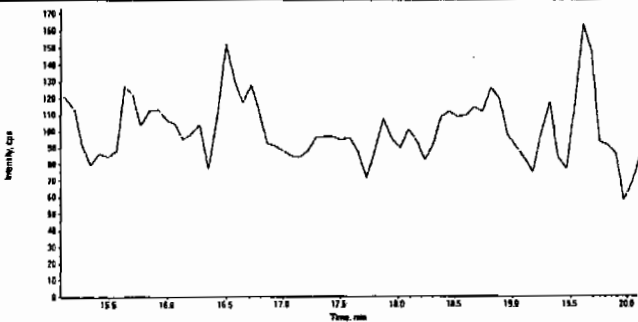
	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

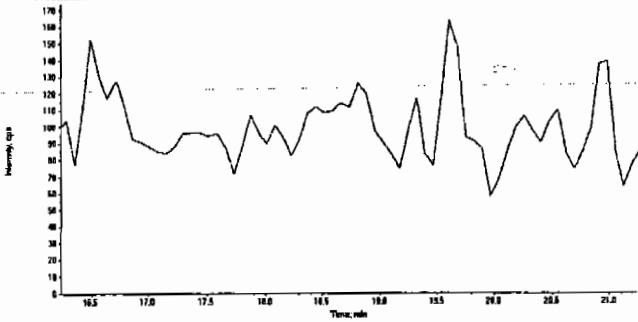
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

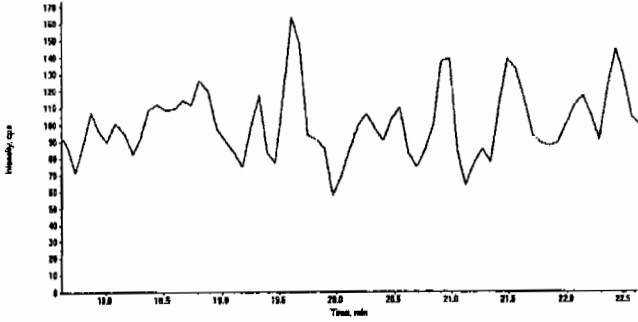
	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312023.wiff	Acquisition Date	3/12/2010 5:39:30 PM
Sample Name	XIBLK07	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

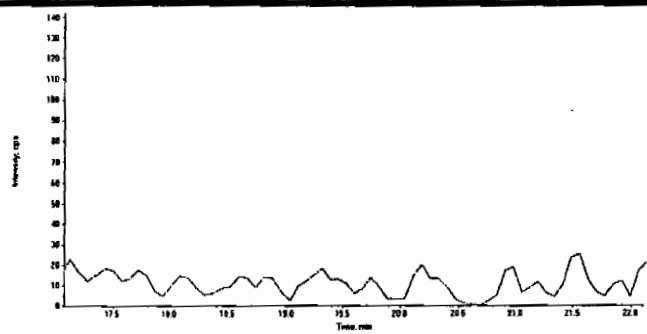
	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC

Printed: 23/03/2010 4:08:00 PM

GEL SOP GL-OA-E-056, Method 8321A-Modified

LCMSMS#3

Data File	EXP0312023.wiff	Acquisition Date	3/12/2010 5:39:30 PM
Sample Name	XIBLK07	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 12-MAR-10 23:22

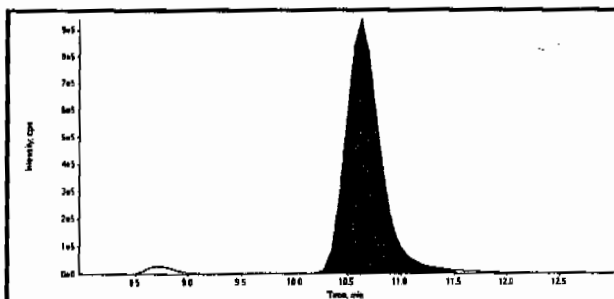
GEL Data File: EXP0312036.wiff

Instrument ID: LCMSMS

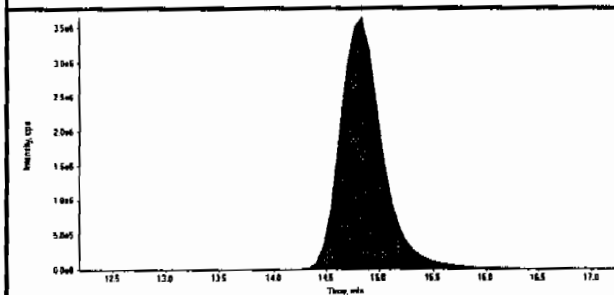
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
DNX	0	0
MNX	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
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

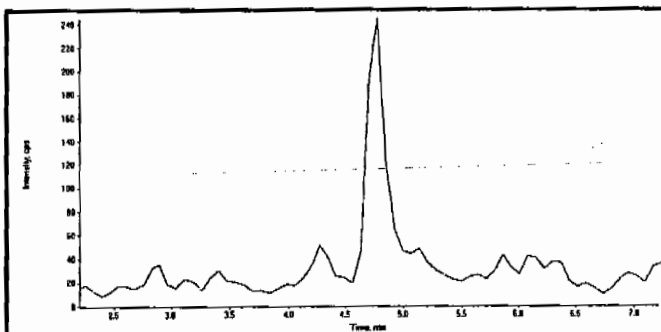
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Sample Name	XIBLK08	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LOMSEXP_B	Sample Type	Unknown



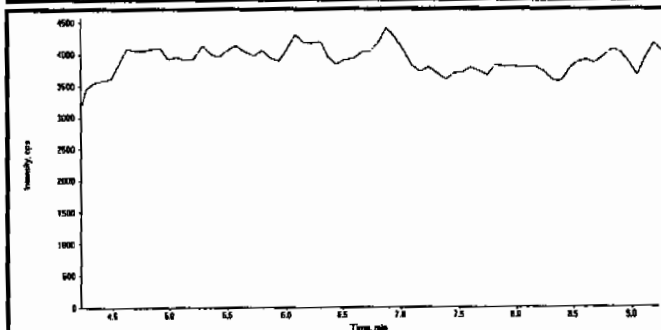
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	21100000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	101000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

done 03/24/10
Lar 3/24/10

Data File	EXP0312036.wiff	Acquisition Date	3/12/2010 11:22:47 PM
Sample Name	XIBLK08	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC

Printed: 23/03/2010 4:08:00 PM

GEL SOP GL-OA-E-056, Method 8321A-Modified

LCMSMS#3

Data File	EXP0312036.wiff	Acquisition Date	3/12/2010 11:22:47 PM
Sample Name	XIBLK08	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

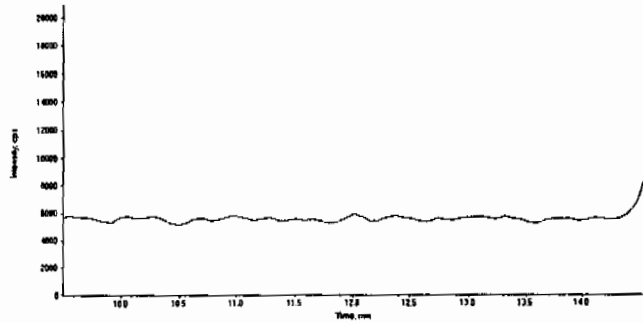
	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

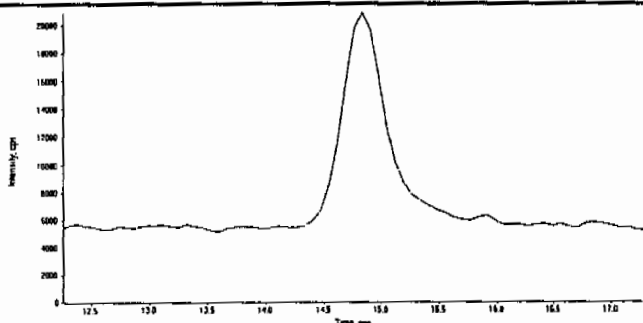
	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

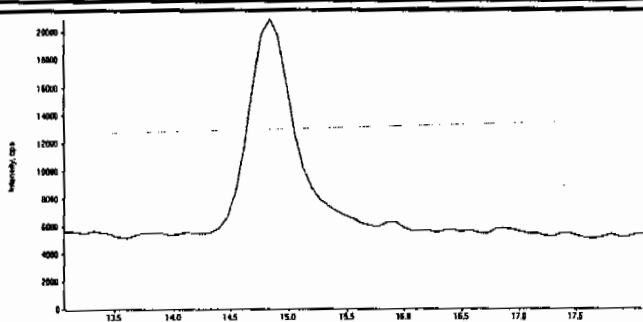
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

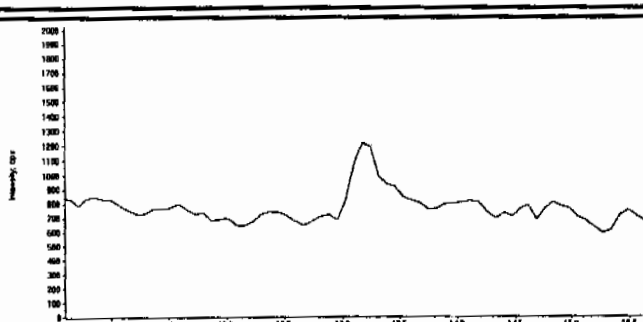
	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312036.wiff	Acquisition Date	3/12/2010 11:22:47 PM
Sample Name	XIBLK08	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312036.wiff	Acquisition Date	3/12/2010 11:22:47 PM
Sample Name	XIBLK08	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

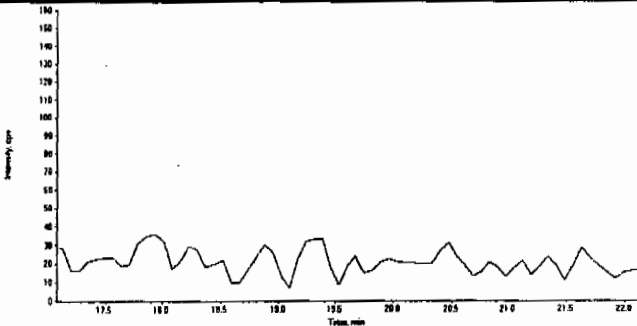
	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC

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GEL SOP GL-OA-E-056, Method 8321A-Modified

LCMSMS#3

Data File	EXP0312036.wiff	Acquisition Date	3/12/2010 11:22:47 PM
Sample Name	XIBLK08	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 13-MAR-10 05:06

GEL Data File: EXP0312049.wiff

Instrument ID: LCMSMS

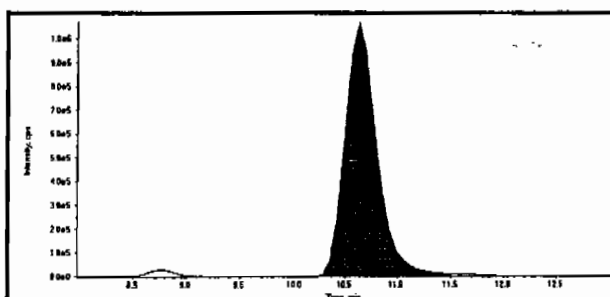
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
DNX	0	0
MXN	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
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
3,4-Dinitrotoluene	0	0

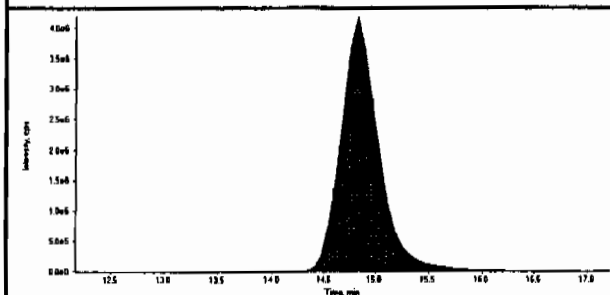
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

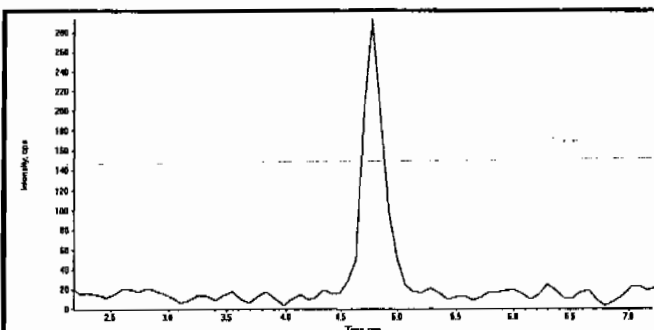
Data File	EXP0312049.wiff	Acquisition Date	3/13/2010 5:06:02 AM
Sample Name	XIBLK09	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



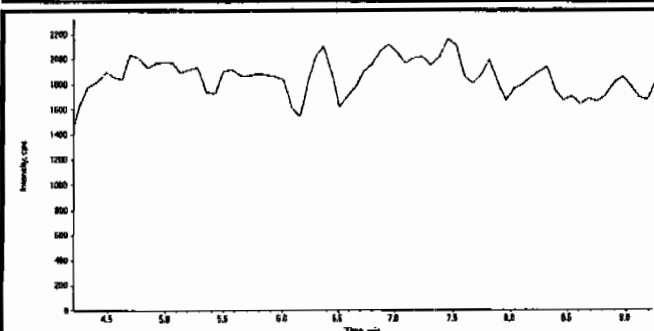
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	23400000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	108000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



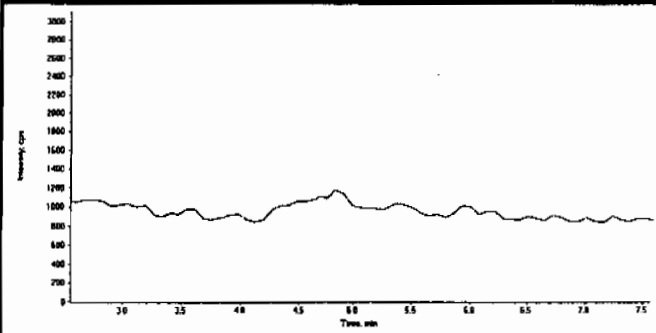
Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

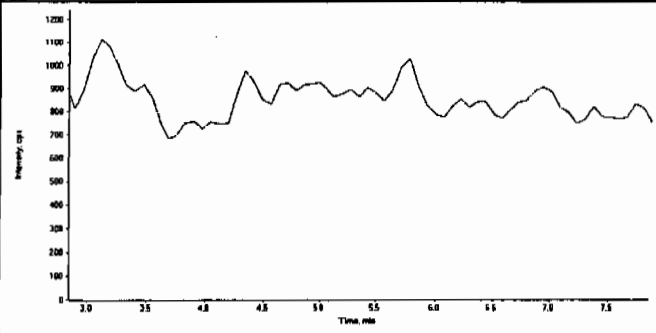


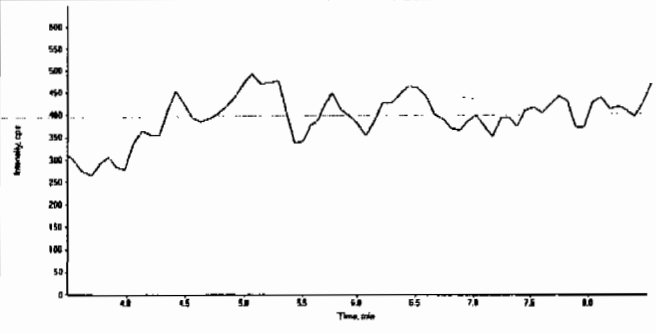
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

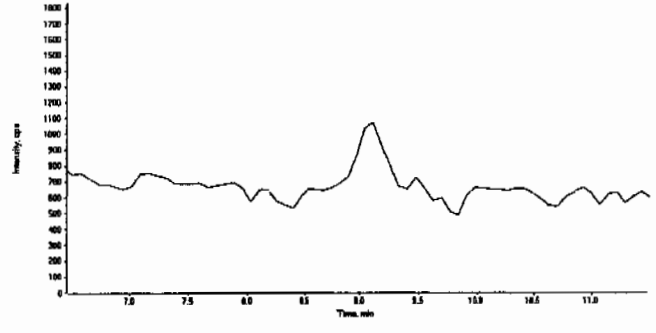
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Data File	EXP0312049.wiff	Acquisition Date	3/13/2010 5:06:02 AM
Sample Name	XIBLK09	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312049.wiff	Acquisition Date	3/13/2010 5:06:02 AM
Sample Name	XIBLK09	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

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Printed: 23/03/2010 4:08:00 PM

GEL SOP GL-OA-E-056, Method 8321A-Modified

LCMSMS#3

Data File	EXP0312049.wiff	Acquisition Date	3/13/2010 5:06:02 AM
Sample Name	XIBLK09	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312049.wiff	Acquisition Date	3/13/2010 5:06:02 AM
Sample Name	XIBLK09	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

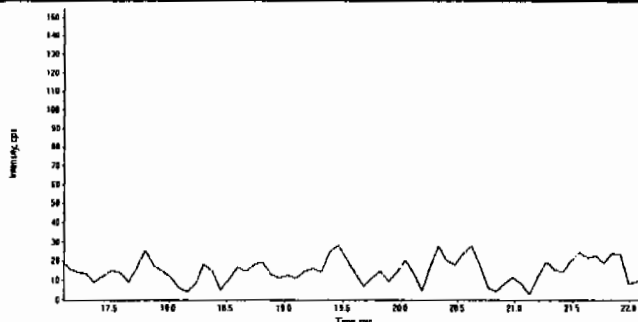
	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC

GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM

LCMSMS#3

Data File	EXP0312049.wiff	Acquisition Date	3/13/2010 5:06:02 AM
Sample Name	XIBLK09	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 13-MAR-10 07:44

GEL Data File: EXP0312055.wiff

Instrument ID: LCMSMS

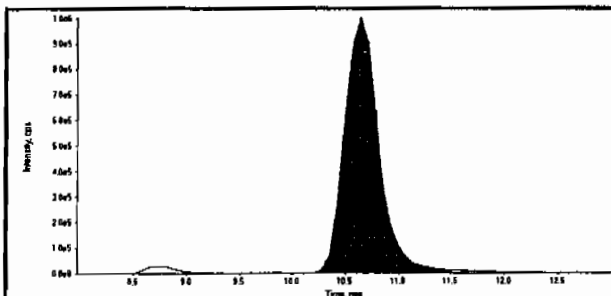
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
DNX	0	0
MNX	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
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

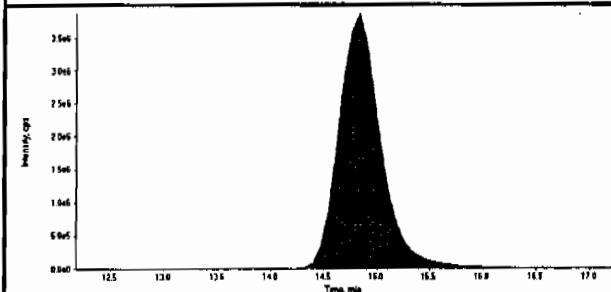
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

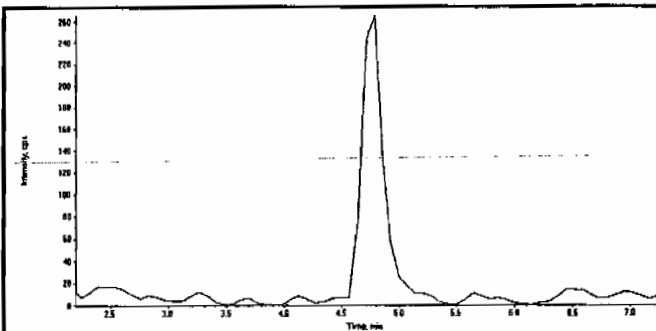
Data File	EXP0312055.wiff	Acquisition Date	3/13/2010 7:44:16 AM
Sample Name	XIBLK10	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



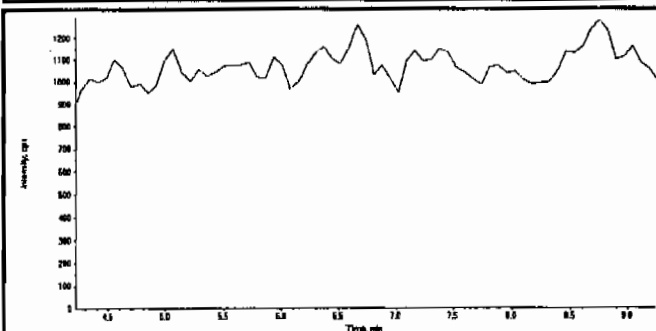
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	22700000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	106000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



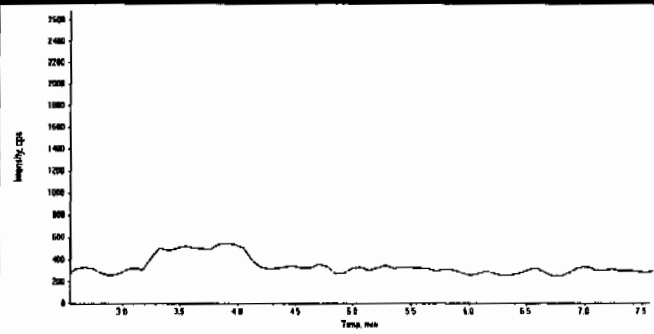
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

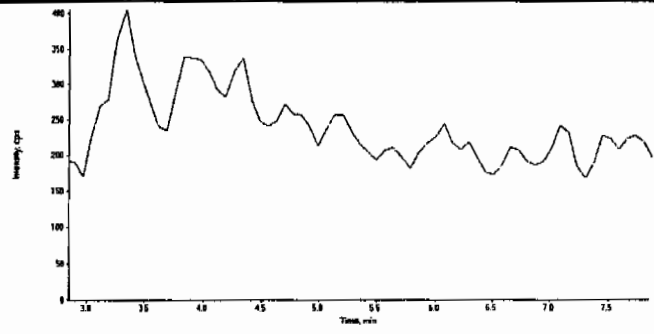
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HMC 03/24/10
LER 3/24/10

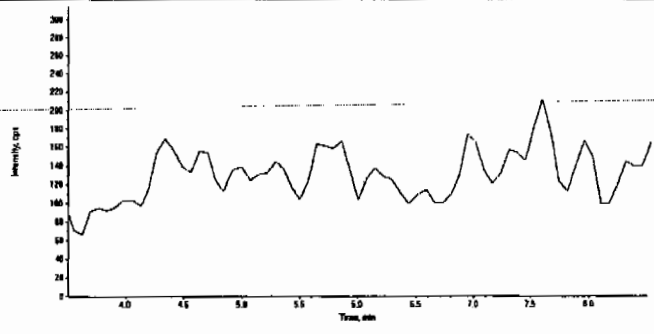
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

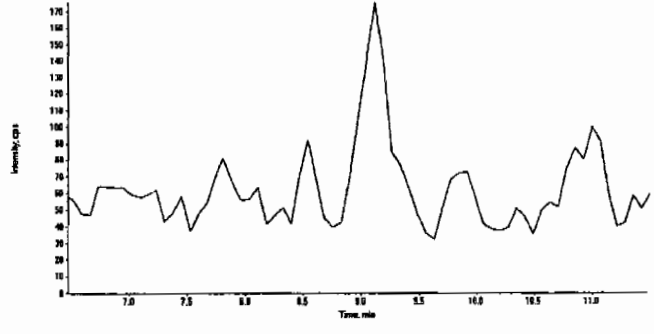
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312055.wiff	Acquisition Date	3/13/2010 7:44:16 AM
Sample Name	XIBLK10	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312055.wiff	Acquisition Date	3/13/2010 7:44:16 AM
Sample Name	XIBLK10	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312055.wiff	Acquisition Date	3/13/2010 7:44:16 AM
Sample Name	XIBLK10	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

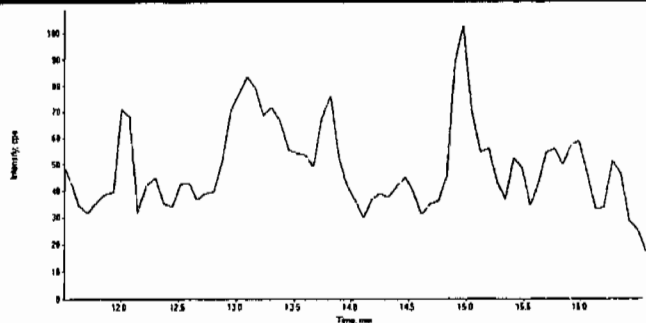
	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

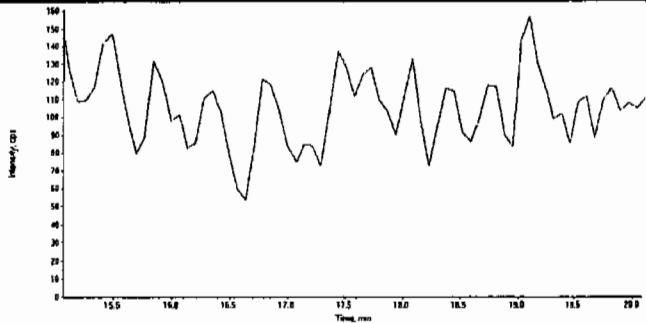
	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

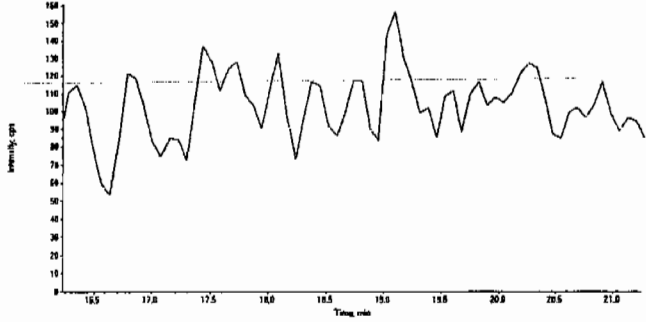
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

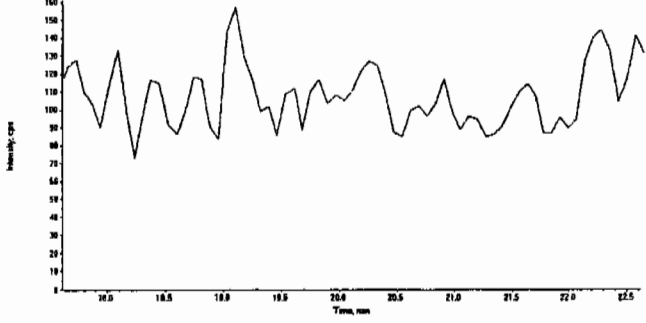
	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312055.wiff	Acquisition Date	3/13/2010 7:44:16 AM
Sample Name	XIBLK10	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

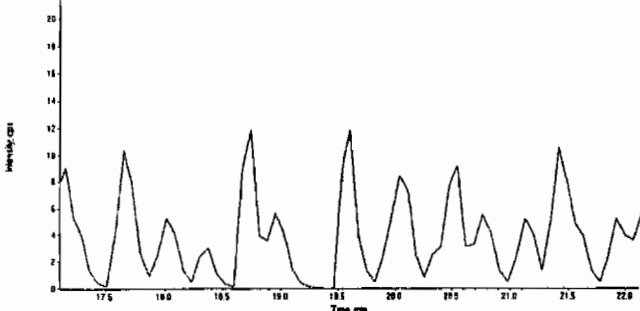
	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC

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GEL SOP GL-OA-E-056, Method 8321A-Modified

LCMSMS#3

Data File	EXP0312055.wiff	Acquisition Date	3/13/2010 7:44:16 AM
Sample Name	XIBLK10	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 13-MAR-10 10:49

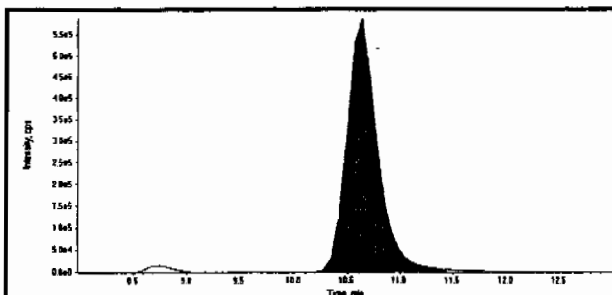
GEL Data File: EXP0312062.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

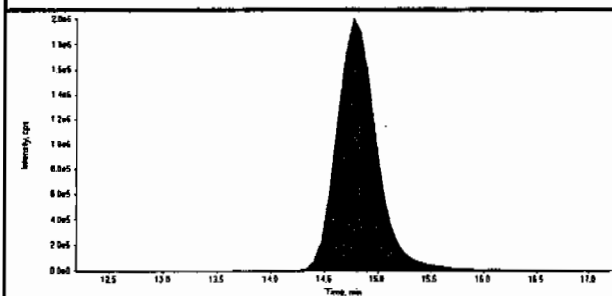
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
DNX	0	0
MNX	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Data File	EXP0312062.wiff	Acquisition Date	3/13/2010 10:49:23 AM
Sample Name	XIBLK11	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



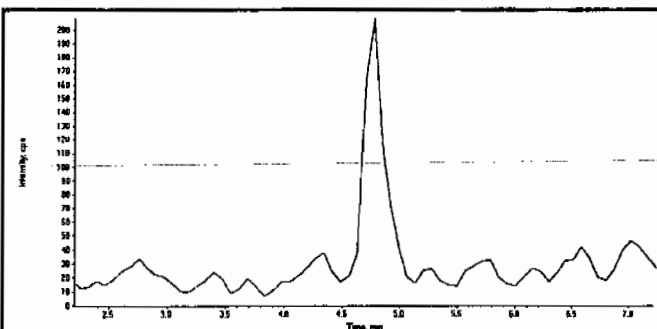
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	11800000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

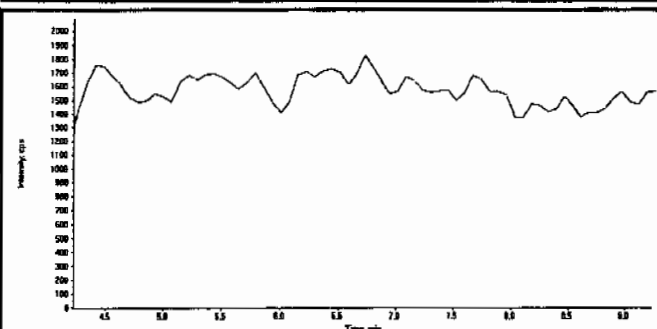


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	52500000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



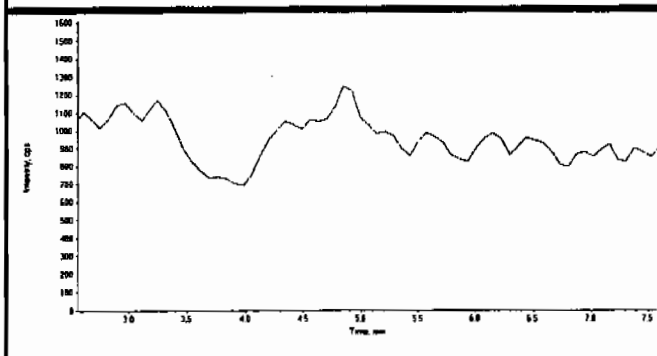
Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



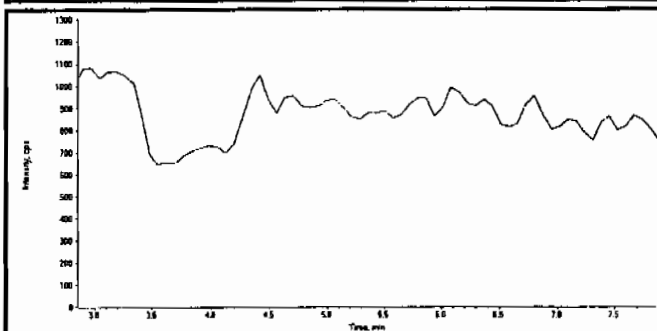
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

OK 3/24/10 *Amc 03/24/10*

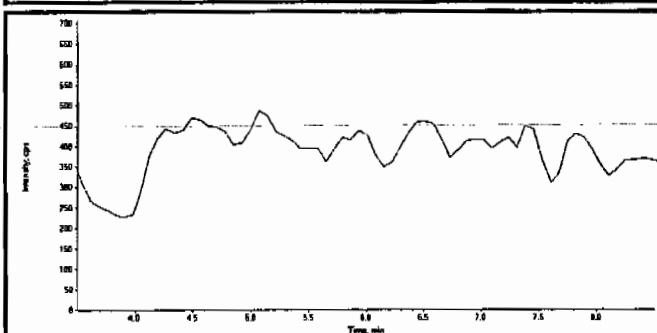
Data File	EXP0312062.wiff	Acquisition Date	3/13/2010 10:49:23 AM
Sample Name	XIBLK11	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



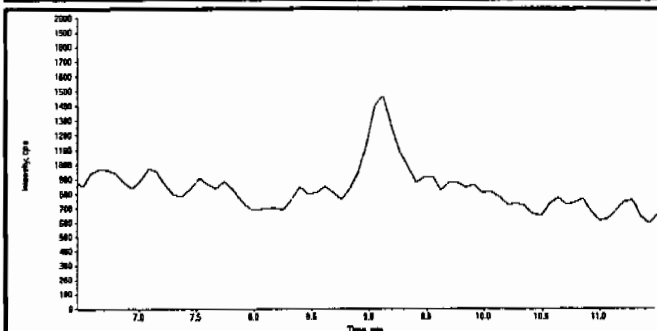
Compound Name:	TNX (219.0/45.0 amu)
Expected RT:	5.06
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	DNX (235.0/45.0 amu)
Expected RT:	5.35
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	MNX (251.0/46.0 amu)
Expected RT:	6.00
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
Expected RT:	8.97
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312062.wiff	Acquisition Date	3/13/2010 10:49:23 AM
Sample Name	XIBLK11	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312062.wiff	Acquisition Date	3/13/2010 10:49:23 AM
Sample Name	XIBLK11	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

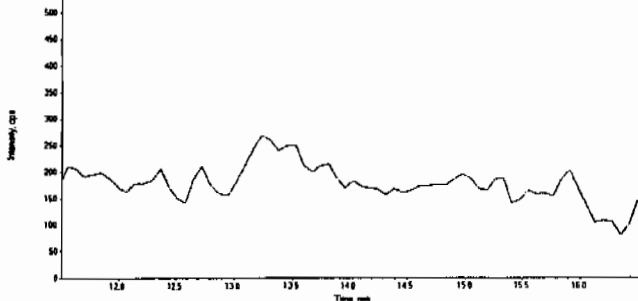
	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

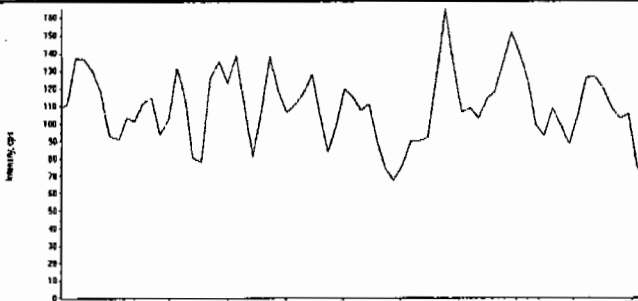
	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

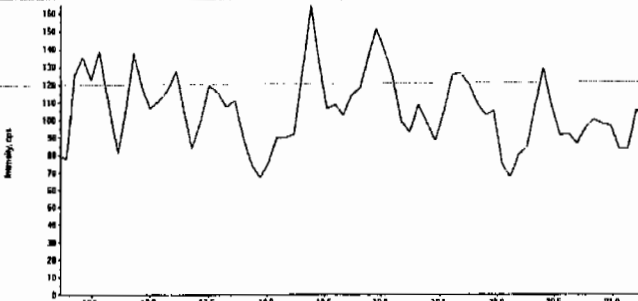
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

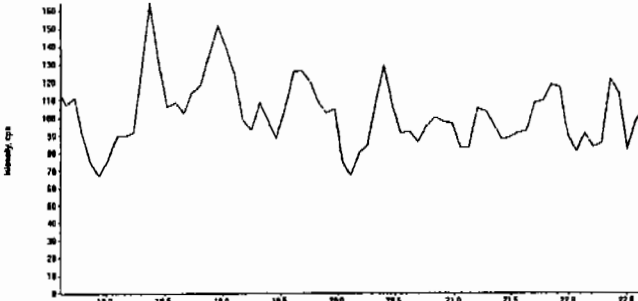
	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312062.wiff	Acquisition Date	3/13/2010 10:49:23 AM
Sample Name	XIBLK11	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

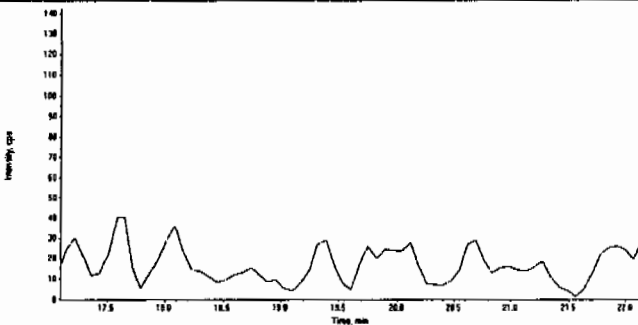
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312062.wiff	Acquisition Date	3/13/2010 10:49:23 AM
Sample Name	XIBLK11	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK12

Analysis Date: 13-MAR-10 16:32

GEL Data File: EXP0312075.wiff

Instrument ID: LCMSMS

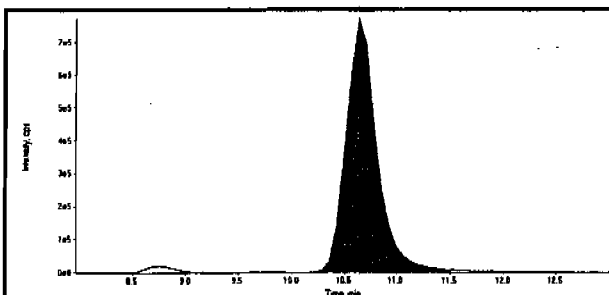
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
DNX	0	0
MXN	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
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

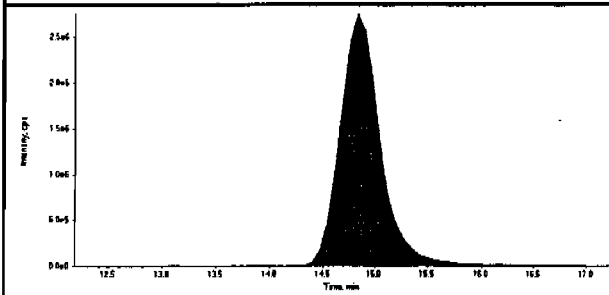
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

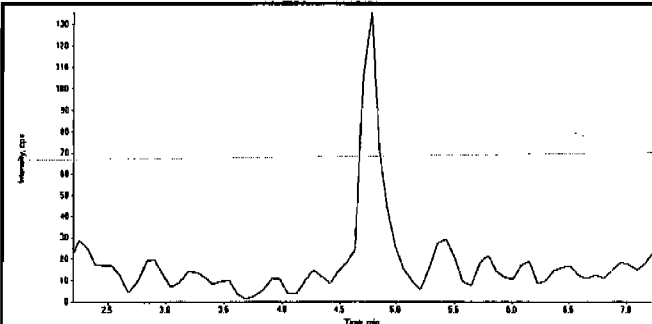
Data File	EXP0312075.wiff	Acquisition Date	3/13/2010 4:32:48 PM
Sample Name	XIBLK12	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



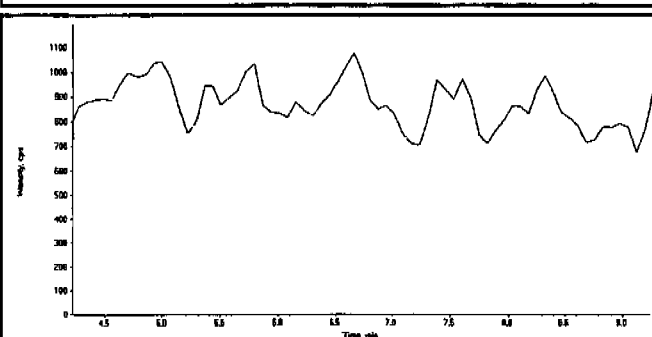
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	16100000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	74800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



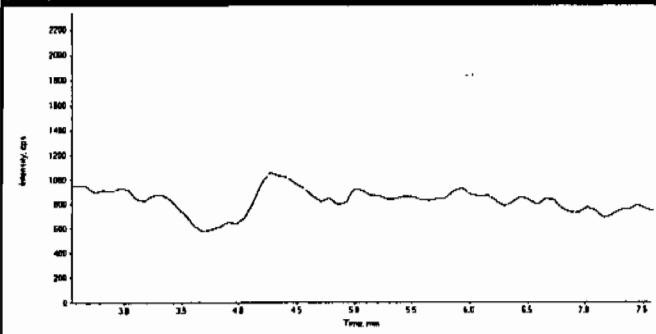
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

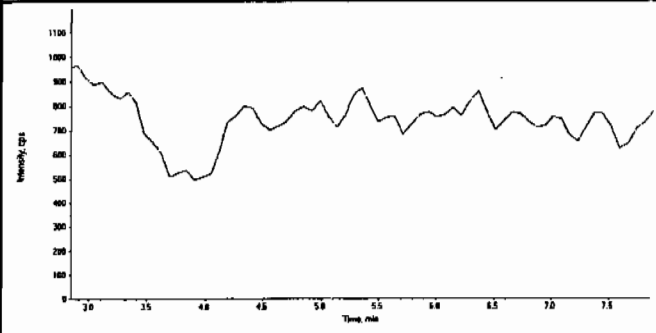
*done 03/24/10
LER
3/24/10*

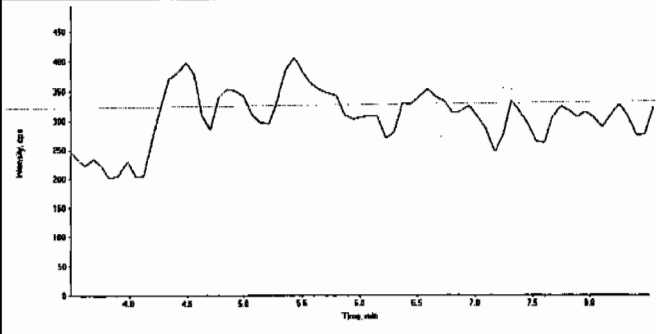
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

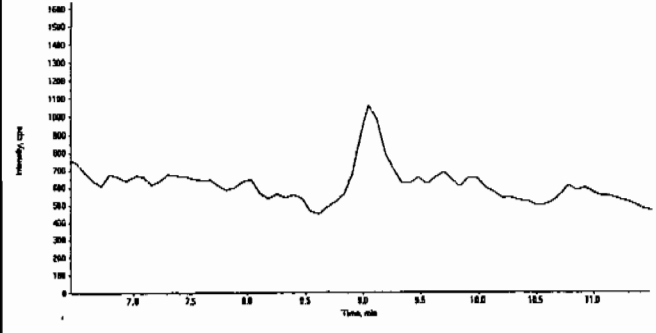
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312075.wiff	Acquisition Date	3/13/2010 4:32:48 PM
Sample Name	XIBLK12	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312075.wiff	Acquisition Date	3/13/2010 4:32:48 PM
Sample Name	XIBLK12	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312075.wiff	Acquisition Date	3/13/2010 4:32:48 PM
Sample Name	XIBLK12	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

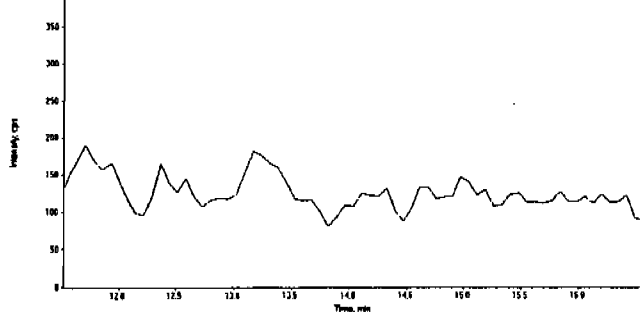
	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

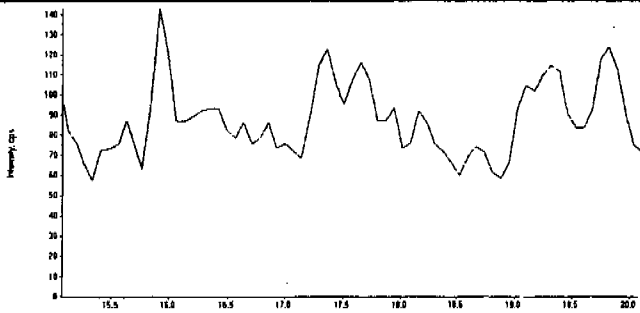
	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

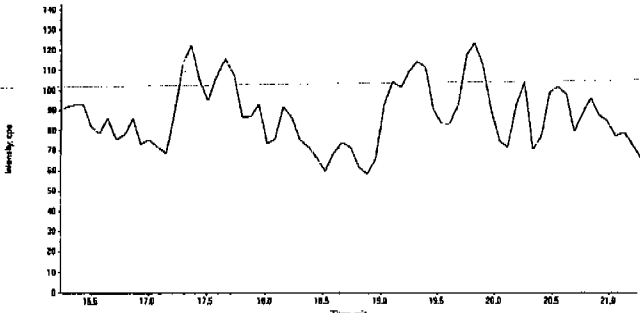
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

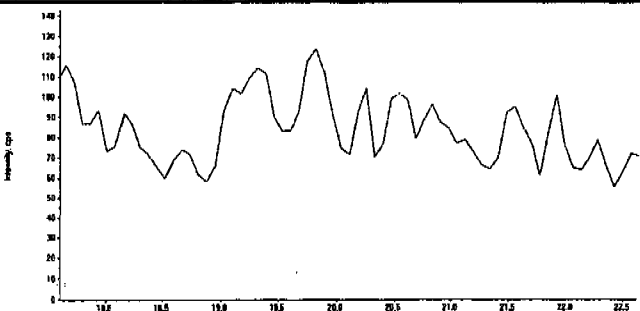
	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312075.wiff	Acquisition Date	3/13/2010 4:32:48 PM
Sample Name	XIBLK12	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

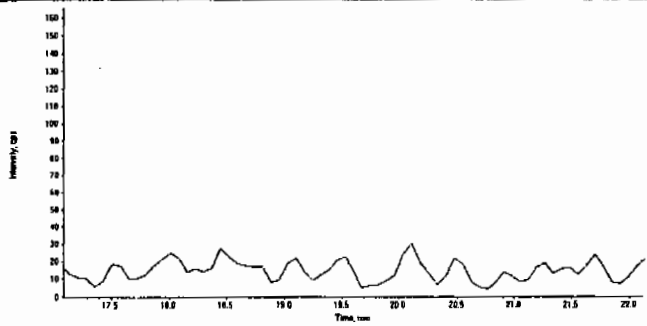
	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC

GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM

LCMSMS#3

Data File	EXP0312075.wiff	Acquisition Date	3/13/2010 4:32:48 PM
Sample Name	XIBLK12	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK13

Analysis Date: 13-MAR-10 22:16

GEL Data File: EXP0312088.wiff

Instrument ID: LCMSMS

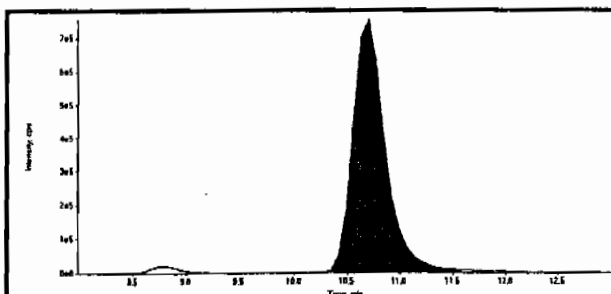
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
DNX	0	0
MNX	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
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

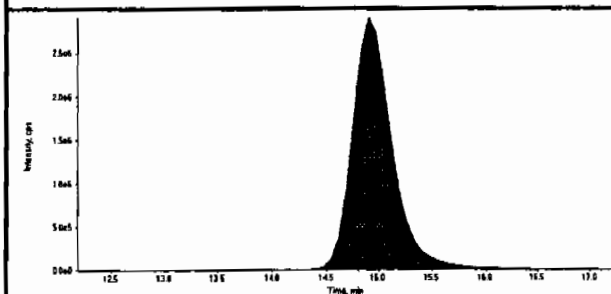
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

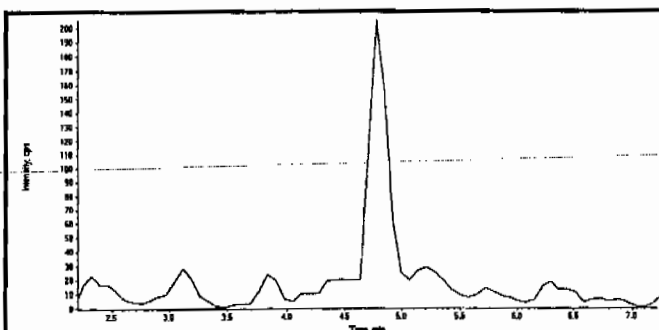
Data File	EXP0312088.wiff	Acquisition Date	3/13/2010 10:16:46 PM
Sample Name	XIBLK13	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



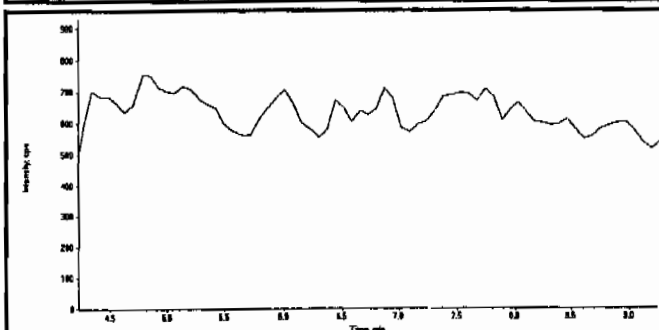
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.70
Area Counts:	16500000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	77300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

Handwritten signature and date:
3/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312088.wiff	Acquisition Date	3/13/2010 10:16:46 PM
Sample Name	XIBLK13	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312088.wiff	Acquisition Date	3/13/2010 10:16:46 PM
Sample Name	XIBLK13	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312088.wiff	Acquisition Date	3/13/2010 10:16:46 PM
Sample Name	XIBLK13	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

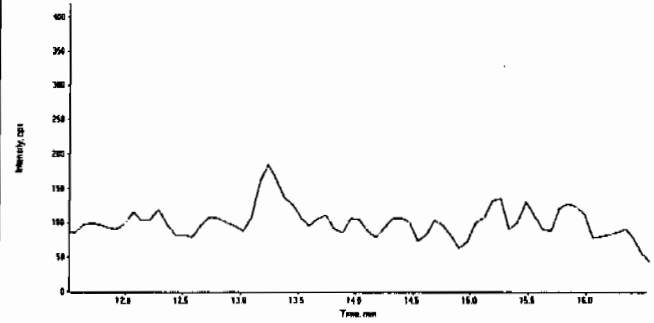
	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

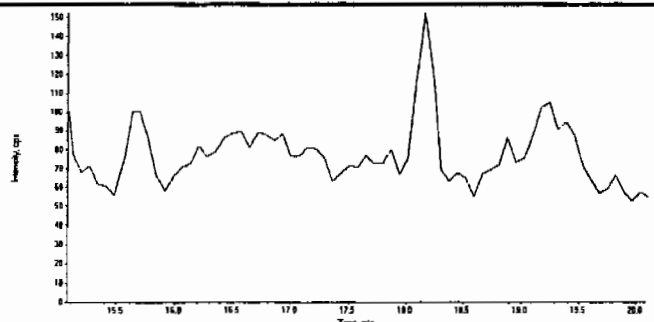
	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

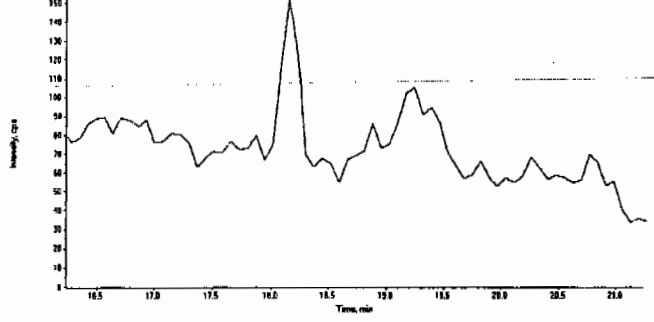
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

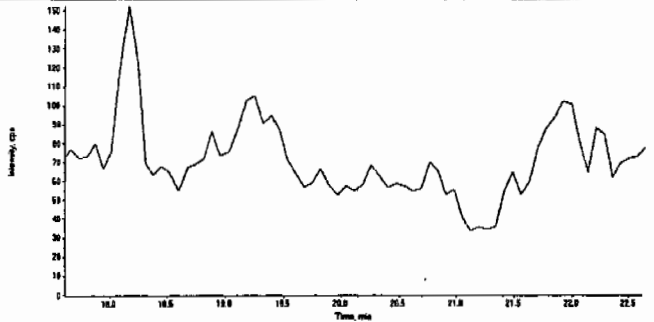
	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

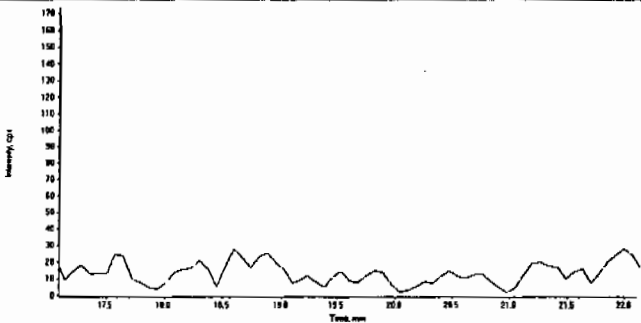
Data File	EXP0312088.wiff	Acquisition Date	3/13/2010 10:16:46 PM
Sample Name	XIBLK13	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312088.wiff	Acquisition Date	3/13/2010 10:16:46 PM
Sample Name	XIBLK13	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK14

Analysis Date: 14-MAR-10 04:34

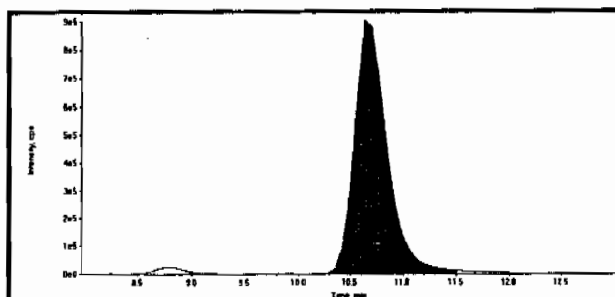
GEL Data File: EXP0312100.wiff

Instrument ID: LCMSMS

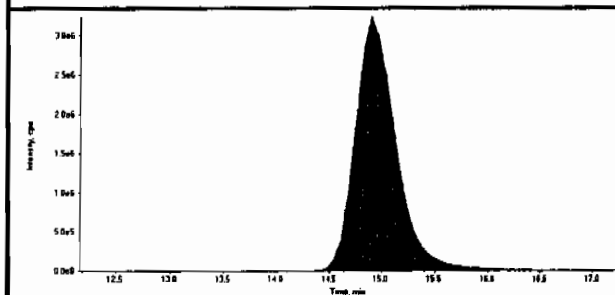
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
DNX	0	0
MNX	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
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

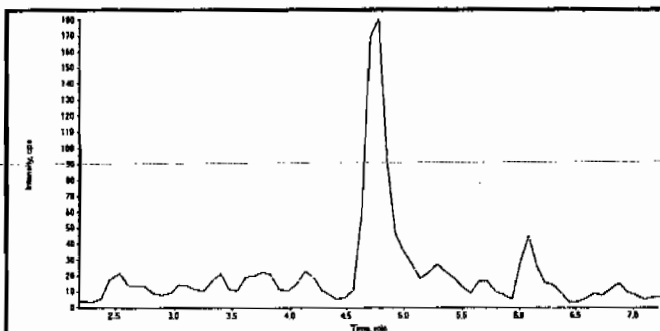
Data File	EXP0312100.wiff	Acquisition Date	3/14/2010 4:34:03 AM
Sample Name	XIBLK14	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



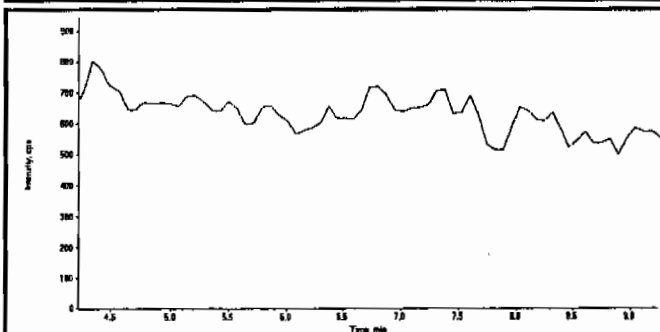
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	19800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	87600000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



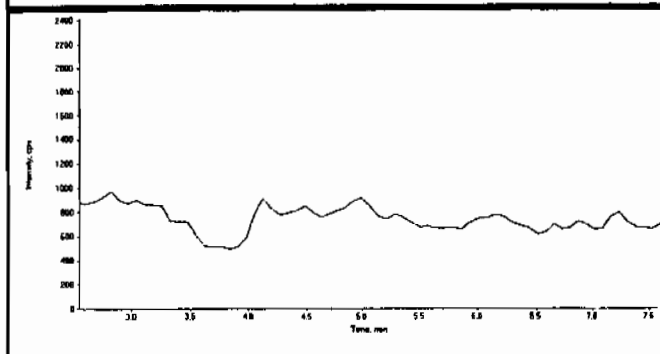
Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



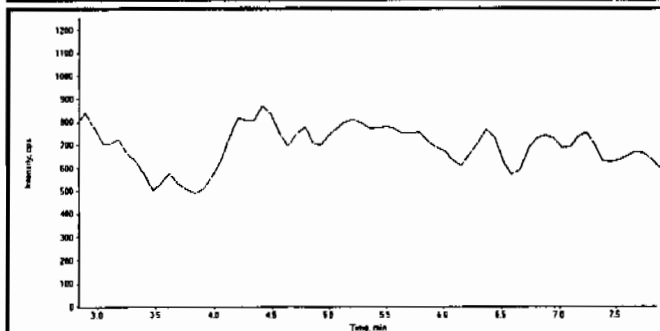
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

Handwritten:
3/12/10
3/12/10

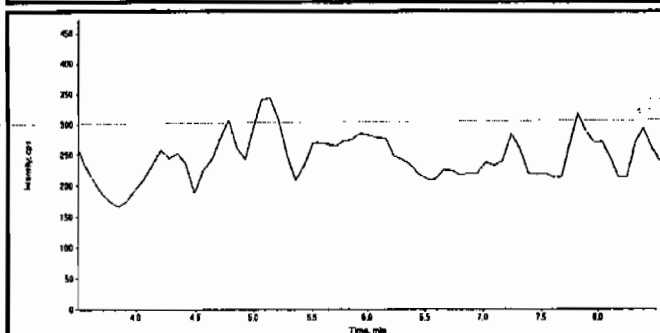
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Sample Name	XIBLK14	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



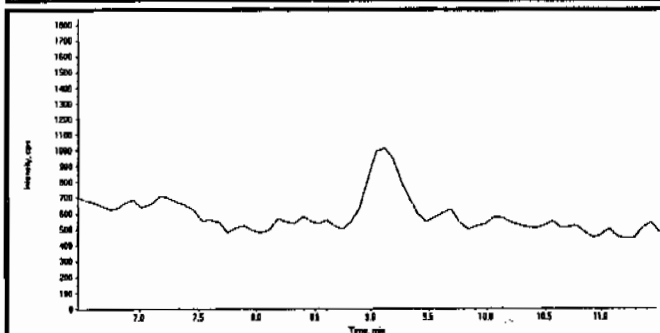
Compound Name:	TNX (219.0/45.0 amu)
Expected RT:	5.06
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	DNX (235.0/45.0 amu)
Expected RT:	5.35
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	MNX (251.0/46.0 amu)
Expected RT:	6.00
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
Expected RT:	8.97
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312100.wiff	Acquisition Date	3/14/2010 4:34:03 AM
Sample Name	XIBLK14	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312100.wiff	Acquisition Date	3/14/2010 4:34:03 AM
Sample Name	XIBLK14	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312100.wiff	Acquisition Date	3/14/2010 4:34:03 AM
Sample Name	XIBLK14	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

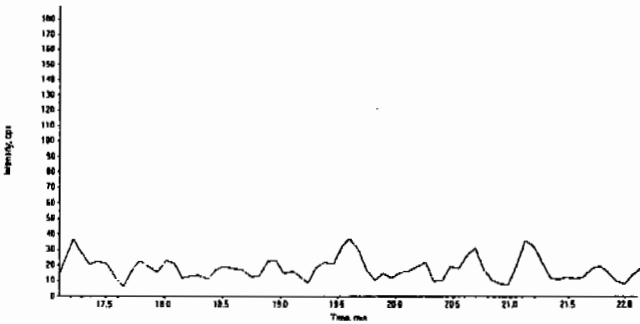
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312100.wiff	Acquisition Date	3/14/2010 4:34:03 AM
Sample Name	XIBLK14	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK15

Analysis Date: 14-MAR-10 06:46

GEL Data File: EXP0312105.wiff

Instrument ID: LCMSMS

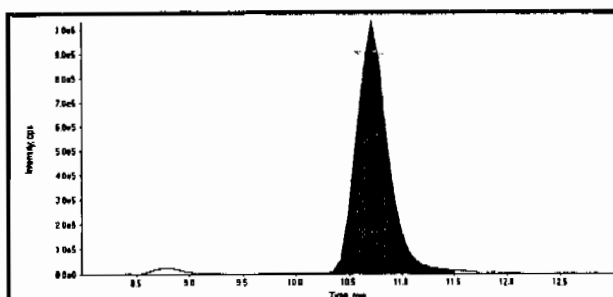
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
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
1,3,5-Trinitrobenzene	0	0
3,4-Dinitrotoluene	0	0
DNX	0	0
MNX	0	0
TNX	0	0

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

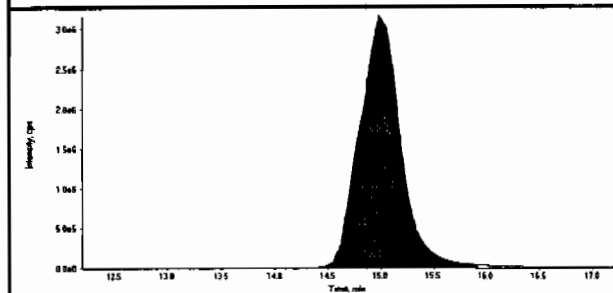
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312105.wiff	Acquisition Date	3/14/2010 6:46:10 AM
Sample Name	XIBLK15	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



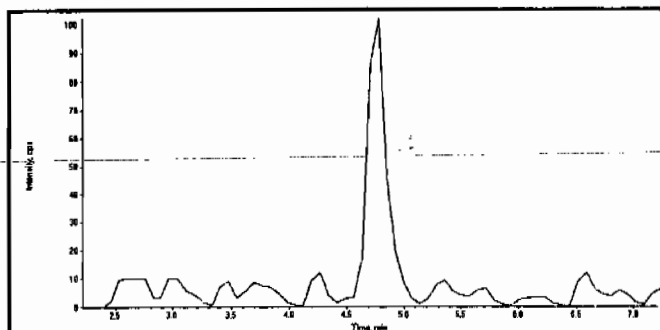
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.70
Area Counts:	21200000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

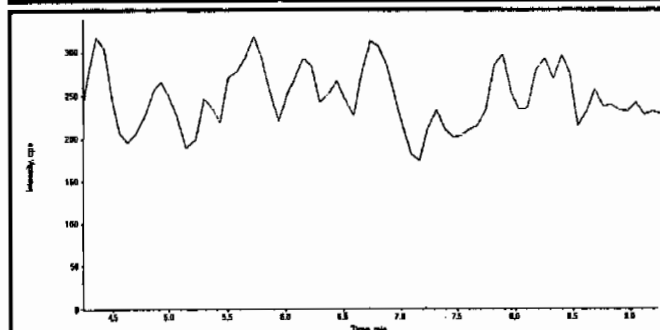


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	15.00
Area Counts:	86000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

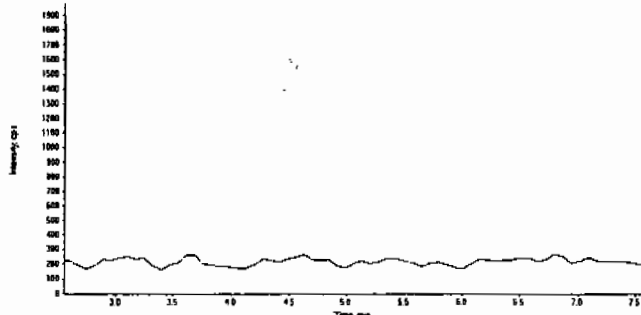
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03/24/10

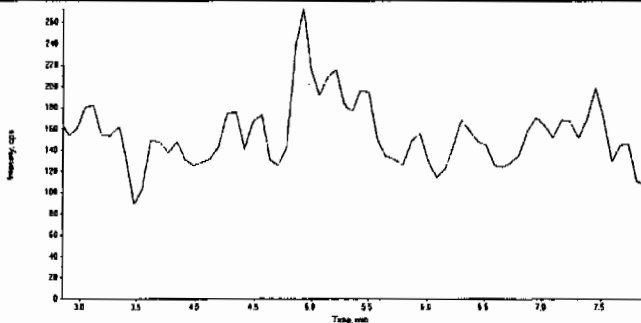
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3/24/10

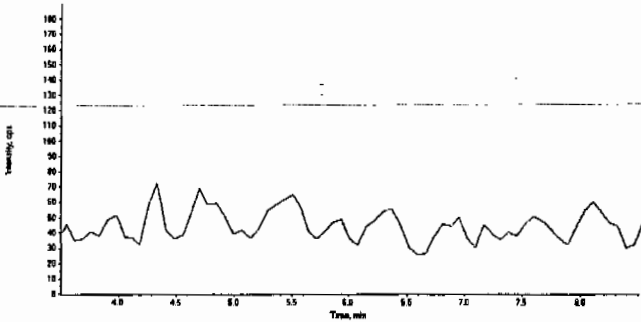
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

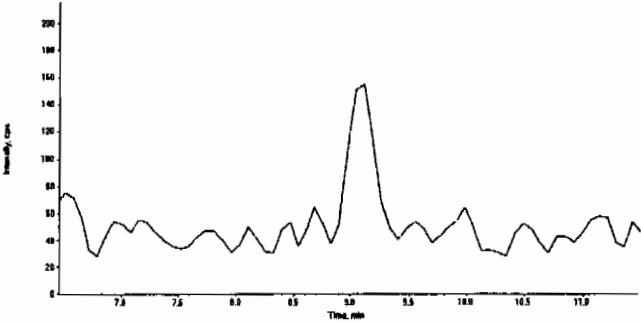
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312105.wiff	Acquisition Date	3/14/2010 6:46:10 AM
Sample Name	XIBLK15	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

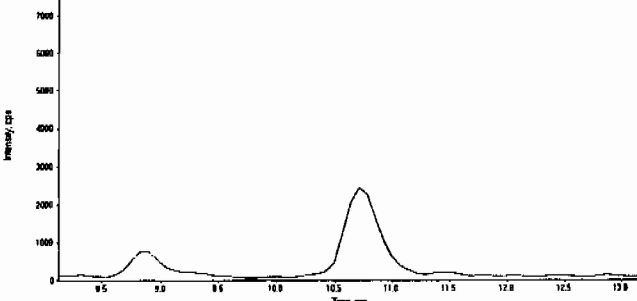
	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

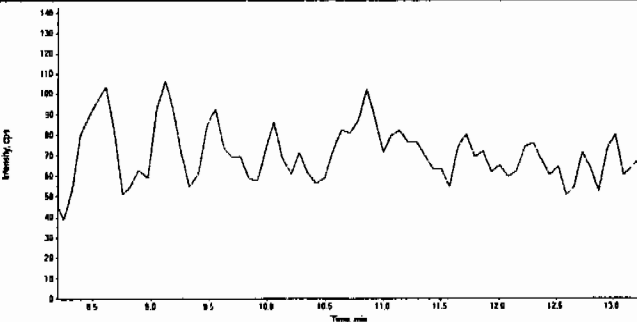
	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

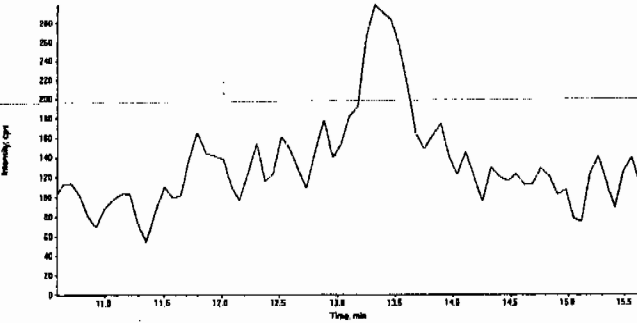
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

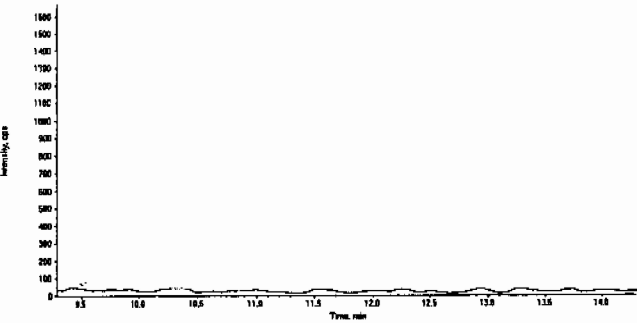
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312105.wiff	Acquisition Date	3/14/2010 6:46:10 AM
Sample Name	XIBLK15	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

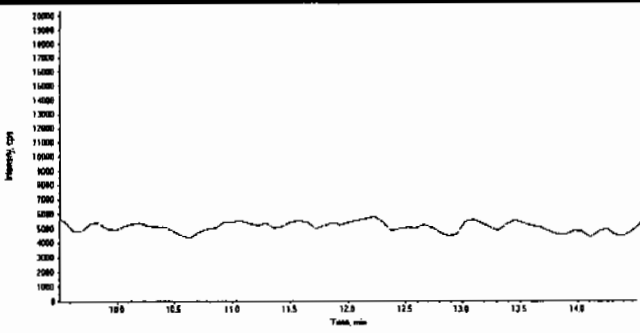
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

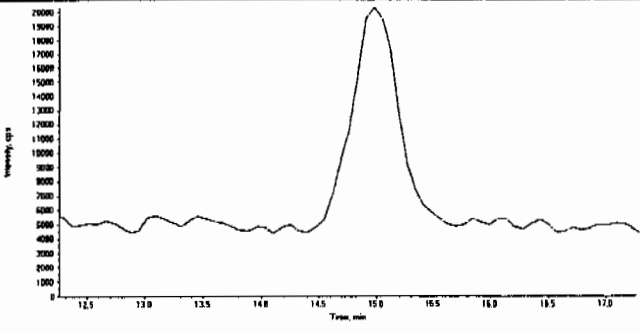
	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

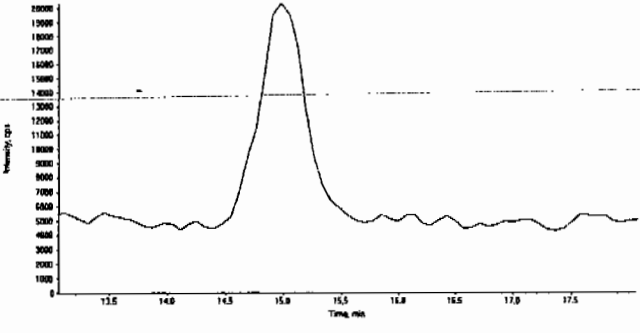
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

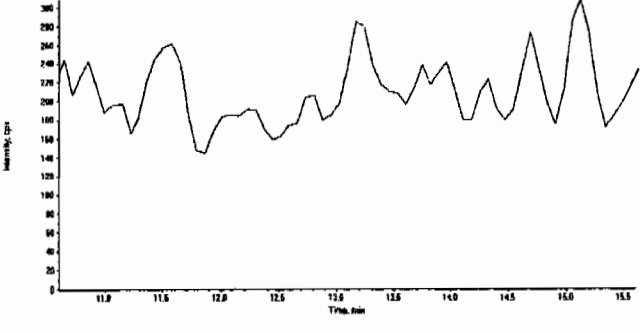
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312105.wiff	Acquisition Date	3/14/2010 6:46:10 AM
Sample Name	XIBLK15	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312105.wiff	Acquisition Date	3/14/2010 6:46:10 AM
Sample Name	XIBLK15	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

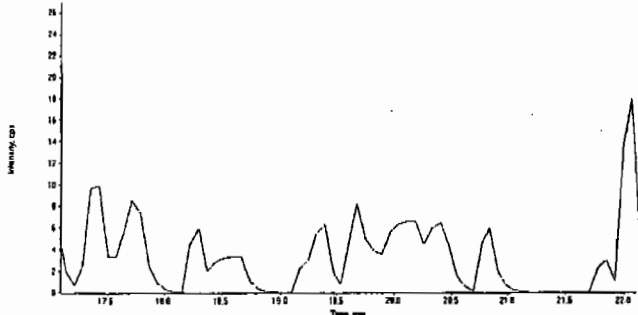
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312105.wiff	Acquisition Date	3/14/2010 6:46:10 AM
Sample Name	XIBLK15	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK16

Analysis Date: 14-MAR-10 09:50

GEL Data File: EXP0312112.wiff

Instrument ID: LCMSMS

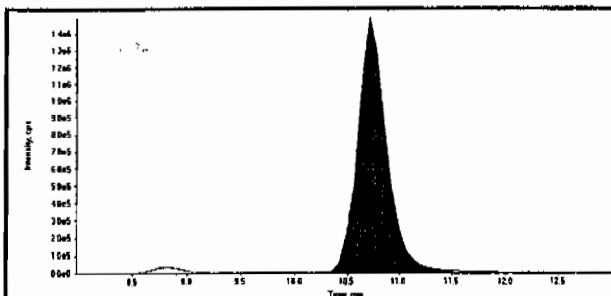
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
DNX	0	0
MNX	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
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

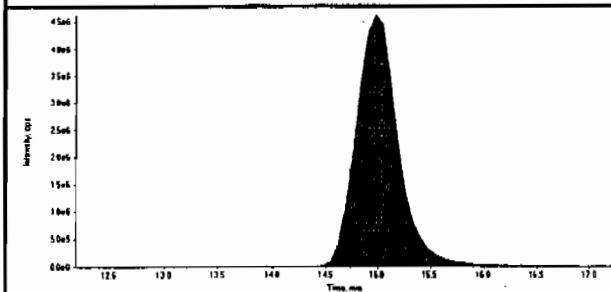
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

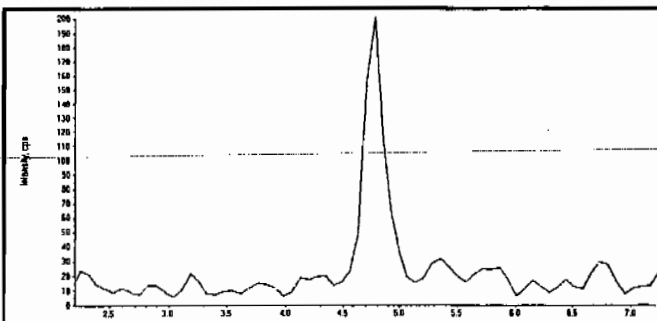
Data File	EXP0312112.wiff	Acquisition Date	3/14/2010 9:50:39 AM
Sample Name	XIBLK16	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



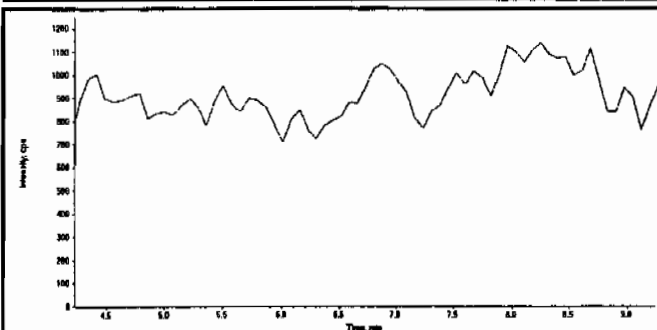
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.70
Area Counts:	28800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	15.00
Area Counts:	131000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

Handwritten: OK 3/24/10
HMX 03/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312112.wiff	Acquisition Date	3/14/2010 9:50:39 AM
Sample Name	XIBLK16	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312112.wiff	Acquisition Date	3/14/2010 9:50:39 AM
Sample Name	XIBLK16	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312112.wiff	Acquisition Date	3/14/2010 9:50:39 AM
Sample Name	XIBLK16	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	15.0
	Area Counts:	7.53e+005
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

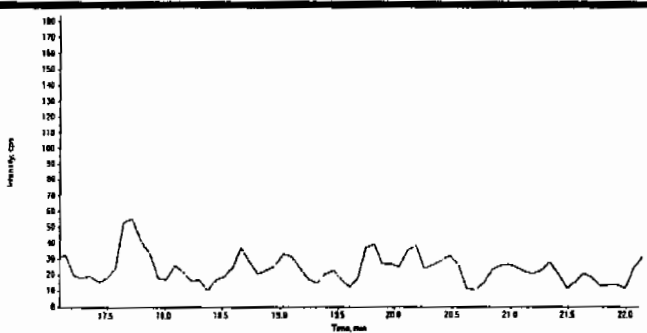
Data File	EXP0312112.wiff	Acquisition Date	3/14/2010 9:50:39 AM
Sample Name	XIBLK16	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

Data File	EXP0312112.wiff	Acquisition Date	3/14/2010 9:50:39 AM
Sample Name	XIBLK16	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

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 ODS(20)

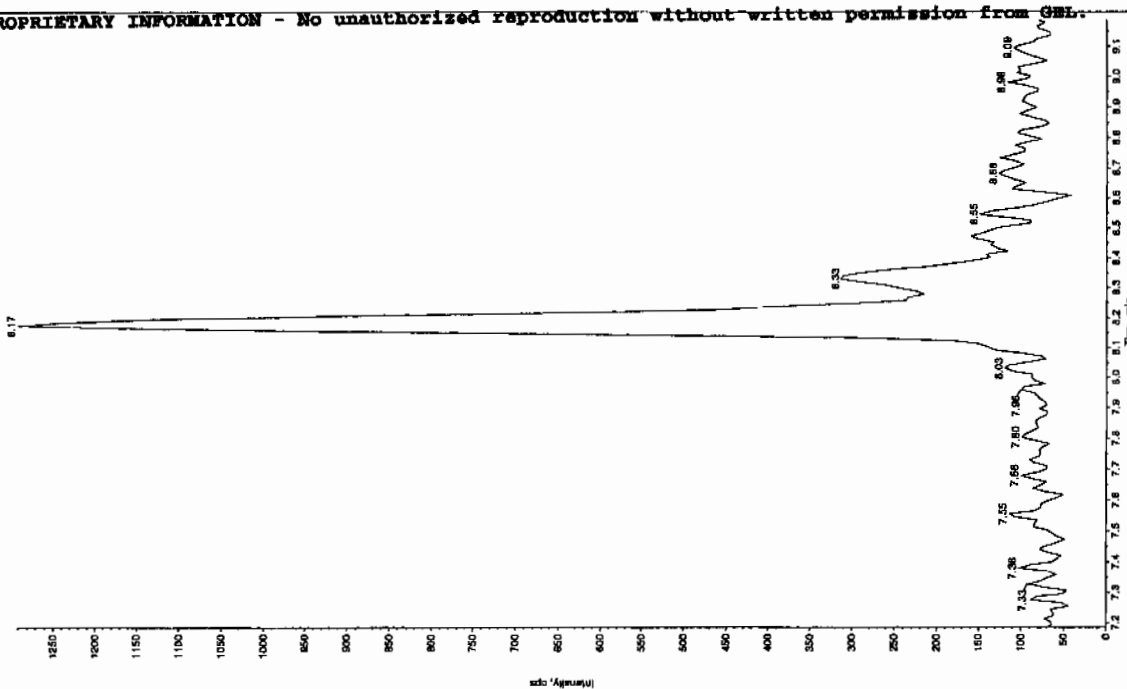
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	2.74
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

See 3/3/10

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Sample Name: "XBLK02" Sample ID: "TILLER" File: "EX503010010.wif"
Peak Name: "3x-Dinitrophenol" Mass(es): "182.046 0 amu"
Comment: "LCMSEXP_B" Annotation: "

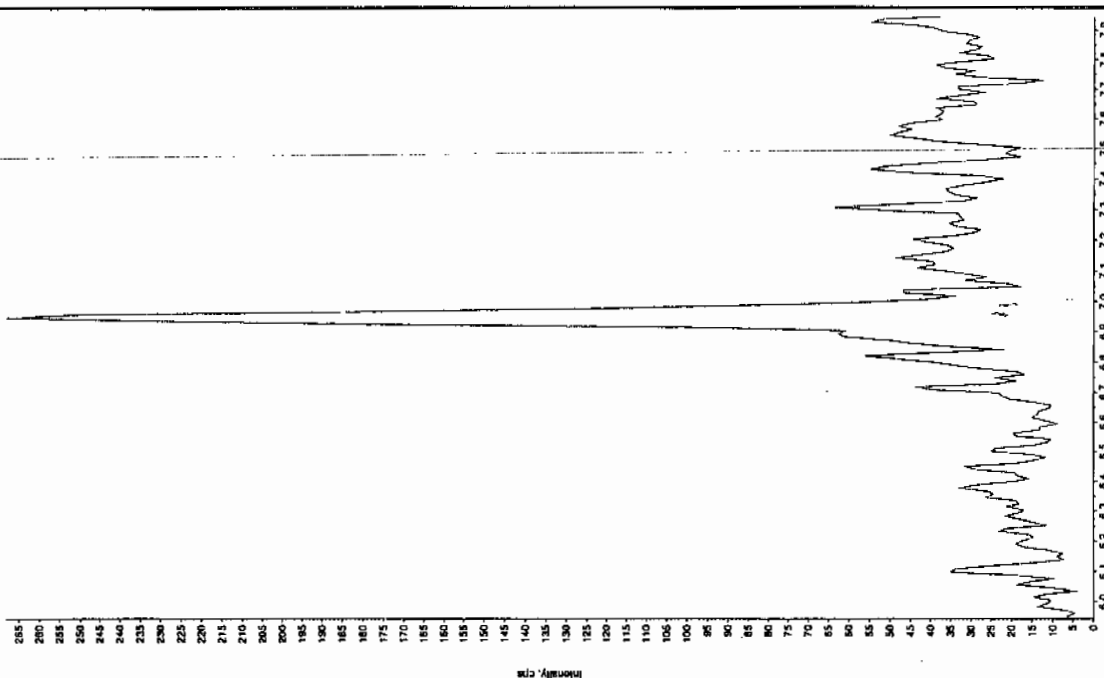
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 11:24:42 AM
Modified: No



#3000304/10

Sample Name: "WGLK02" Sample ID: "TILLER" File: "EX503010010.wif"
Peak Name: "TATB" Mass(es): "257.2204.9 amu"
Comment: "LCMSEXP_B" Annotation: "

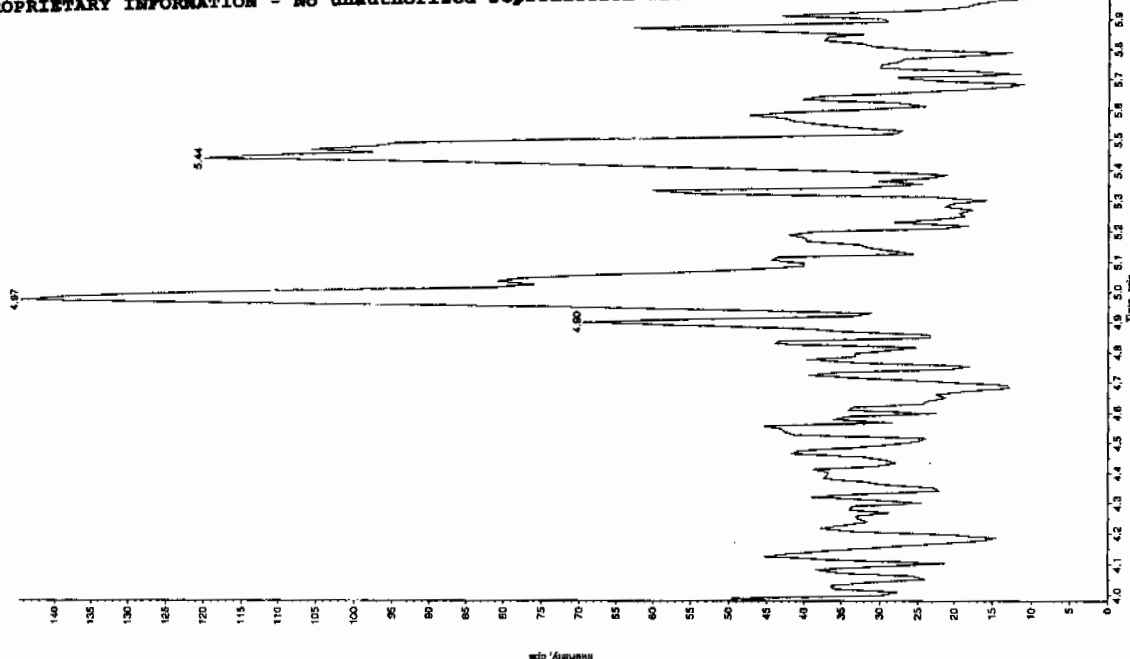
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 11:24:42 AM
Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

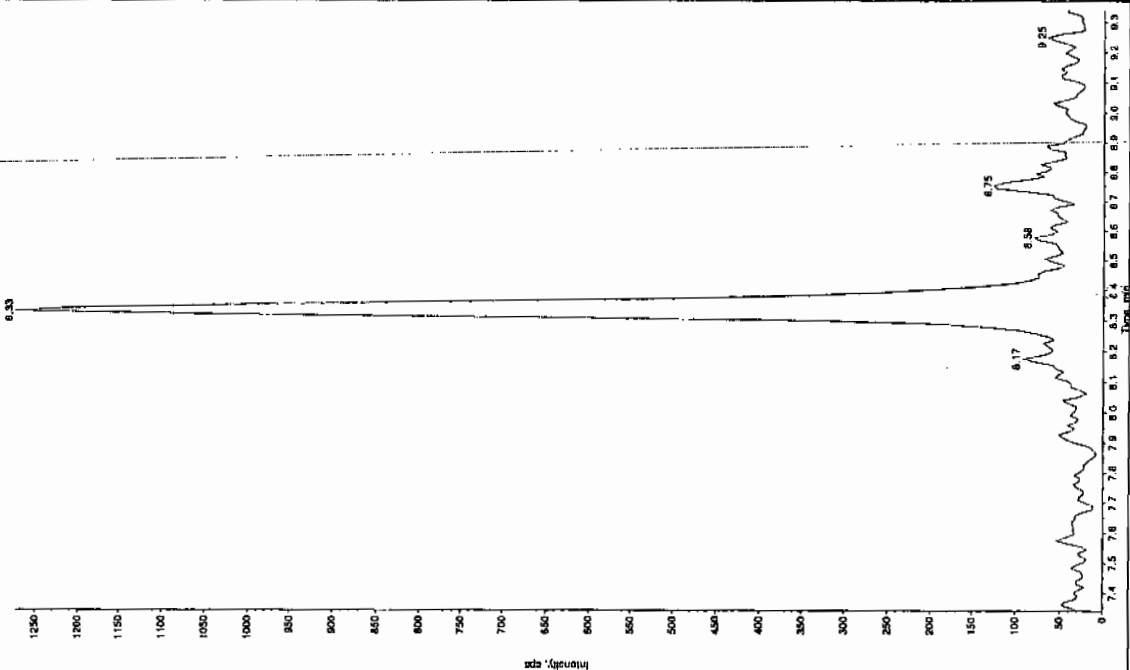
Sample Name: "XIBLX02" Sample ID: "1111ER" File: "EX503010010.wif"
 Peak Name: "25-Diamino-4-nitroindane" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 11:24:42 AM
 Modified: No



Sample Name: "XIBLX02" Sample ID: "1111ER" File: "EX503010010.wif"
 Peak Name: "34-Dinitroindane" Mass(es): "182.1751.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

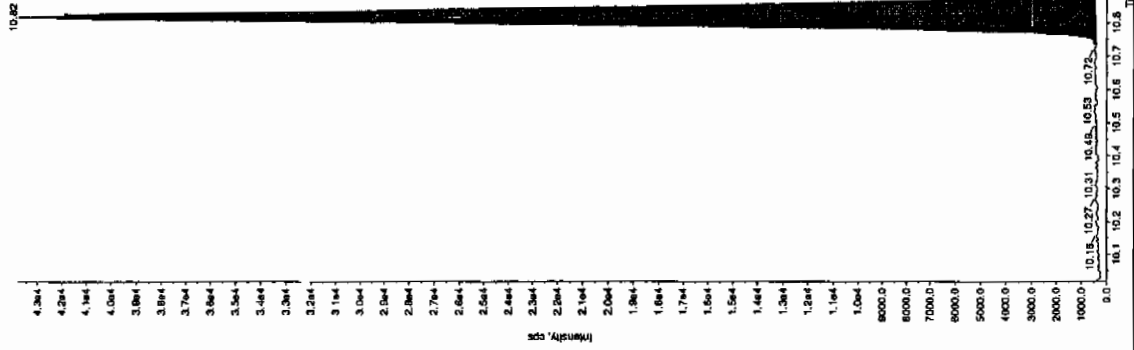
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 11:24:42 AM
 Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

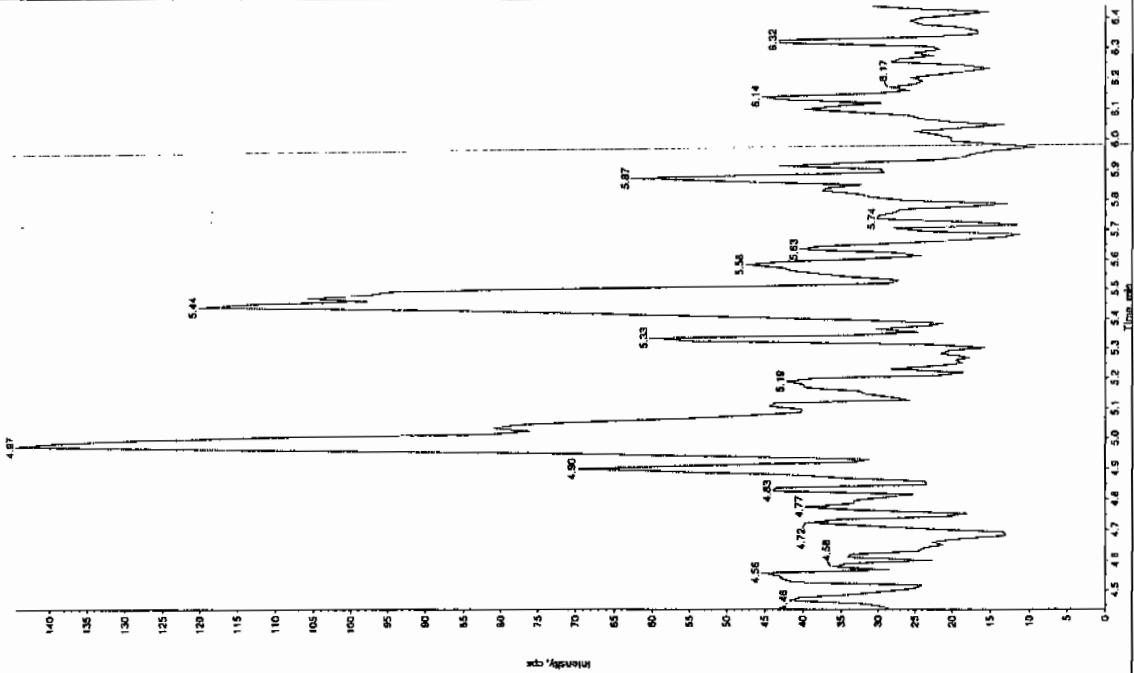
Sample Name: 'YBLK02' Sample ID: 'JLLEP' File: 'EX020010010.wiff'
 Peak Name: 'Int(cross) phospholipid' Mass(es): 353.191.0 amu
 Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: 2.74 ng/mL
 Calculated Conc: 3/1/2010
 Acq. Date: 11:24:42 AM
 Acq. Time: 11:24:42 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Kin. 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



Sample Name: 'YBLK02' Sample ID: 'JLLEP' File: 'EX020010010.wiff'
 Peak Name: '24-Diamino-6-oxoalkanoic' Mass(es): 196.046.0 amu
 Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.60 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 11:24:42 AM
 Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 01-MAR-10 11:56

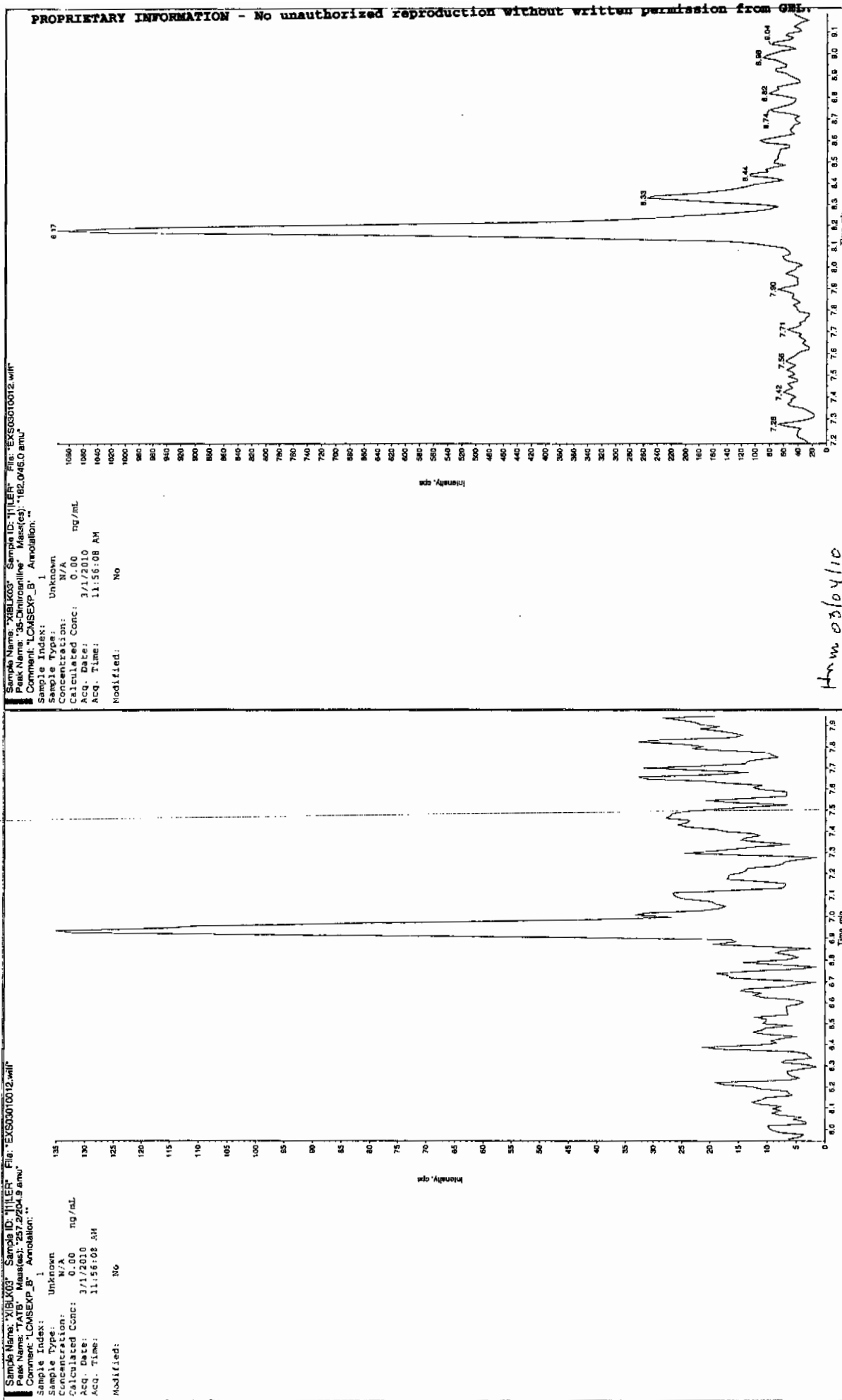
GEL Data File: EXS03010012.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

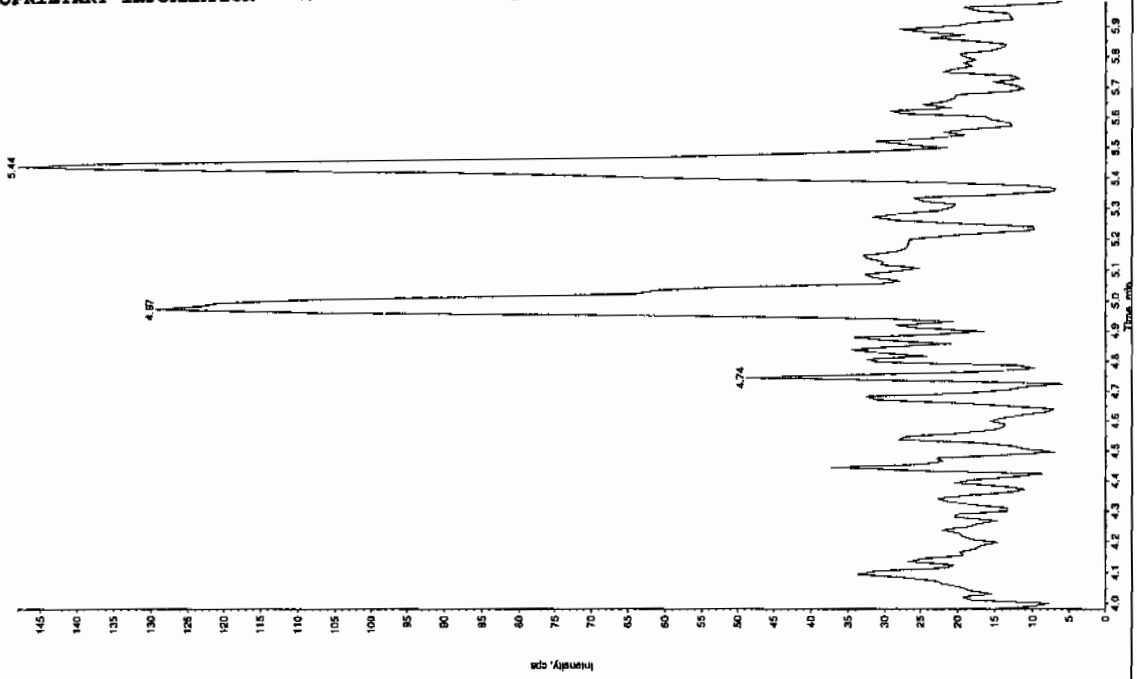
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

See 3/3/10

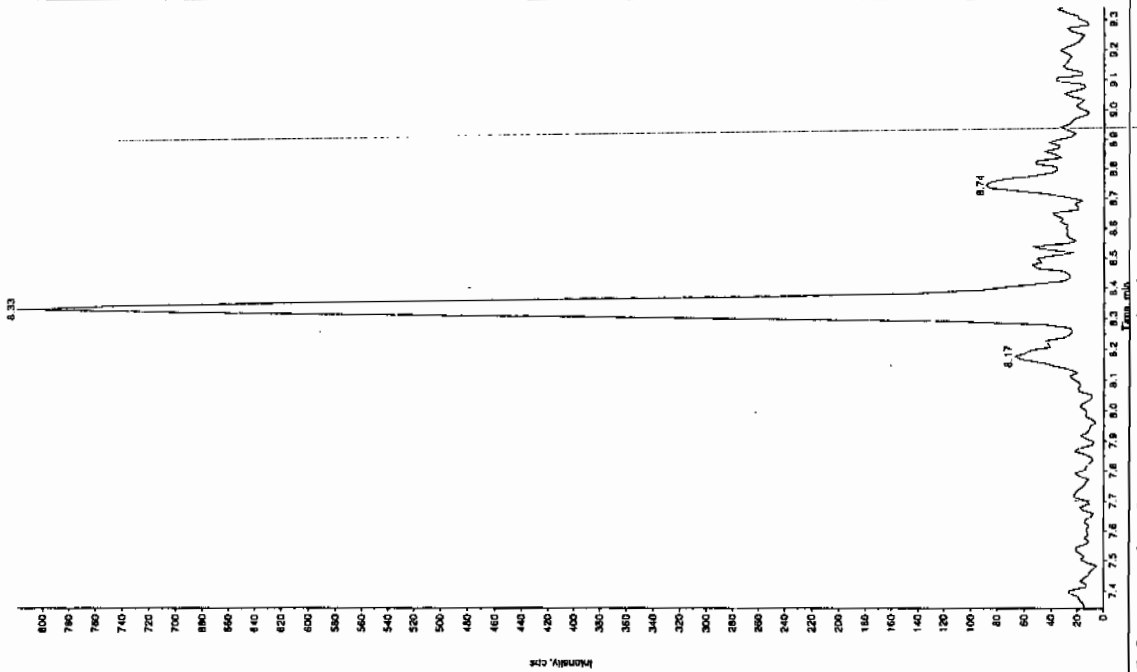


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK03" Sample ID: "1111ER" File: "EX503010012.wif"
 Peak Name: "28-Dinitro-4-nitrotoluene" Mass(es): "165.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 11:56:08 AM
 Modified: NO



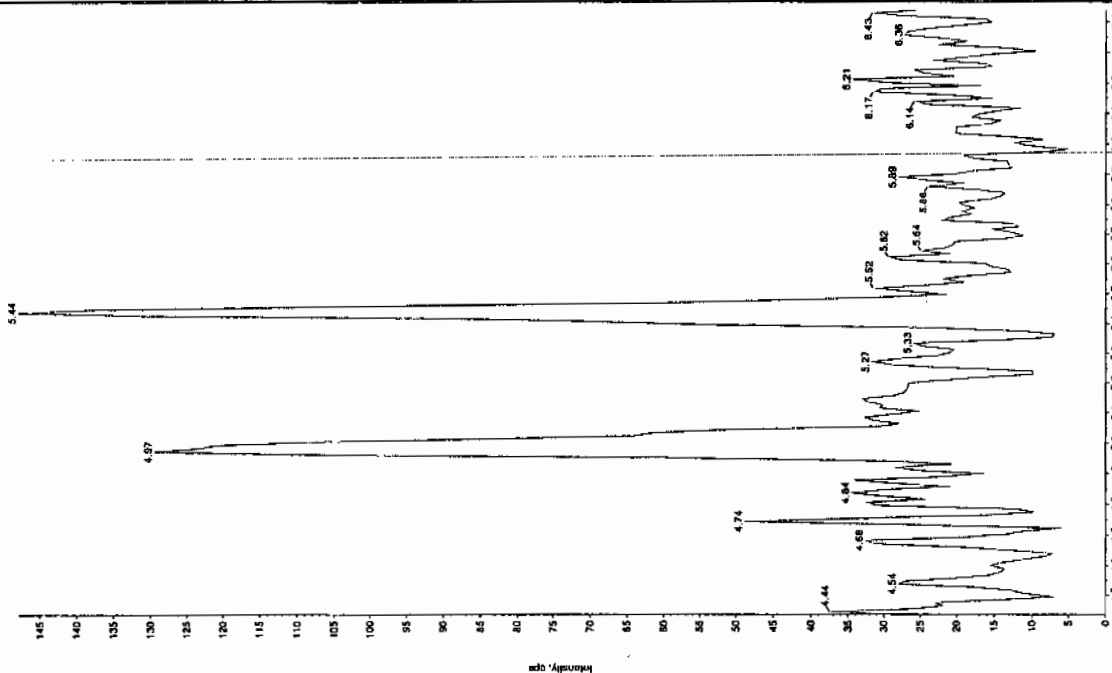
Sample Name: "XIBLK03" Sample ID: "1111ER" File: "EX503010012.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/11/2010
 Acq. Time: 11:56:08 AM
 Modified: NO



Sample Name: "XIBLK03" Sample ID: "11LER" File: "EX03010012.wit"
 Peak Name: "tris(2-creyl) phosphate" Mass(es): "389.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/1/2010
 Acq. Date: 11:56:08 AM
 Acq. Time: 11:56:08 AM
 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: 9.72e+000 min
 Area: 27253.160 counts
 Height: 10.7 cps
 Start Time: 11.0 min
 End Time: 11.0 min

Intensity, cps
 2.6e4
 2.7e4
 2.7e4
 2.6e4
 2.5e4
 2.5e4
 2.4e4
 2.4e4
 2.3e4
 2.3e4
 2.2e4
 2.2e4
 2.1e4
 2.1e4
 2.0e4
 2.0e4
 1.9e4
 1.9e4
 1.8e4
 1.8e4
 1.7e4
 1.7e4
 1.6e4
 1.6e4
 1.5e4
 1.5e4
 1.4e4
 1.4e4
 1.3e4
 1.3e4
 1.2e4
 1.2e4
 1.1e4
 1.1e4
 1.0e4
 1.0e4
 8000.0
 8000.0
 8000.0
 7500.0
 7000.0
 6500.0
 6000.0
 5500.0
 5000.0
 4500.0
 4000.0
 3500.0
 3000.0
 2500.0
 2000.0
 1500.0
 1000.0
 500.0
 0.0



Sample Name: "XIBLK03" Sample ID: "11LER" File: "EX03010012.wit"
 Peak Name: "24-Diamino-6-nitrofluorene" 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: 3/1/2010
 Acq. Time: 11:56:08 AM
 Modified: No

Intensity, cps
 145
 140
 135
 130
 125
 120
 115
 110
 105
 100
 95
 90
 85
 80
 75
 70
 65
 60
 55
 50
 45
 40
 35
 30
 25
 20
 15
 10
 5
 0

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Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

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

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Sample Name: "VIBLX04" Sample ID: "VIBLX04" File: "EXS03010025.wif"
Peak Name: "VIBLX04" Mass(es): 182.046.0 amu
Concentration: 0.00 ng/mL
Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 3:20:41 PM
Modified: No

Intensity, cps

1000
900
800
700
600
500
400
300
200
100
0

Time, min

Sample Name: "VIBLX04" Sample ID: "VIBLX04" File: "EXS03010025.wif"
Peak Name: "VIBLX04" Mass(es): 182.046.0 amu
Concentration: 0.00 ng/mL
Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 3:20:41 PM
Modified: No

Intensity, cps

180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0

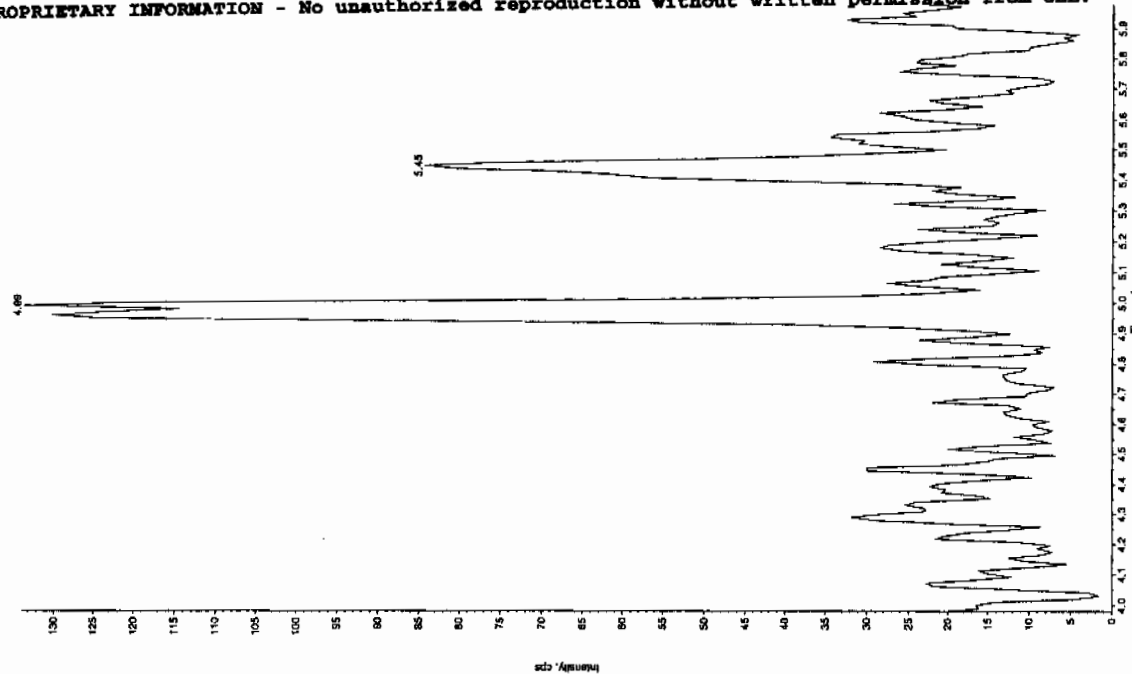
Time, min

Hum 03/04/10

*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

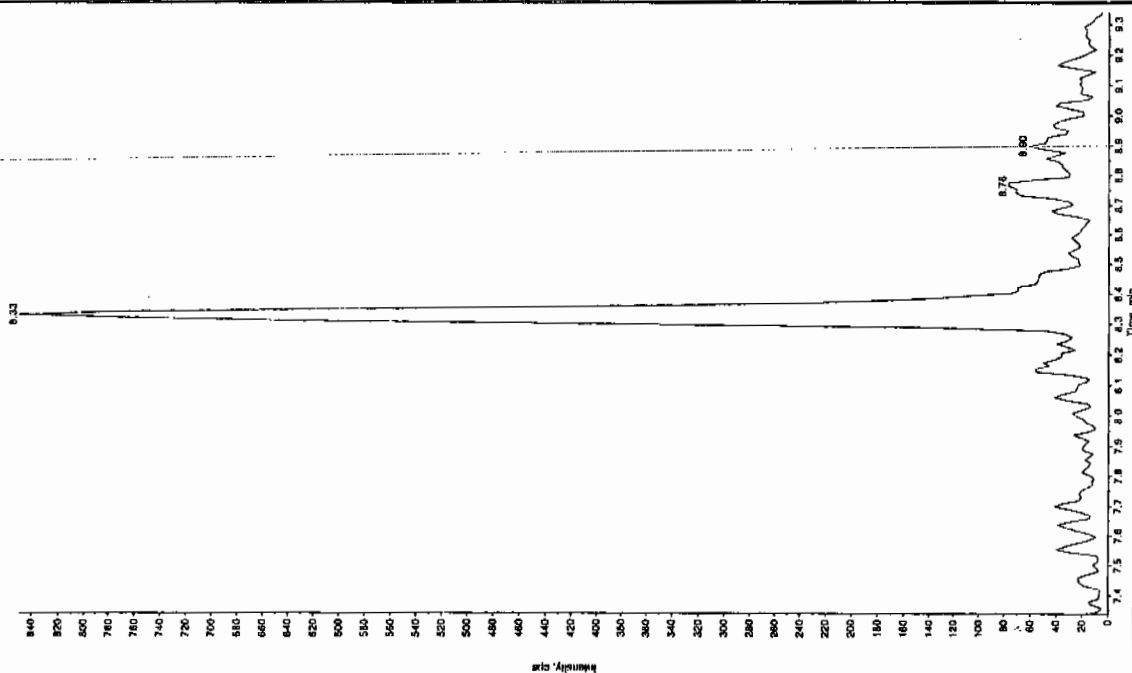
Sample Name: "XIBLX04" Sample ID: "1111ER" File: "EXS03010025.wif"
 Peak Name: "26-Diamino-4-nitrotokeine" Mass(es): "165.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 3:20:41 PM
 Modified: No

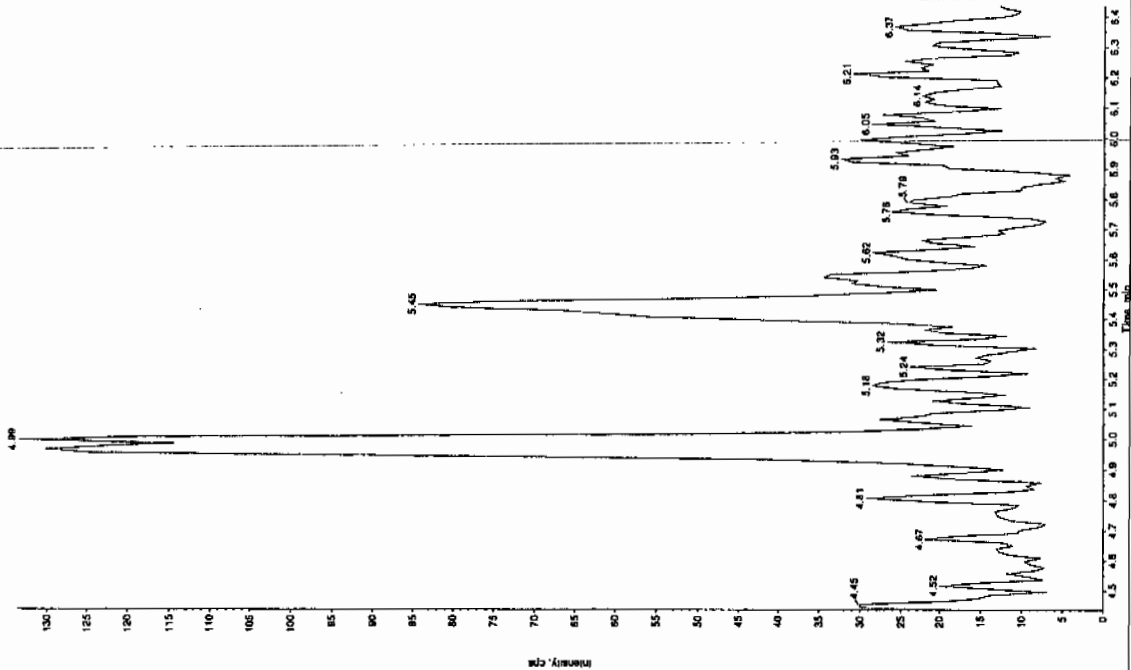


Sample Name: "XIBLX04" Sample ID: "1111ER" File: "EXS03010025.wif"
 Peak Name: "34-Dinitrotokeine" Mass(es): "162.171.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 3:20:41 PM
 Modified: No



Sample Name: "XIBLK04" Sample ID: "111ER" File: "EXSG010025.wif"
 Peak Name: "24-Diamino-5-nitroindole" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""
 Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 0.00
 Acq. Date: 3/1/2010
 Acq. Time: 3:20:41 PM
 Modified: No



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Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 01-MAR-10 16:55

GEL Data File: EXS03010031.wiff

Instrument ID: LCMSMS

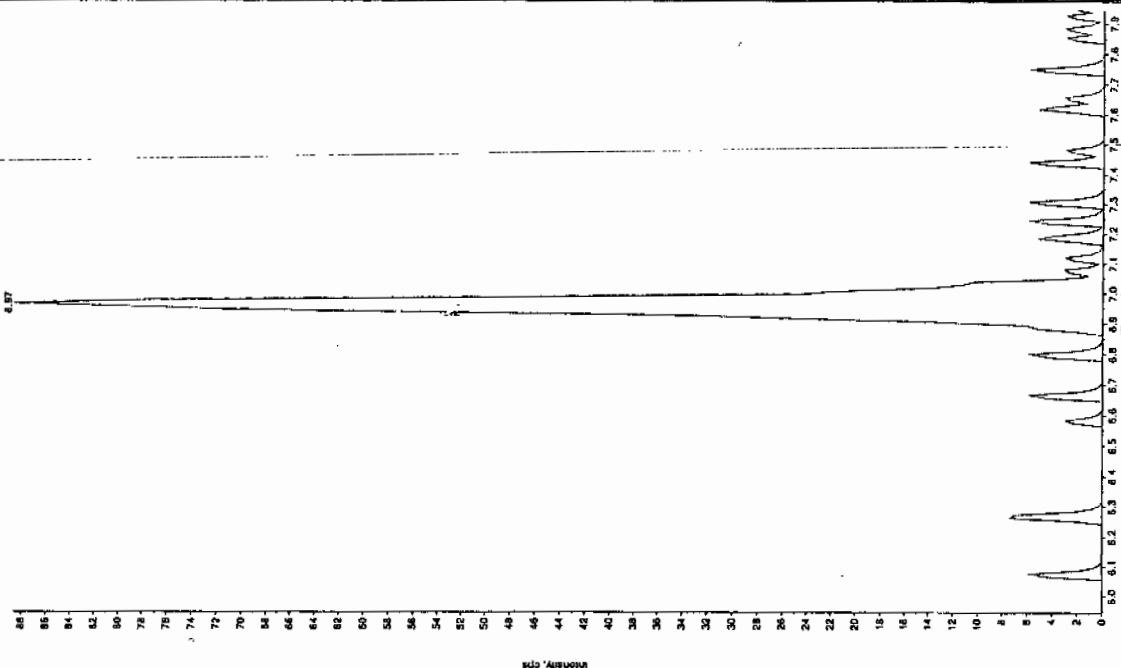
Column: Phenomenex Ultracarb 5u ODS(20)

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

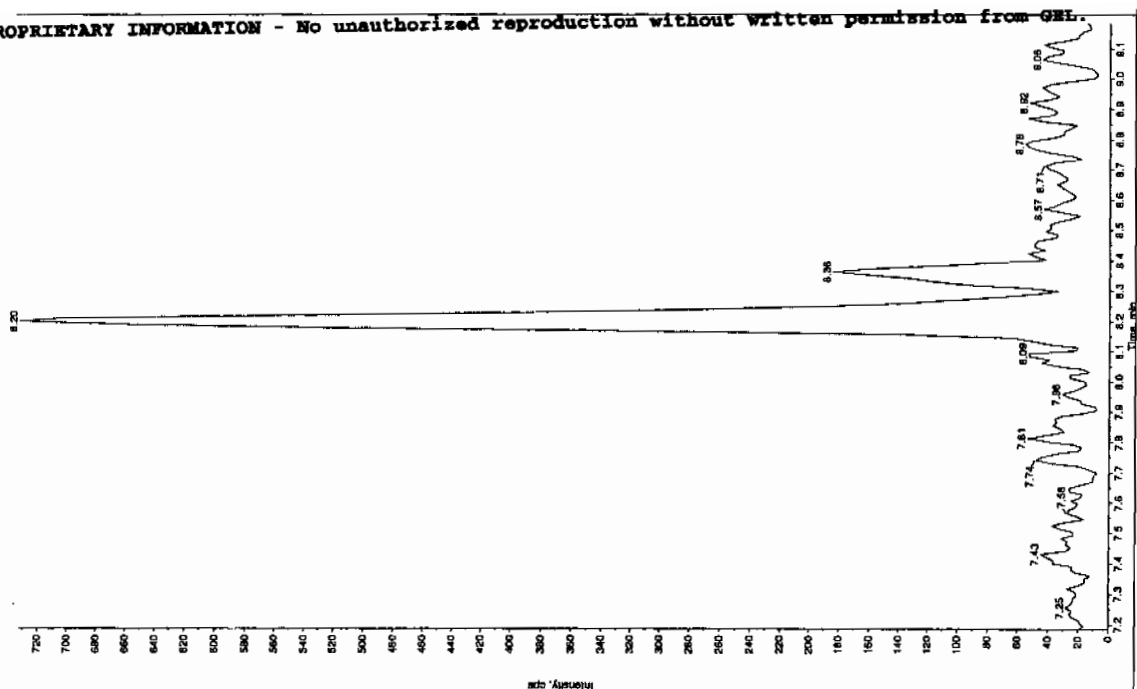
Sample Name: "XBL403" Sample ID: "HILER" File: "EX03010031.wif"
 Peak Name: "ATB" Mass(es): "257.2/204.3 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentrated: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 4:55:04 PM
 Modified: No



Sample Name: "XBL403" Sample ID: "HILER" File: "EX03010031.wif"
 Peak Name: "15.000" Mass(es): "182.0/60.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

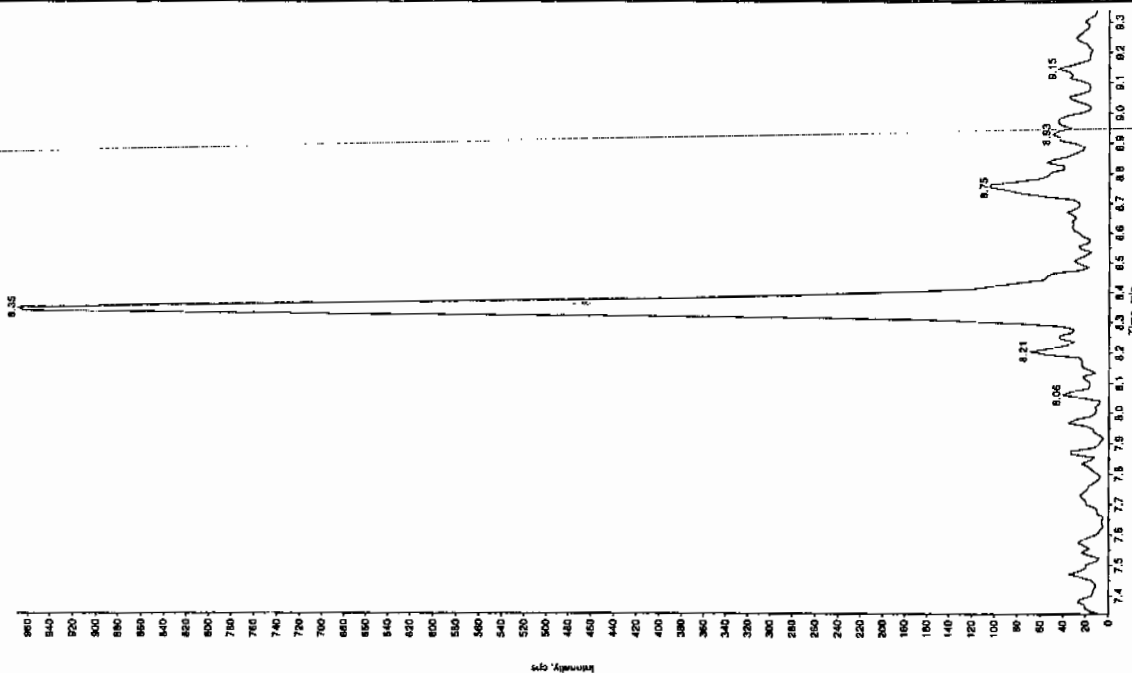
Sample Index: 1
 Sample Type: Unknown
 Concentrated: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 4:55:04 PM
 Modified: No



Jan 12/6/10

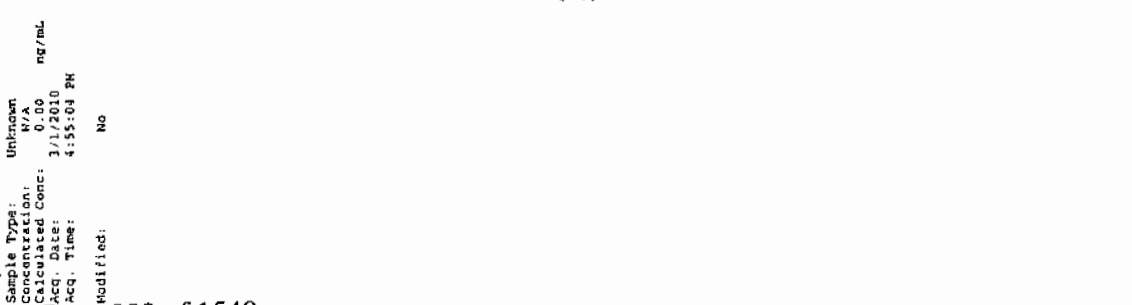
Sample Name: "XBLK05" Sample ID: "J1LER" File: "EX503010031.will"
 Peak Name: "25-Dinitro-4-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 4:55:04 PM
 Modified: No



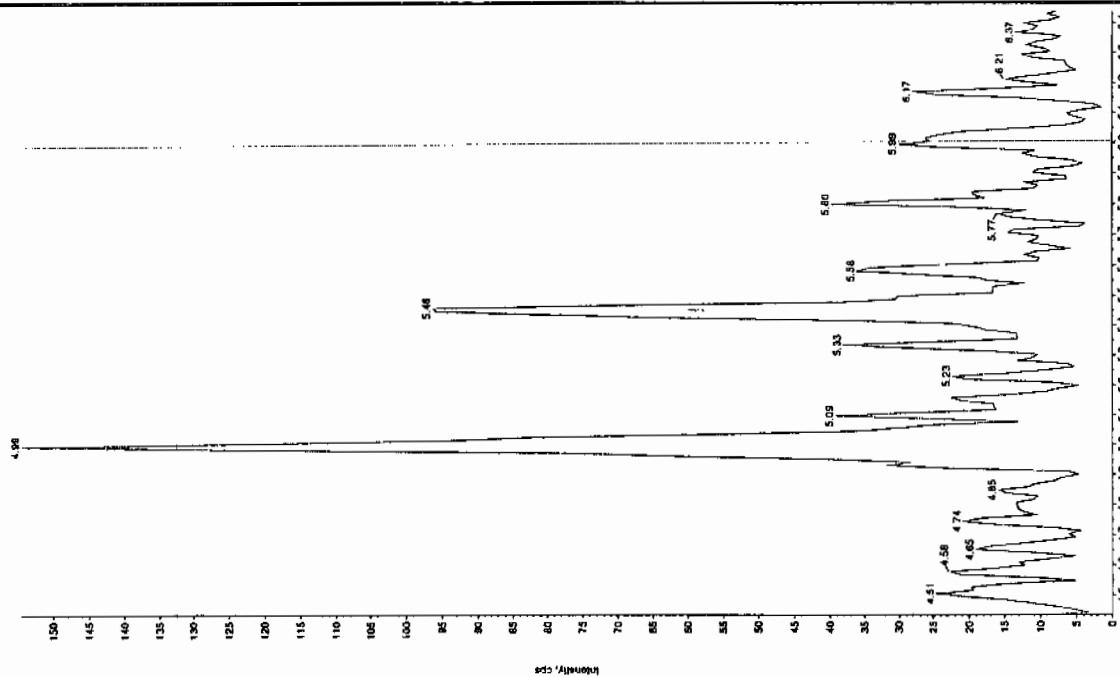
Sample Name: "XBLK05" Sample ID: "J1LER" File: "EX503010031.will"
 Peak Name: "3,4-Dinitrotoluene" Mass(es): "162.17151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 4:55:04 PM
 Modified: No



Sample Name: "XBLK05" Sample ID: "1111ER" File: "EXS02010031.wiff"
 Peak Name: "24-Duimoc-6-alkidiane" Mass(es): "166.04610 amu"
 Comment: "LCMSEXP_B" Annotation: "

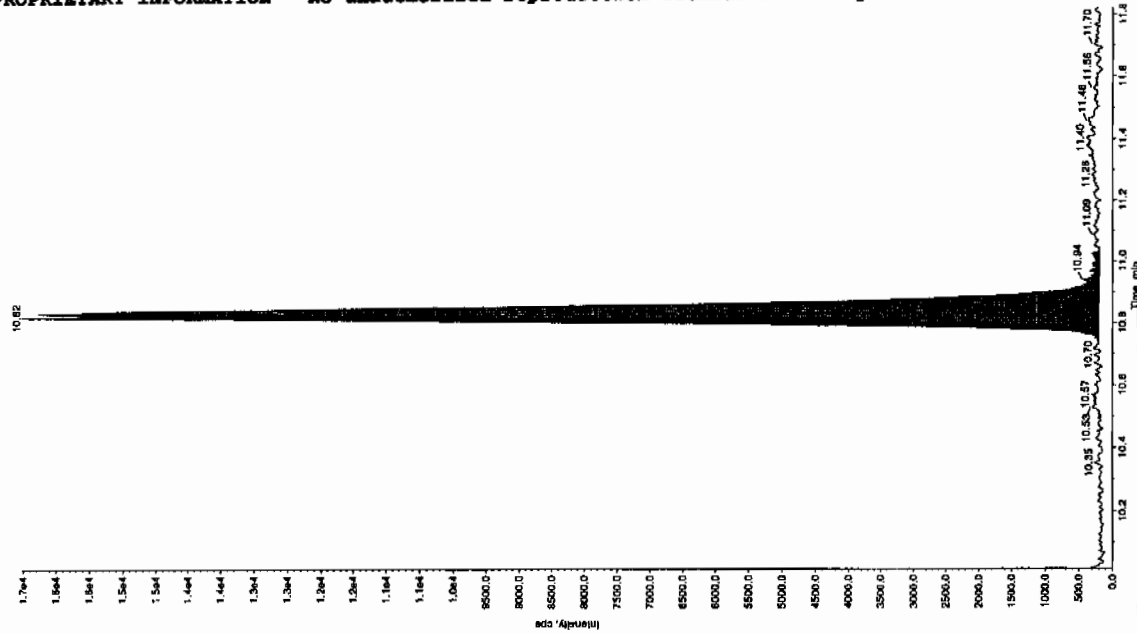
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/1/2010
 Acq. Date: 4:55:04 PM
 Acq. Time: 4:55:04 PM
 Modified: No



Sample Name: "XBLK05" Sample ID: "1111ER" File: "EXS02010031.wiff"
 Peak Name: "tris(ocressyl) phosphate" Mass(es): "369.19110 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: No Intercept
 Acq. Date: 3/1/2010
 Acq. Time: 4:55:04 PM
 Modified: No

Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 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: 10.8 min
 Area: 5.03e+004 counts
 Height: 16316.530 cps
 Start Time: 10.7 min
 End Time: 11.0 min



Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

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)

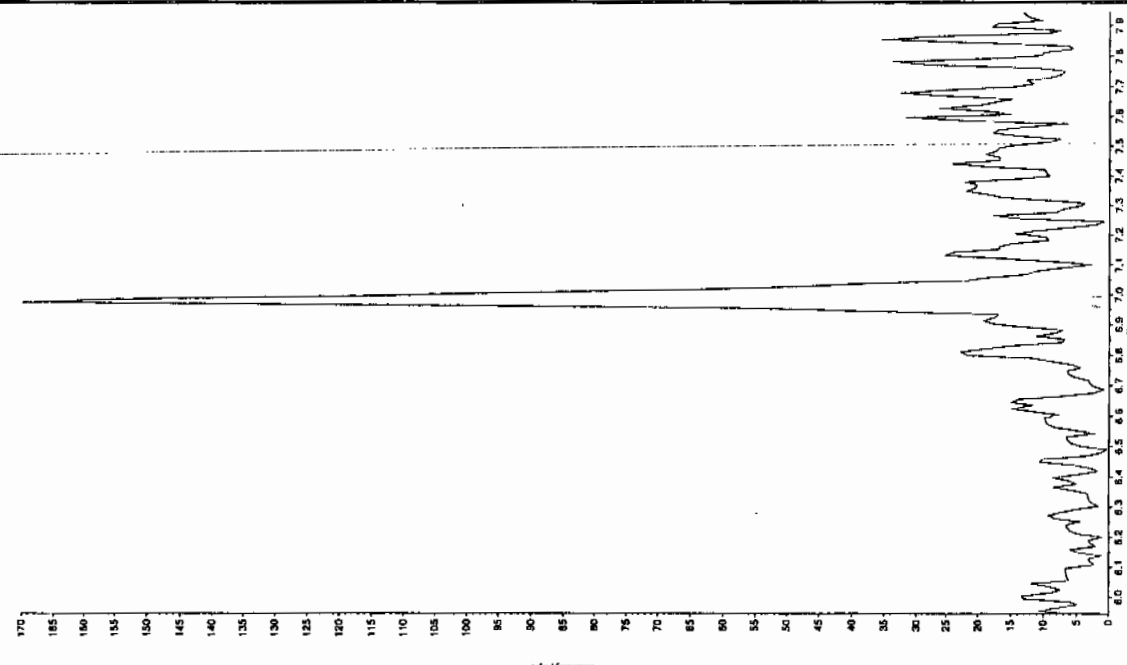
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 3/3/10

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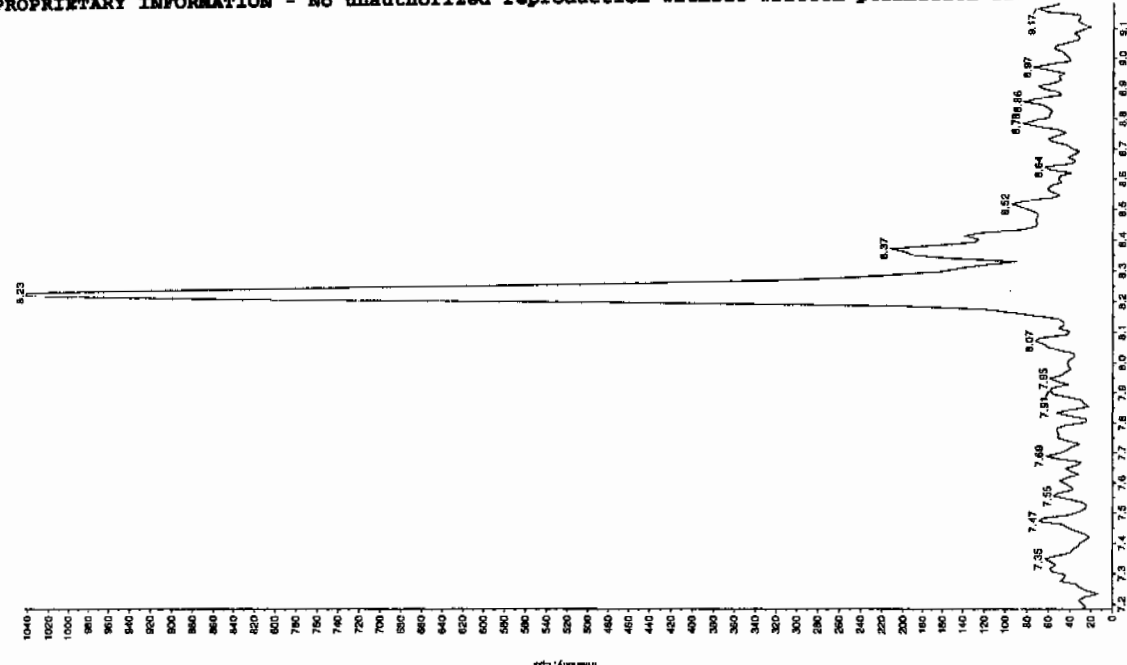
Sample Name: "XBLX06" Sample ID: "1111ER" File: "EXS03010038.wif"
Peak Name: "TATS" Mass(es): "257.2204.9 amu"
Comment: "LONSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 6:45:29 PM
Modified: No



Sample Name: "XBLX06" Sample ID: "1111ER" File: "EXS03010038.wif"
Peak Name: "35-Dinitrophenol" Mass(es): "182.0460 amu"
Comment: "LONSEXP_B" Annotation: ""

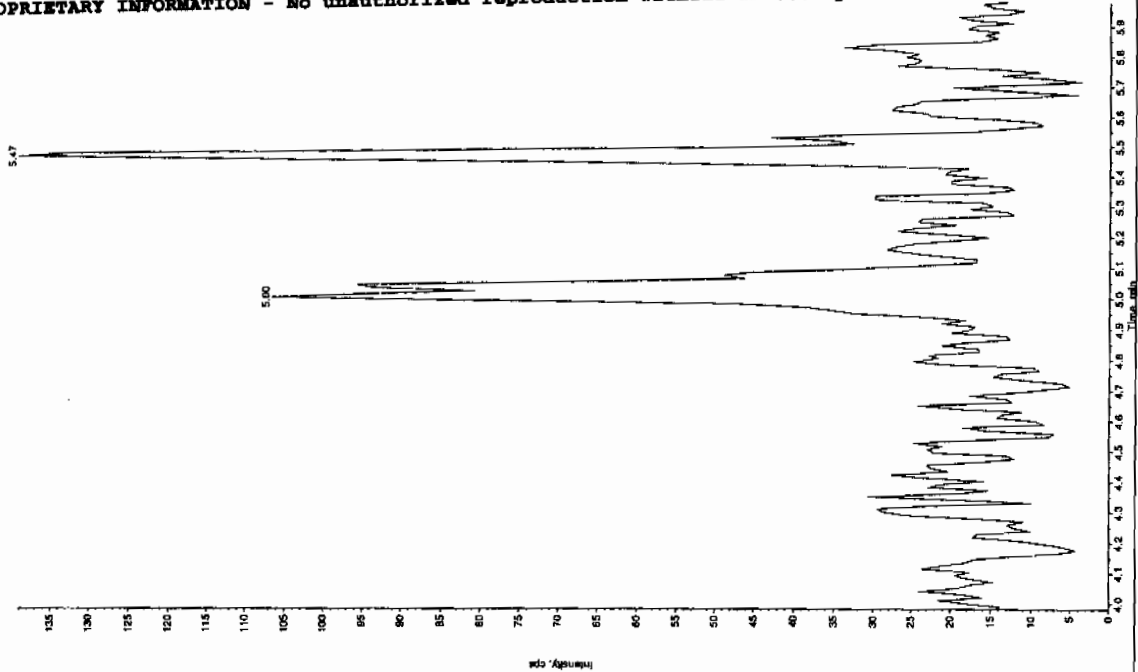
Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 6:45:29 PM
Modified: No



Jan 03/04/10

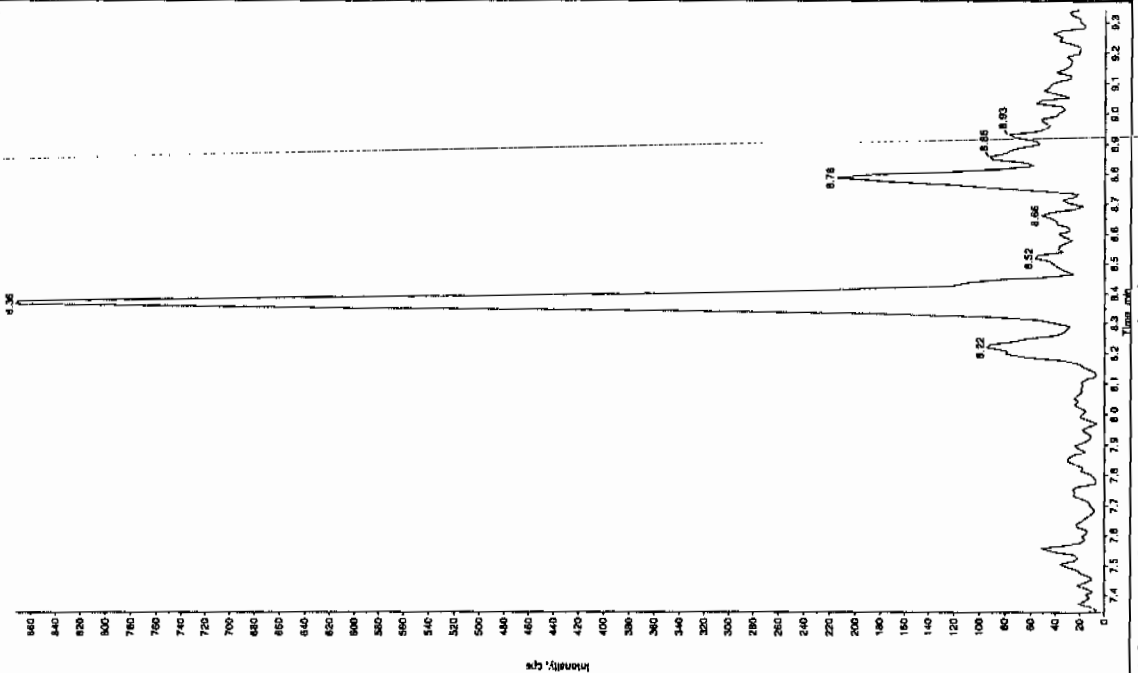
Sample Name: "XBLK06" Sample ID: "11LER" File: "EXS03010038.wif"
 Peak Name: "25-Diamino-4-nitrotoluene" Mass(es): "186.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 6:45:29 PM
 Modified: No



Sample Name: "XBLK06" Sample ID: "11LER" File: "EXS03010038.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1131.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

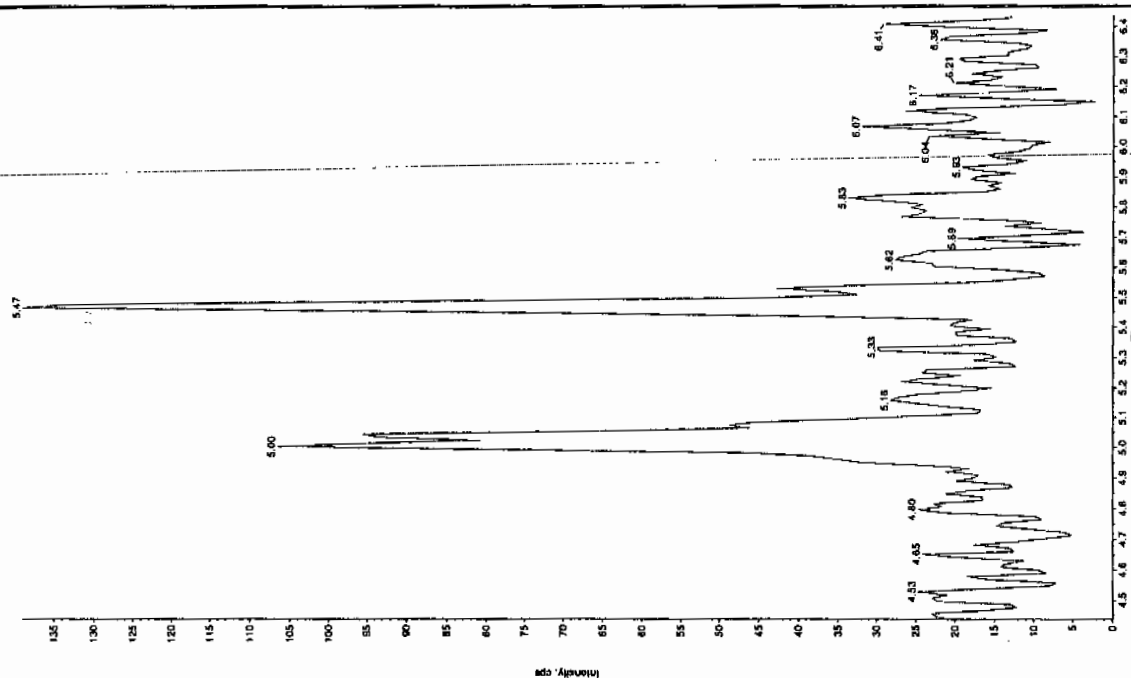
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 6:45:29 PM
 Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

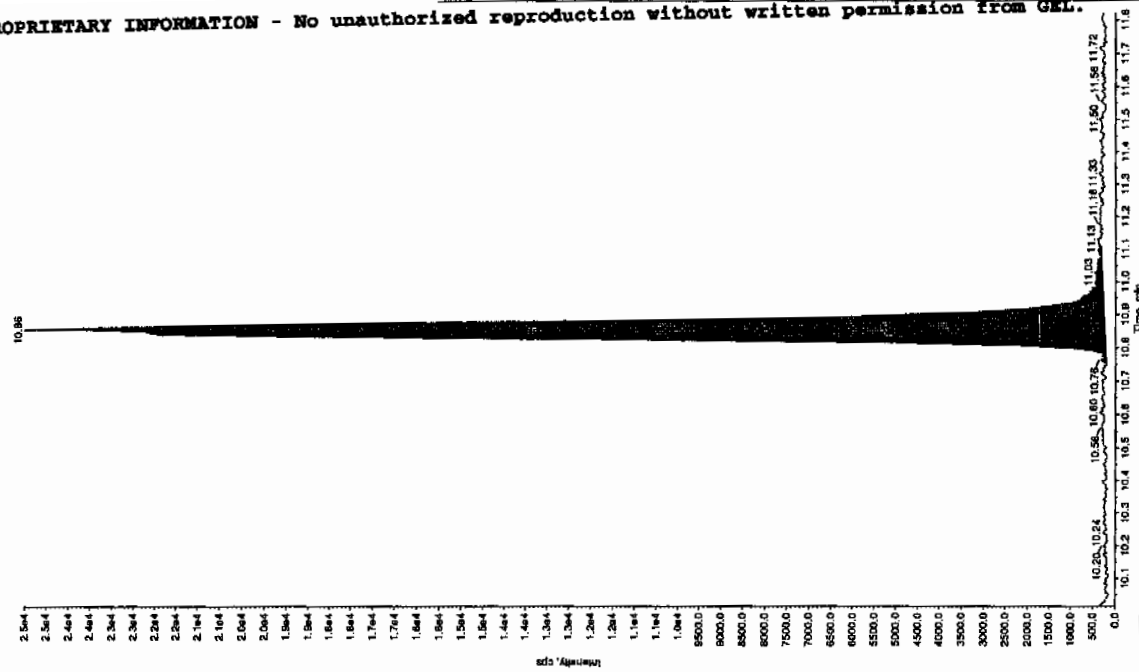
Sample Name: "YBLK06" Sample ID: "HILLER" File: "EVS0010038.wif"
 Peak Name: "24-Di-n-o-o-6-methyl-o-o-6" Mass(es): "155.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 6:45:29 PM
 Modified: No



Sample Name: "YBLK06" Sample ID: "HILLER" File: "EVS0010038.wif"
 Peak Name: "106-o-o-6-methyl-o-o-6" Mass(es): "359.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: < 0
 Acq. Date: 3/1/2010
 Acq. Time: 6:45:29 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: 9.30e+004 counts
 Height: 24775.198 cps
 Start Time: 10.7 min
 End Time: 11.2 min



Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 01-MAR-10 22:10

GEL Data File: EXS03010051.wiff

Instrument ID: LCMSMS

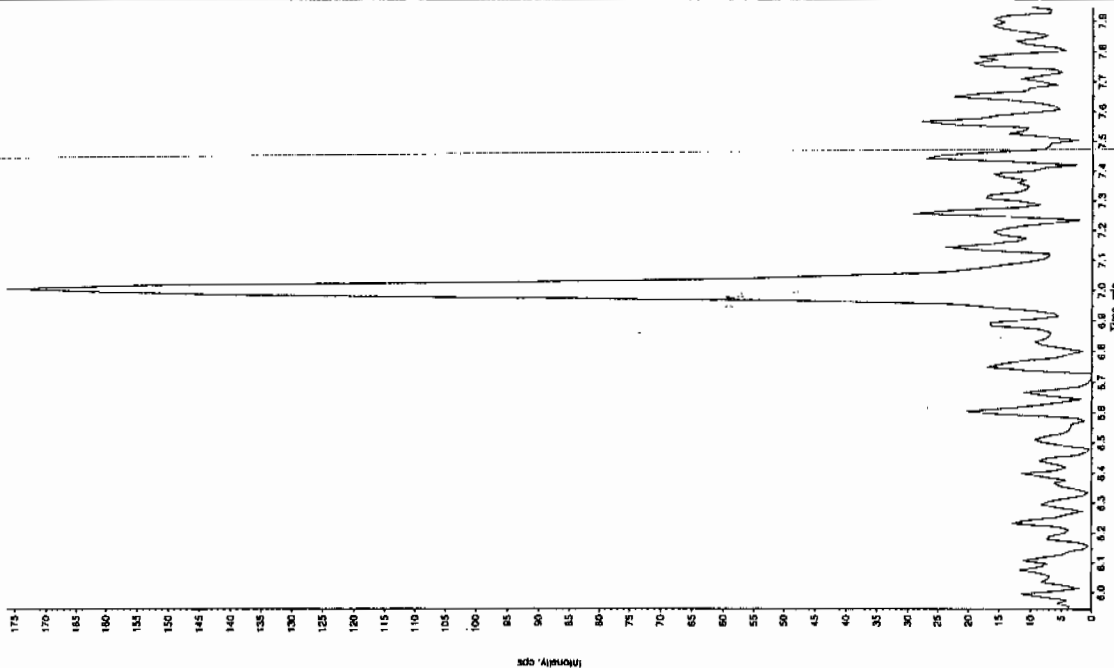
Column: Phenomenex Ultracarb 5u ODS(20)

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

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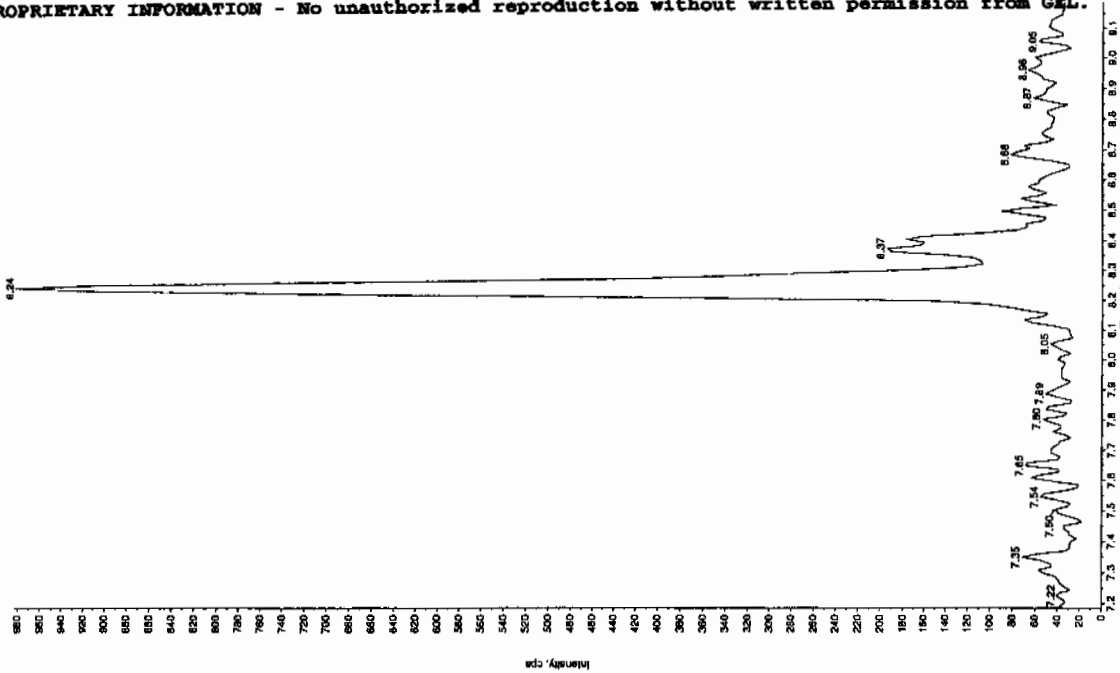
Sample Name: "YBL07" Sample ID: "JILLER" File: "EX503010051.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 10:10:00 PM
 Modified: No

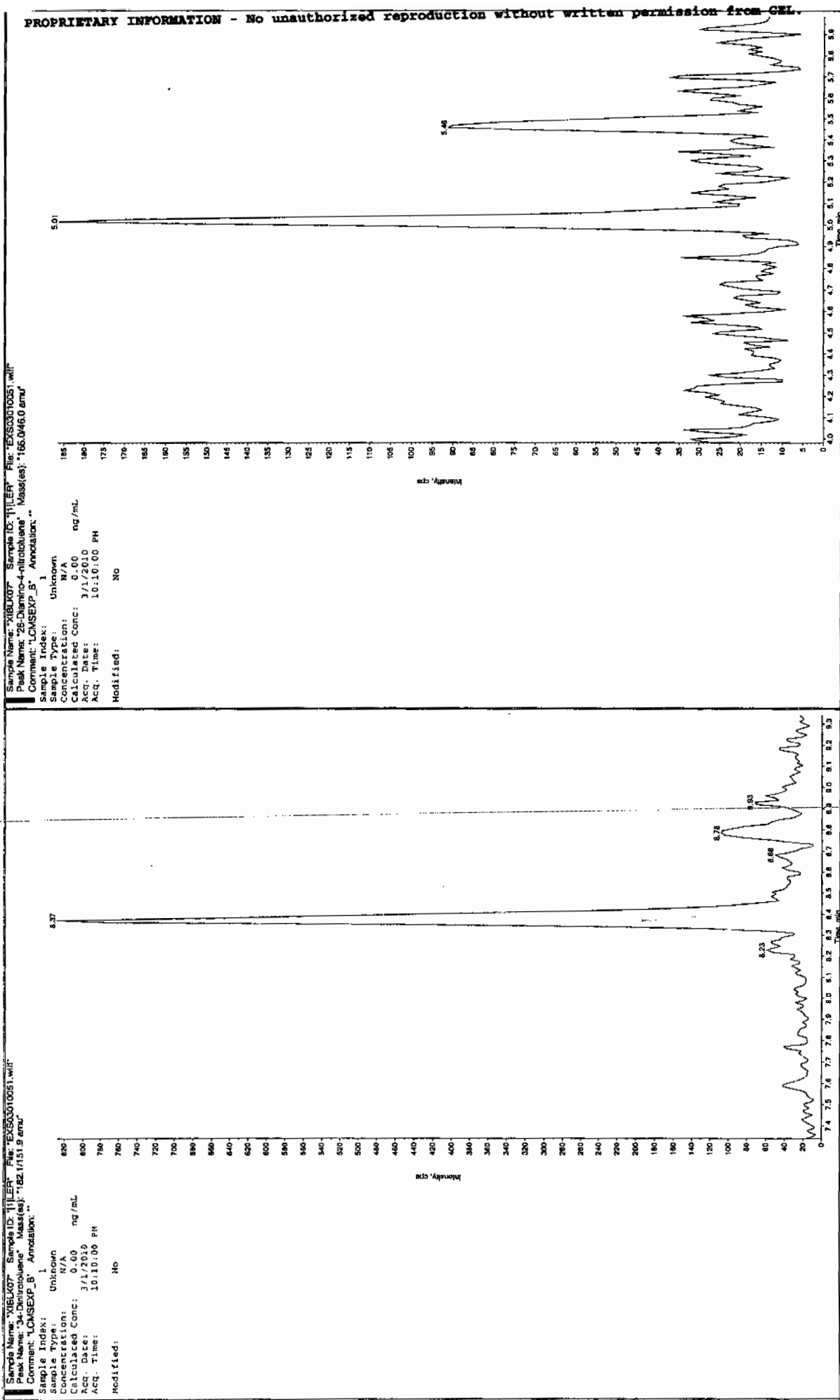


Sample Name: "YBL07" Sample ID: "JILLER" File: "EX503010051.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 10:10:00 PM
 Modified: No

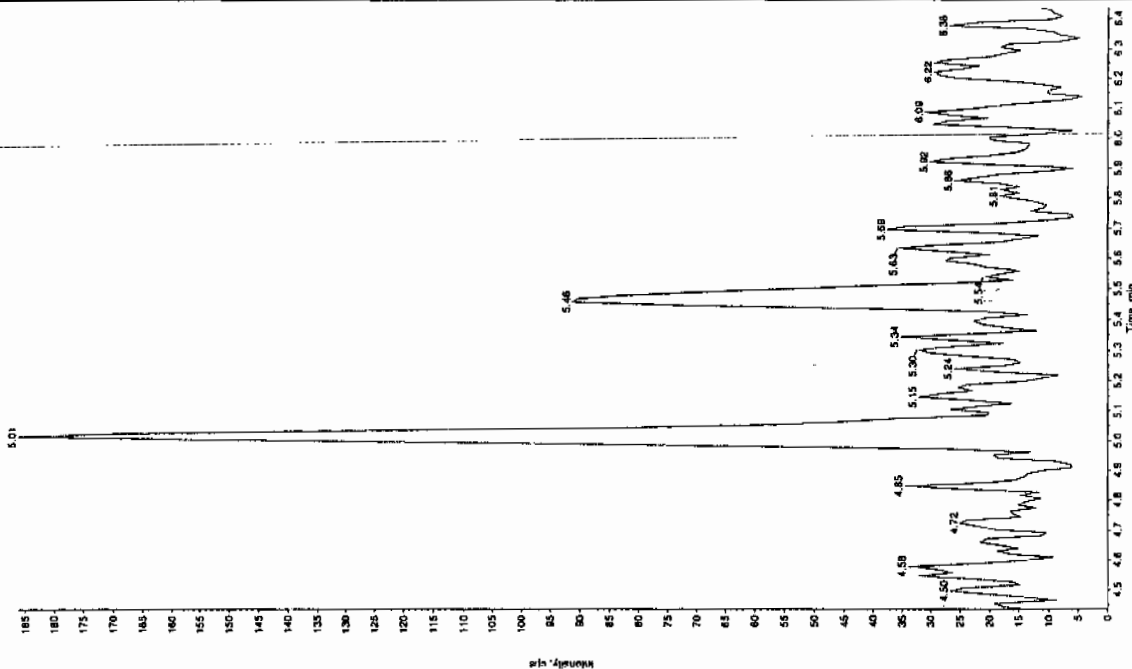


Jun 03/04/10



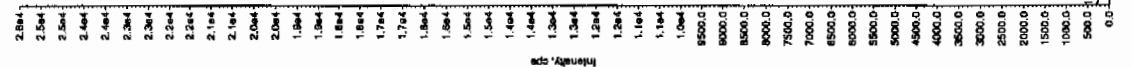
Sample Name: "XIBLK07" Sample ID: "111ER" File: "EXS03010051.wif"
 Peak Name: "24-Diethyl-6-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/17/2010
 Acq. Time: 10:10:00 PM
 Modified: No



Sample Name: "XIBLK07" Sample ID: "111ER" File: "EXS03010051.wif"
 Peak Name: "tri(o-cresyl) phosphite" Mass(es): "359.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: No Intercept
 Acq. Date: 3/17/2010
 Acq. Time: 10:10:00 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: 9.08e+004 counts
 Height: 25272.495 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 02-MAR-10 01:34

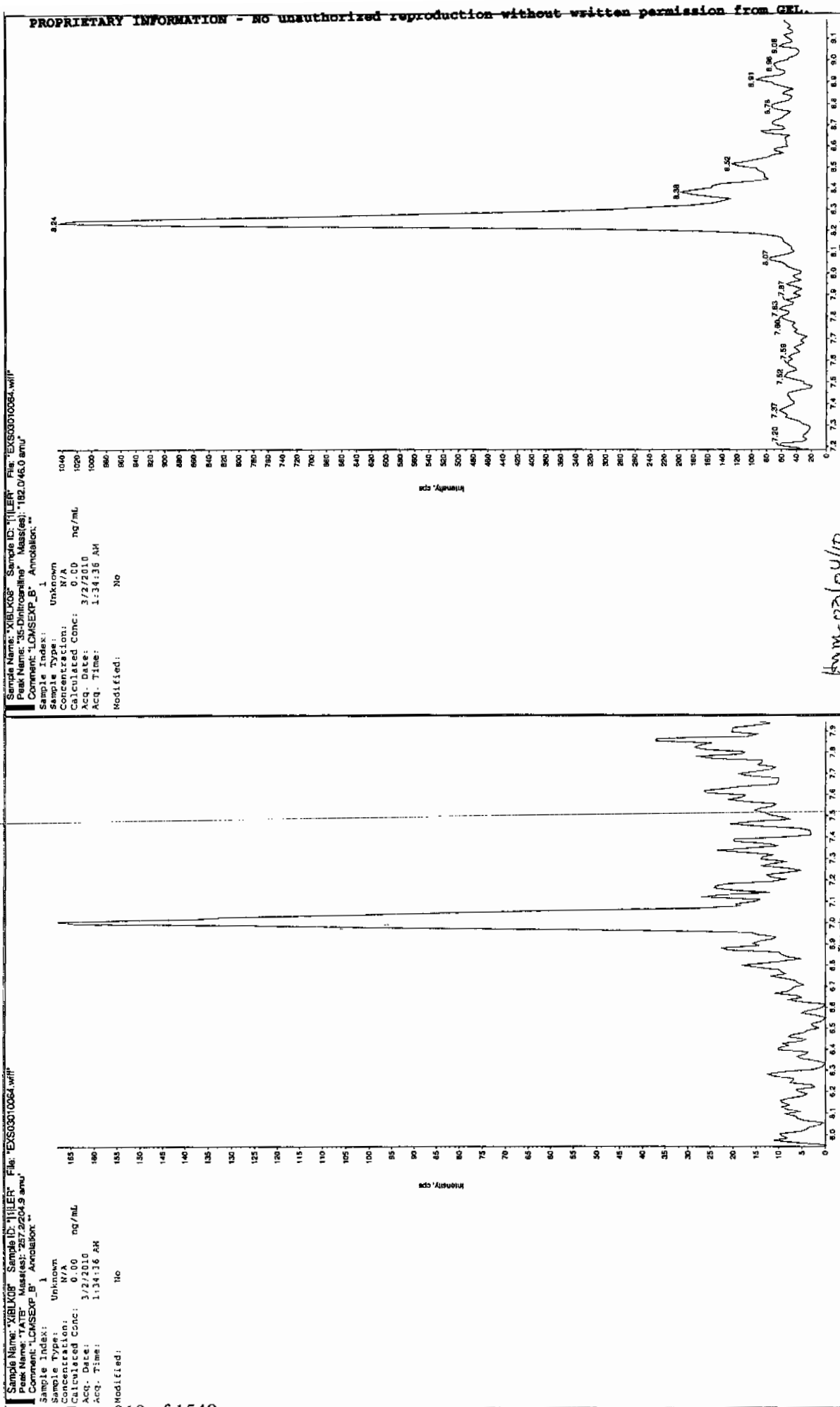
GEL Data File: EXS03010064.wiff

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

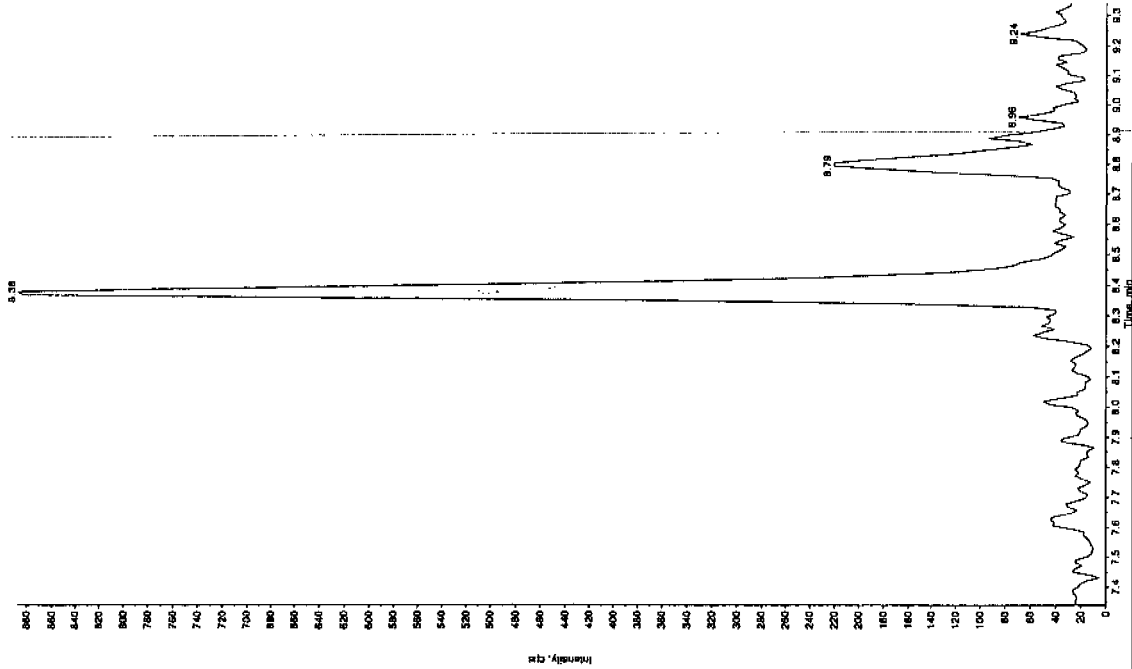
Run 313110



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK08" Sample ID: "111ER" File: "EXS03010064.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: 0.00 ng/mL
 Calculated Conc: 0.00
 Acq. Date: 3/2/2010
 Acq. Time: 1:34:16 AM
 Modified: NO



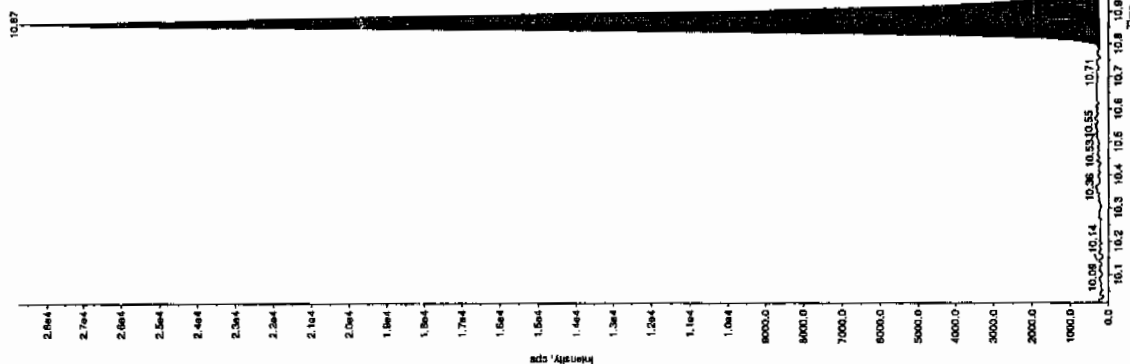
Sample Name: "XIBLK08" Sample ID: "111ER" File: "EXS03010064.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/181.9 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 0.00
 Acq. Date: 3/2/2010
 Acq. Time: 1:34:16 AM
 Modified: NO



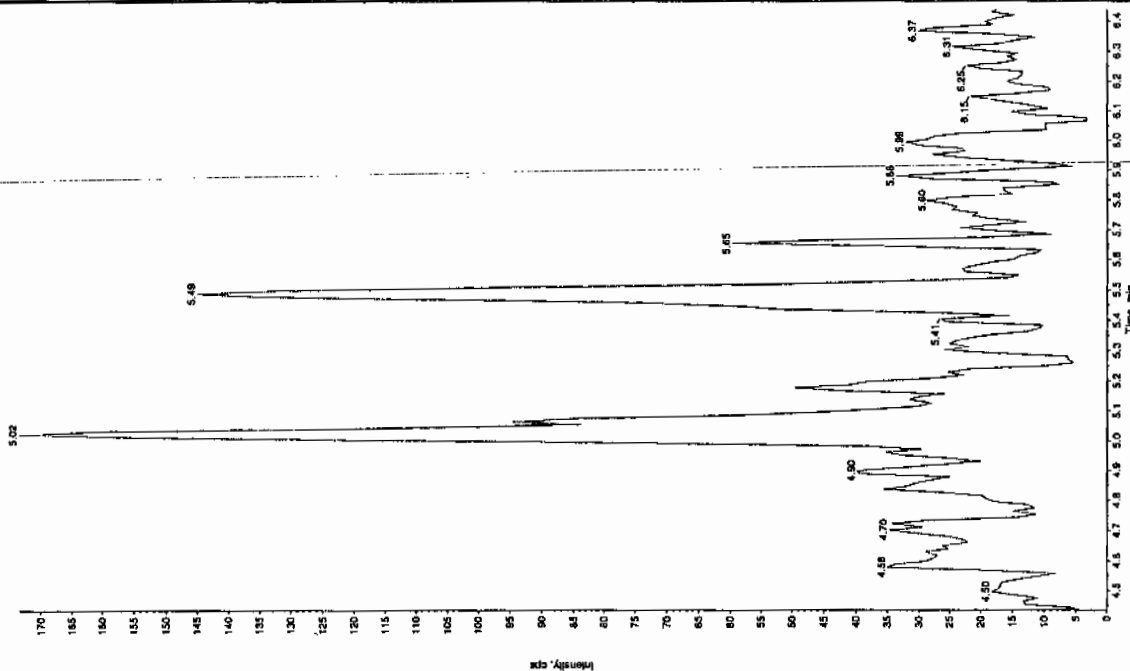
Sample Name: 'XIBUKOP' Sample ID: '111ER' File: 'EXS03010054.wif'
 Peak Name: '1,1,1-tris(4-phenyl) phosphine' Mass(es): '359.191.0 amu'
 Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: < 0
 Acq. Date: 3/2/2010
 Acq. Time: 1:34:36 AM
 Modified: No
 Proc. Algorithm: InceiliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 30.0 points
 Ret. Mode: Peak
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.00e+005 counts
 Height: 28505.838 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: 'XIBUKOP' Sample ID: '111ER' File: 'EXS03010054.wif'
 Peak Name: '2,4-Diamino-6-nitrophenol' 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: 1:34:36 AM
 Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCM\$MS#4

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 02-MAR-10 04:27

GEL Data File: EXS03010075.wiff

Instrument ID: LCMSMS

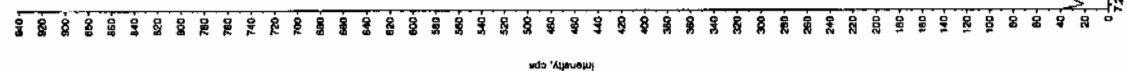
Column: Phenomenex Ultracarb 5u ODS(20)

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

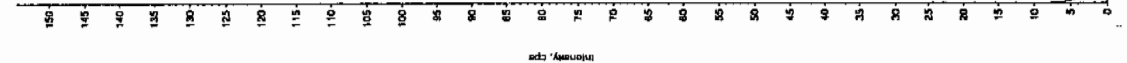
PROPRIETARY INFORMATION No unauthorized reproduction without written permission from QEL

Sample Name: XELK09 Sample ID: T1LER File: EXS03010075.wif
Peak Name: 182.046.0 amu
Concentration: 0.00 ng/mL
Sample Index: 1
Sample Type: Unknown
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/2/2010
Acq. Time: 4:27:45 AM
Modified: No



Amw03104/10

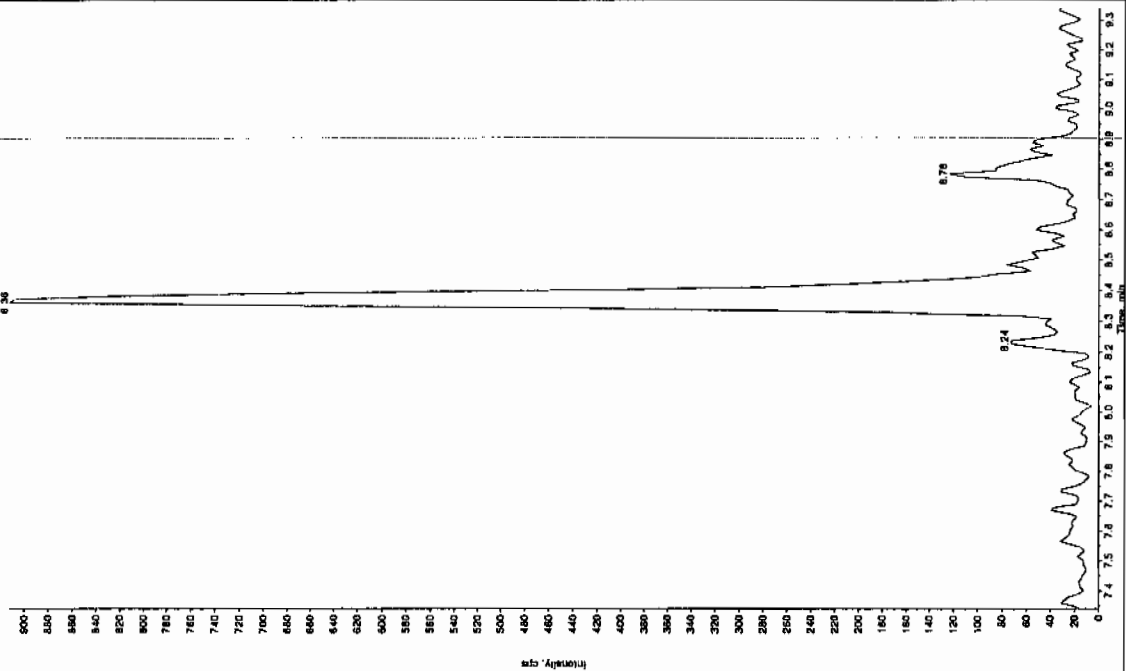
Sample Name: XELK09 Sample ID: T1LER File: EXS03010075.wif
Peak Name: 182.046.0 amu
Concentration: 0.00 ng/mL
Sample Index: 1
Sample Type: Unknown
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/2/2010
Acq. Time: 4:27:45 AM
Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

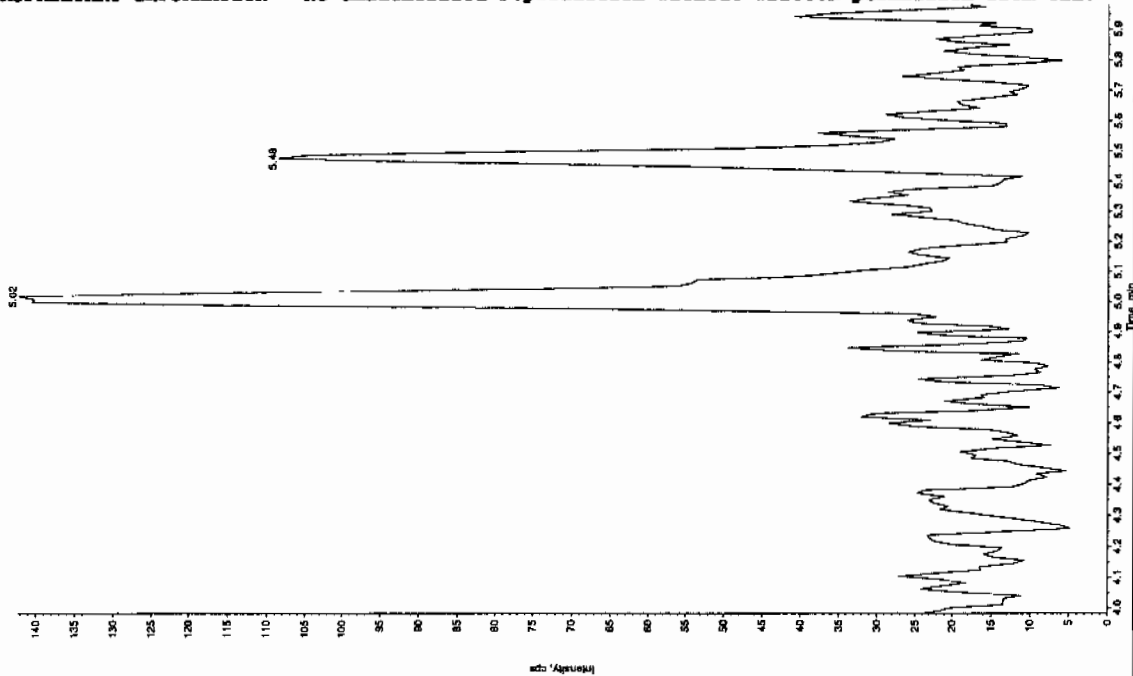
Sample Name: "XBLK09" Sample ID: "T1LER" File: "EXS03010075.wif"
Peak Name: "34-Dinitrofluorene" Mass(es): "162.17151.9 amu"
Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
Sample Type: Unknown
Concentration: 0.76 ng/mL
Calculated Conc: 3.72/2010
Acq. Date: 3/2/2010
Acq. Time: 4:27:45 AM
Modified: No



Sample Name: "XBLK09" Sample ID: "T1LER" File: "EXS03010075.wif"
Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "166.0446.0 amu"
Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 3.100 ng/mL
Acq. Date: 3/2/2010
Acq. Time: 4:27:45 AM
Modified: No



Sample Name: "XIBLX09" Sample ID: "11LER" File: "EXS03010075.wif"
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "196.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: No Intercept
 Acq. Date: 3/2/2010
 Acq. Time: 4:27:45 AM
 Modified: No

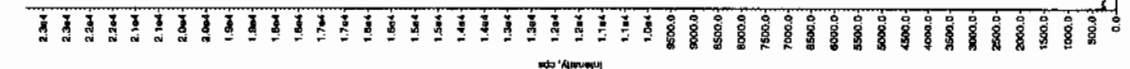
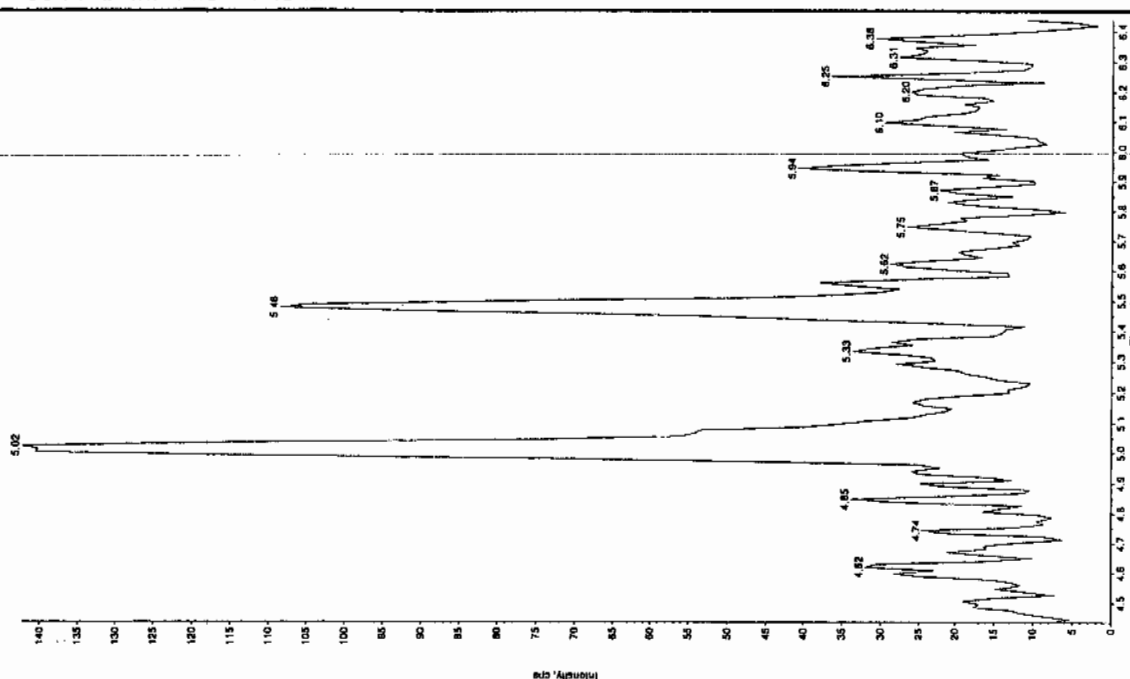
Proc. Algorithm: IntelliQuan - TOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 10.9 min
 Area: 8.82e+004 counts
 Height: 21102.528 cps
 Start Time: 10.8 min
 End Time: 11.1 min

Sample Name: "XIBLX09" Sample ID: "11LER" File: "EXS03010075.wif"
 Peak Name: "tris(o-cresyl) phosphite" Mass(es): "359.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: No Intercept
 Acq. Date: 3/2/2010
 Acq. Time: 4:27:45 AM
 Modified: No

Proc. Algorithm: IntelliQuan - TOA
 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: 8.82e+004 counts
 Height: 21102.528 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

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

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Sample Name: "XIBUK10" Sample ID: "11LER" File: "EXS0010088.wif"

Peak Name: "TA19" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

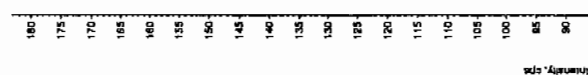
Concentration: 0.00 ng/mL

Calculated Conc: 3/2/2010

Acq. Date: 7:52:21 AM

Acq. Time: 7:52:21 AM

Modified: No



Sample Name: "XIBUK10" Sample ID: "11LER" File: "EXS0010088.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

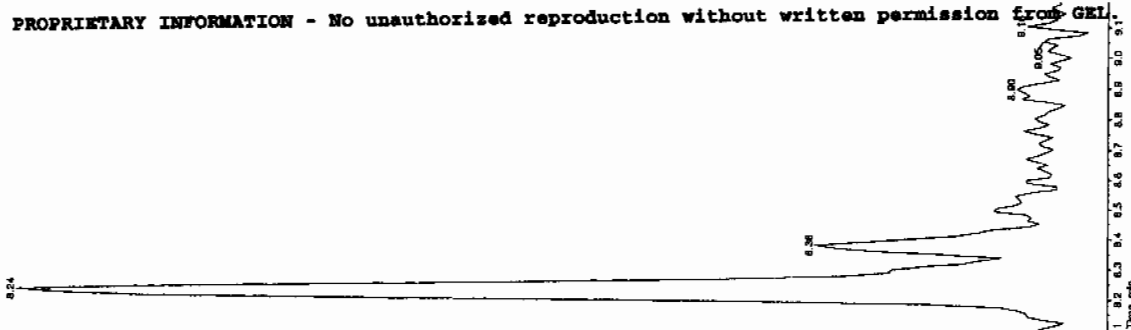
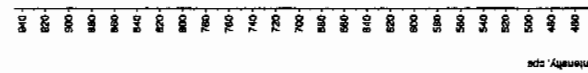
Concentration: 0.00 ng/mL

Calculated Conc: 3/2/2010

Acq. Date: 7:52:21 AM

Acq. Time: 7:52:21 AM

Modified: No

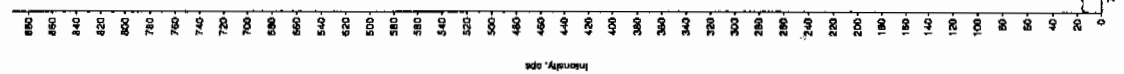


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*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

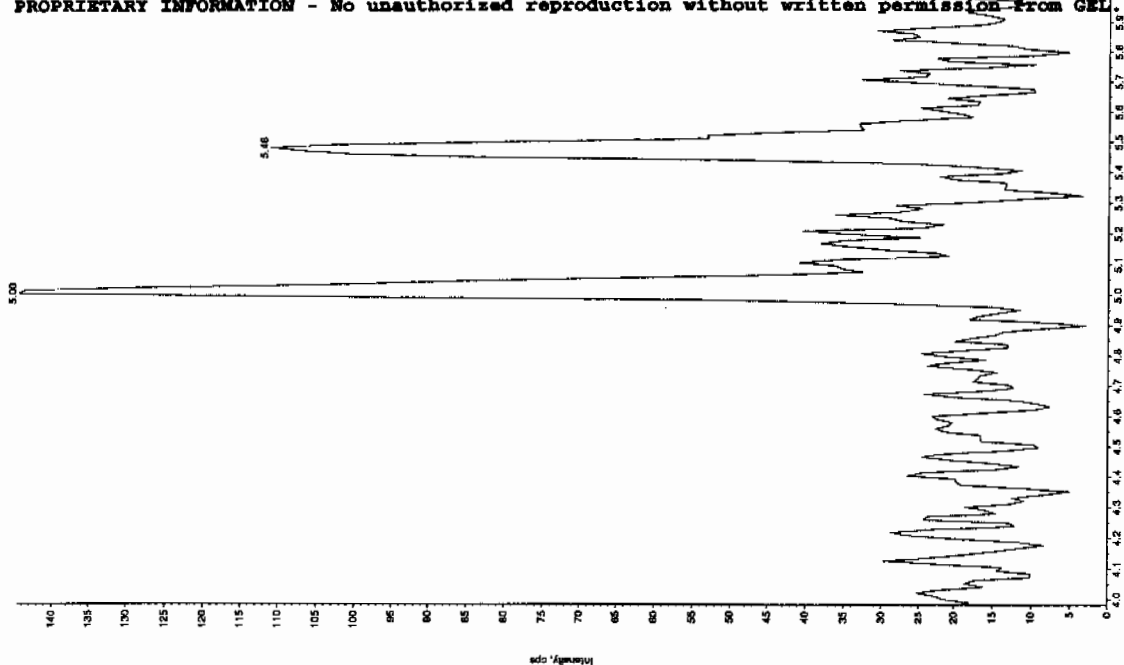
Sample Name: "XBLK10" Sample ID: "111ER" File: "EX503010088.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1715.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/3/2010
 Acq. Time: 7:52:21 AM
 Modified: No



Sample Name: "XBLK10" Sample ID: "111ER" File: "EX503010088.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "166.0465.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

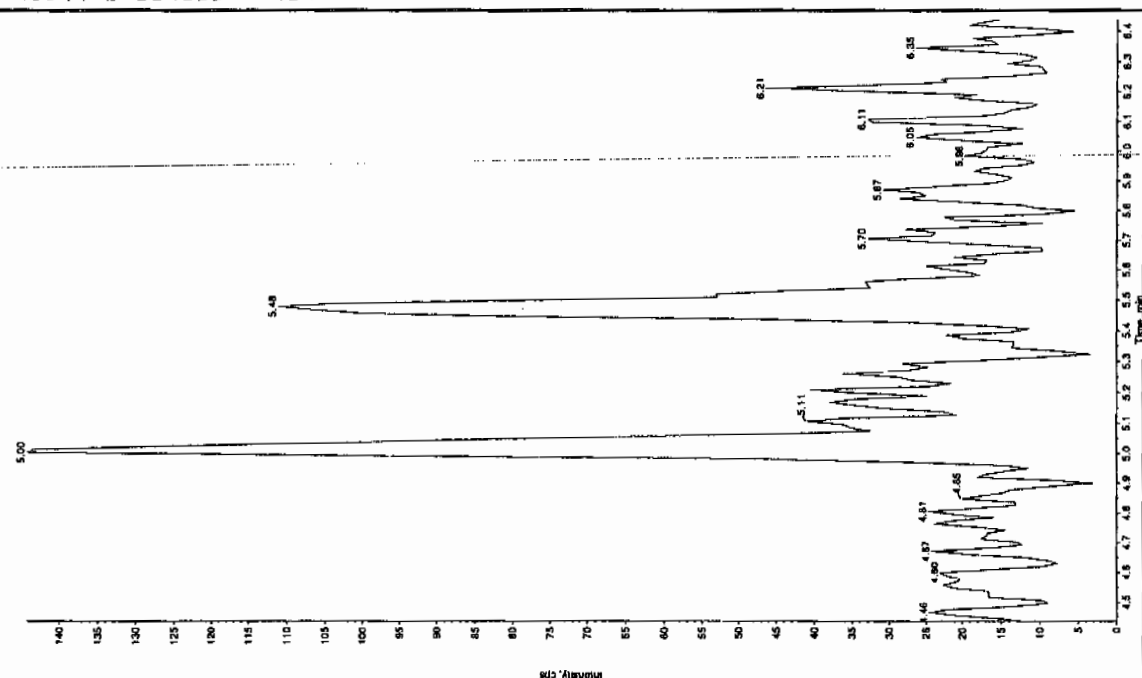
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/3/2010
 Acq. Time: 7:52:21 AM
 Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

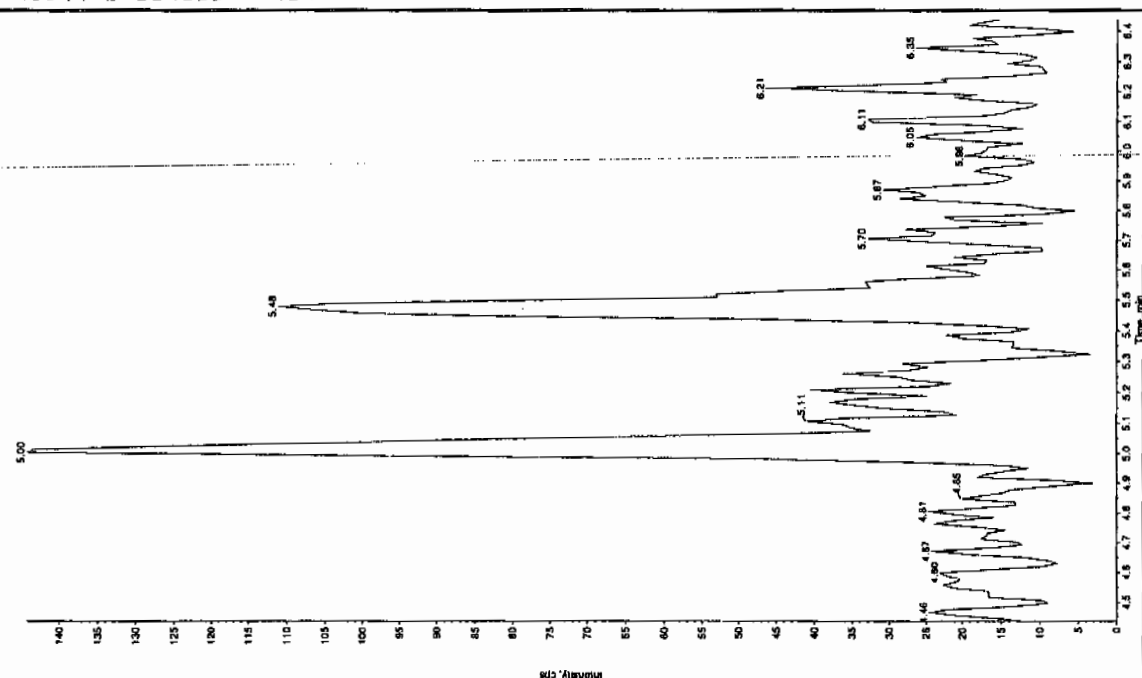
Sample Name: "XIBLK10" Sample ID: "JILLER" File: "EX650010088.wif"
 Peak Name: "24-Dinitro-5-nitrofluorene" Mass(es): "156.0453 amu"
 Comment: "LCMSEXP_B" Annotation: "Aviation"

Sample Index: 1
 Sample Type: Unknown
 Concentrated Conc: 0.00 ng/mL
 Calculated Conc: No Intercept
 Acq. Date: 3/2/2010
 Acq. Time: 7:52:21 AM
 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: 5.01e+004 counts
 Height: 24962.246 cps
 Start Time: 10.6 min
 End Time: 11.1 min



Sample Name: "XIBLK10" Sample ID: "JILLER" File: "EX650010088.wif"
 Peak Name: "24-Dinitro-5-nitrofluorene" Mass(es): "156.0453 amu"
 Comment: "LCMSEXP_B" Annotation: "Aviation"

Sample Index: 1
 Sample Type: Unknown
 Concentrated Conc: 0.00 ng/mL
 Calculated Conc: No Intercept
 Acq. Date: 3/2/2010
 Acq. Time: 7:52:21 AM
 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: 5.01e+004 counts
 Height: 24962.246 cps
 Start Time: 10.6 min
 End Time: 11.1 min



Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 02-MAR-10 11:17

GEL Data File: EXS03010101.wiff

Instrument ID: LCMSMS

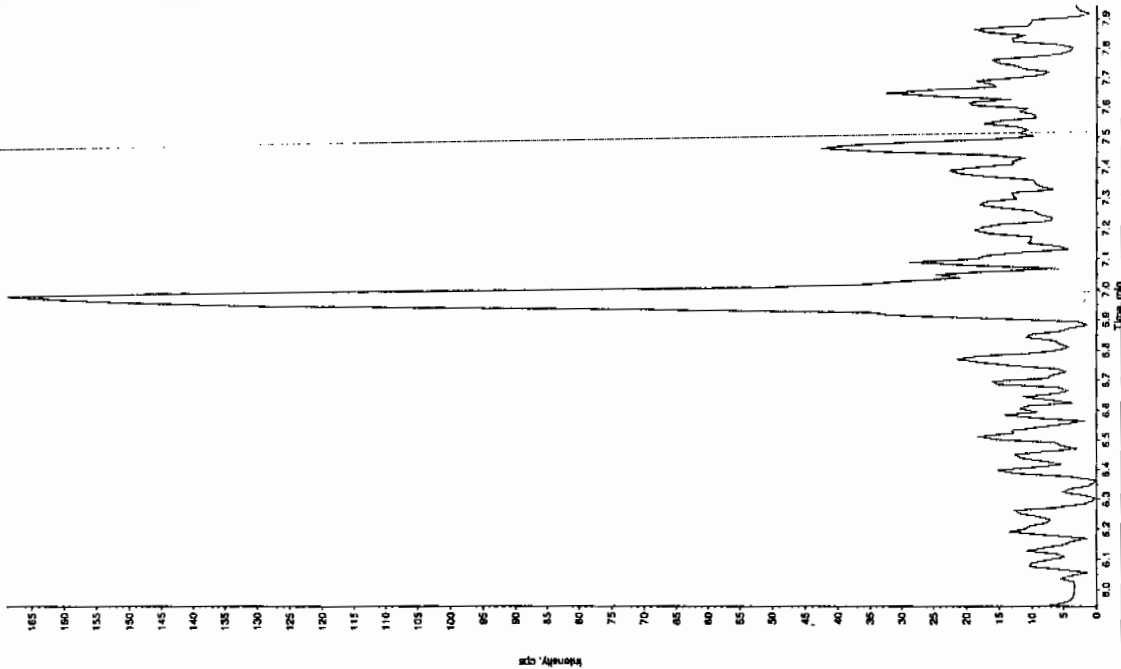
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0
3,5-Dinitroaniline	0	0
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0

01/13/10
JAN 2010

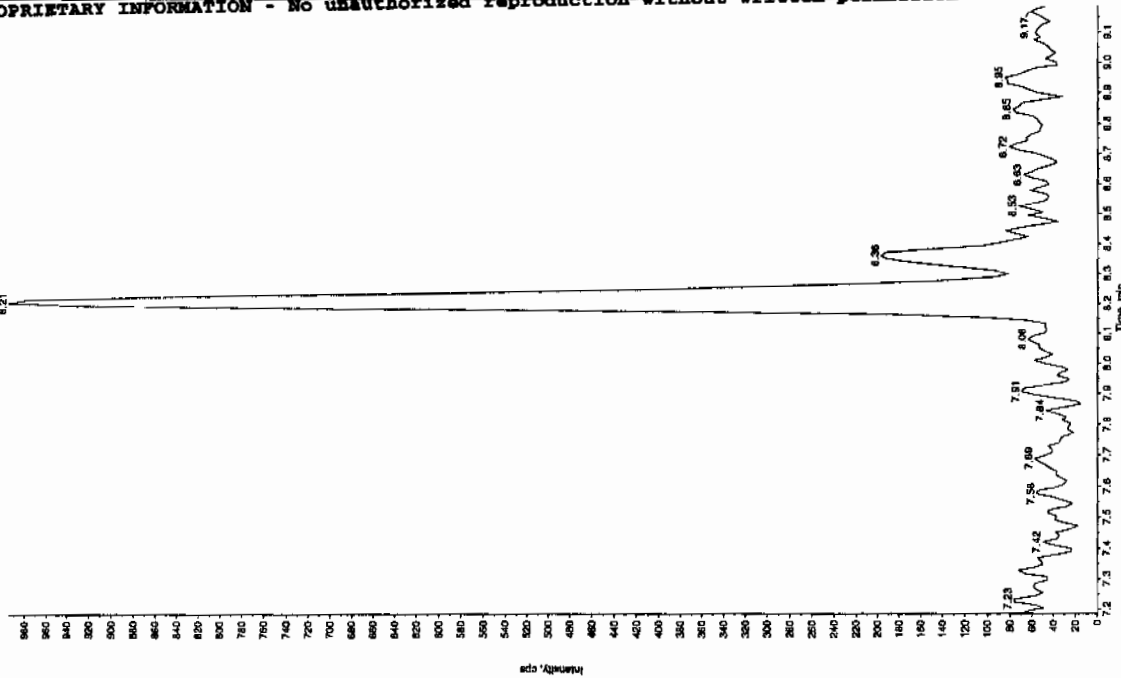
Sample Name: "XIBLK11" Sample ID: "1111EP" File: "EXS0010101.wif"
Peak Name: "125-Diethylamine" Mass(es): "252.204.3 amu"
Comment: "LCMSEXP_B" Annotation: "1"

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 3/2/2010
Acq. Time: 11:17:09 AM
Modified: No



Sample Name: "XIBLK11" Sample ID: "1111EP" File: "EXS0010101.wif"
Peak Name: "35-Diethylamine" Mass(es): "192.046.0 amu"
Comment: "LCMSEXP_B" Annotation: "1"

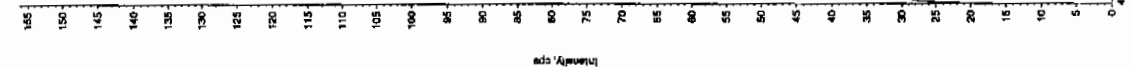
Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 3/2/2010
Acq. Time: 11:17:09 AM
Modified: No



4mm 03/10 4/10

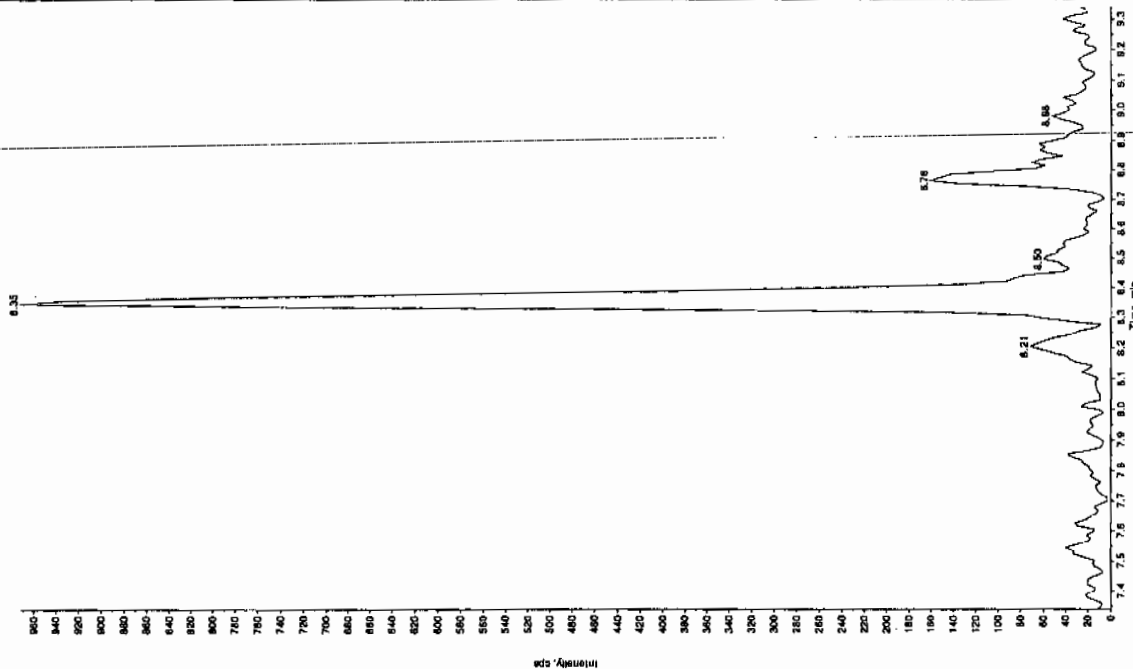
Sample Name: "XIBUK11" Sample ID: "1111ER" File: "EXS03010101.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "185.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3/2/2010
 Acq. Date: 11/17/09 AM
 Acq. Time: 11:17:09 AM
 Modified: No



Sample Name: "XIBUK11" Sample ID: "1111ER" File: "EXS03010101.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

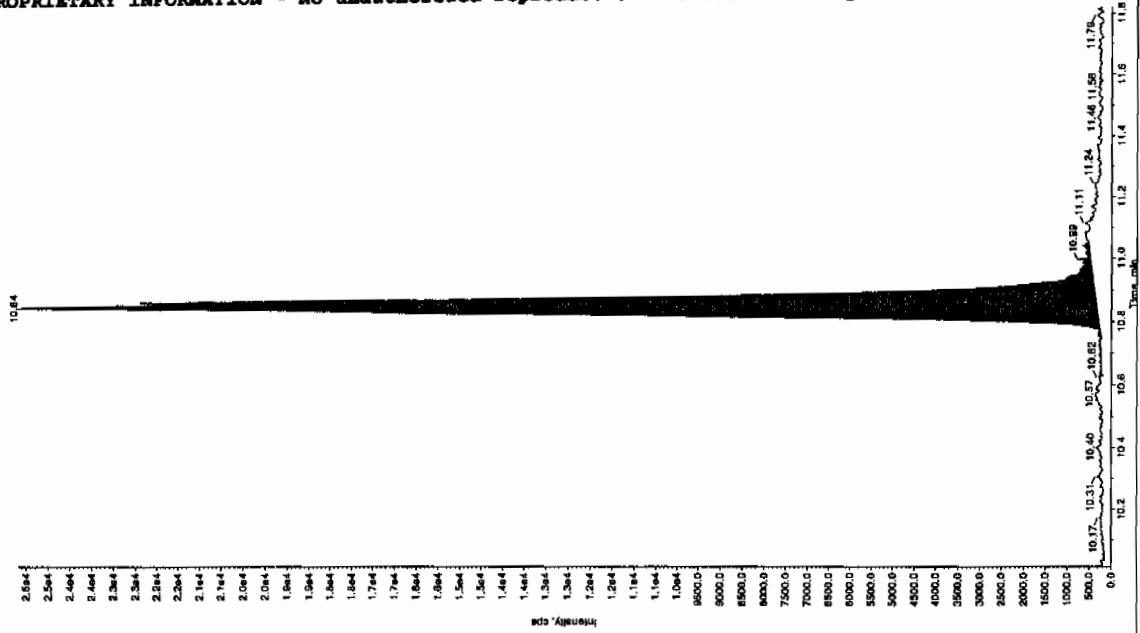
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3/2/2010
 Acq. Date: 11/17/09 AM
 Acq. Time: 11:17:09 AM
 Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

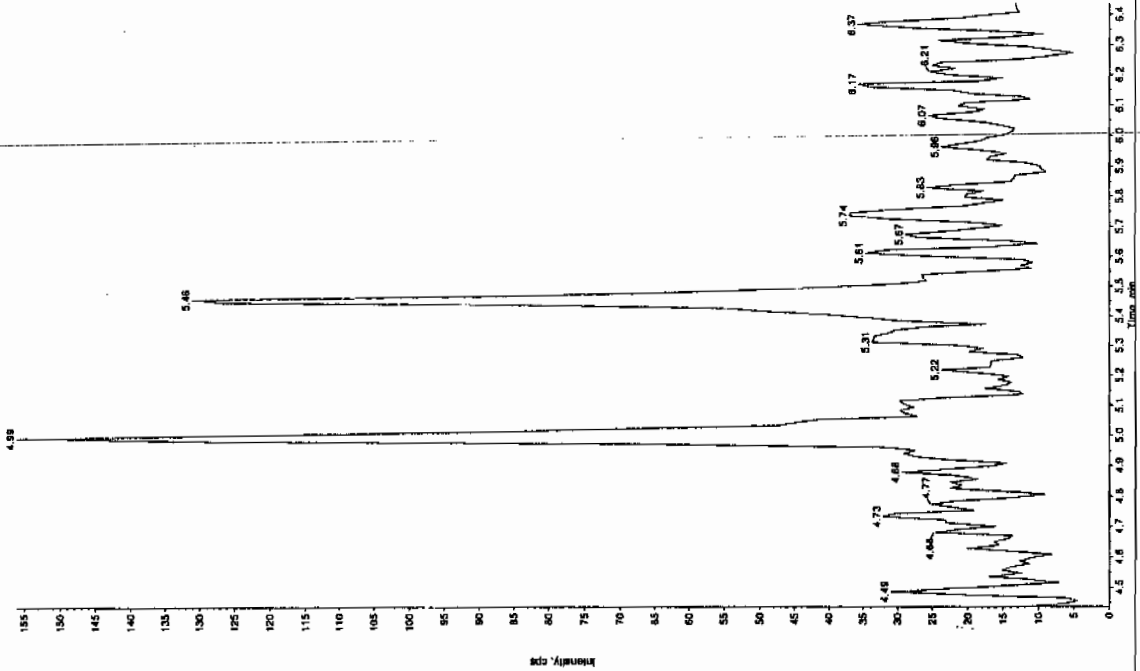
Sample Name: "XBLK11" Sample ID: "11LER" File: "EX503010101.wif"
 Peak Name: "bis(2-oxo-1,3-oxazolidinone)" Mass(es): "369.181.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: No Intercept
 Acq. Date: 3/2/2010
 Acq. Time: 11:17:09 AM
 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: 10.8 min
 Area: 9.03e+004 counts
 Height: 24863.672 cps
 Start Time: 10.7 min
 End Time: 11.1 min



Sample Name: "XBLK11" Sample ID: "11LER" File: "EX503010101.wif"
 Peak Name: "24-Diamino-6-nitroindane" 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: 11:17:09 AM
 Modified: No



Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK12

Analysis Date: 02-MAR-10 12:20

GEL Data File: EXS03010105.wiff

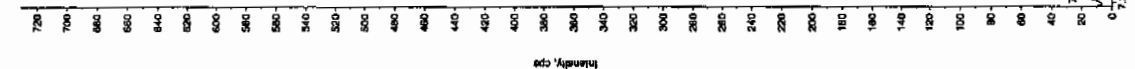
Instrument ID: LCMSMS

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

Sample Name: "YBLK12" Sample ID: "TILER" File: "EXS0010105.wif"
 Peak Name: "35-Diuroniline" Mass(es): "162.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

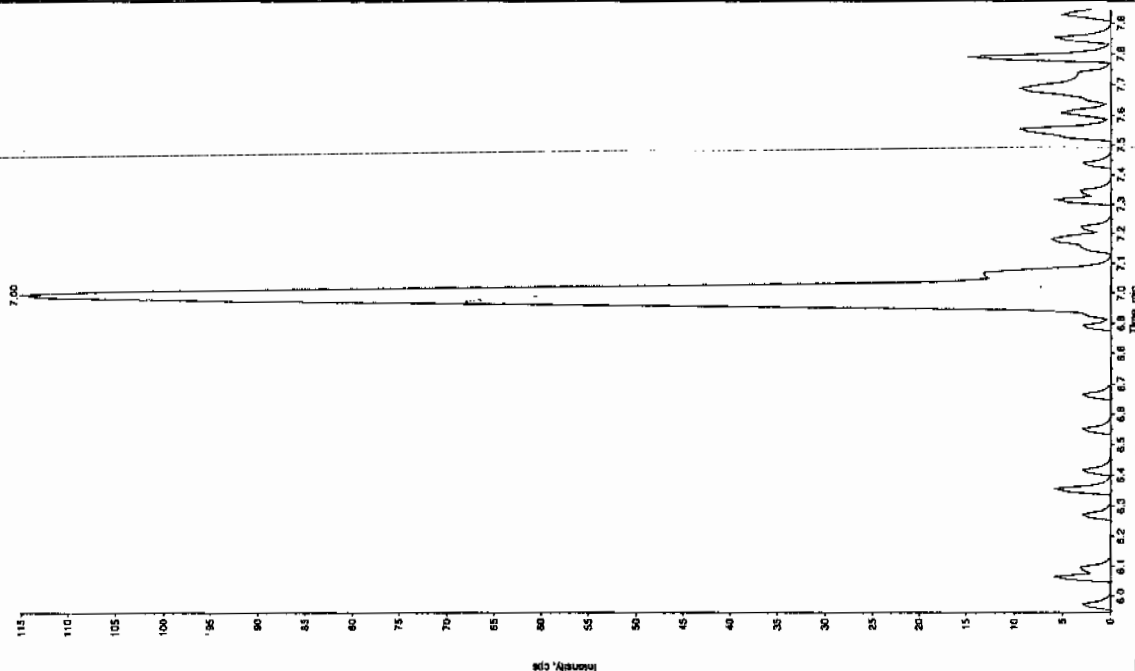
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/2/2010
 Acq. Date: 12:20:11 PM
 Acq. Time: 12:20:11 PM
 Modified: No



Hum 03 (04/11)

Sample Name: "YBLK12" Sample ID: "TILER" File: "EXS0010105.wif"
 Peak Name: "35-Diuroniline" Mass(es): "162.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

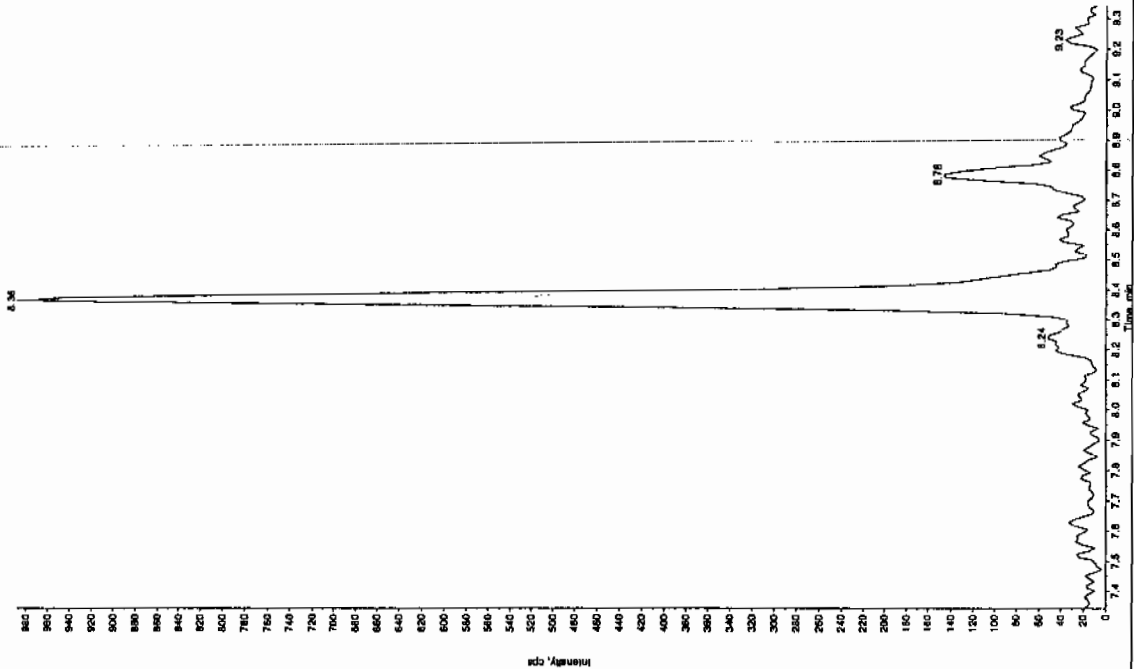
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/2/2010
 Acq. Date: 12:20:11 PM
 Acq. Time: 12:20:11 PM
 Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

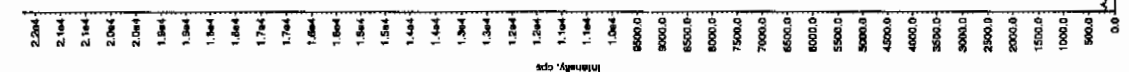
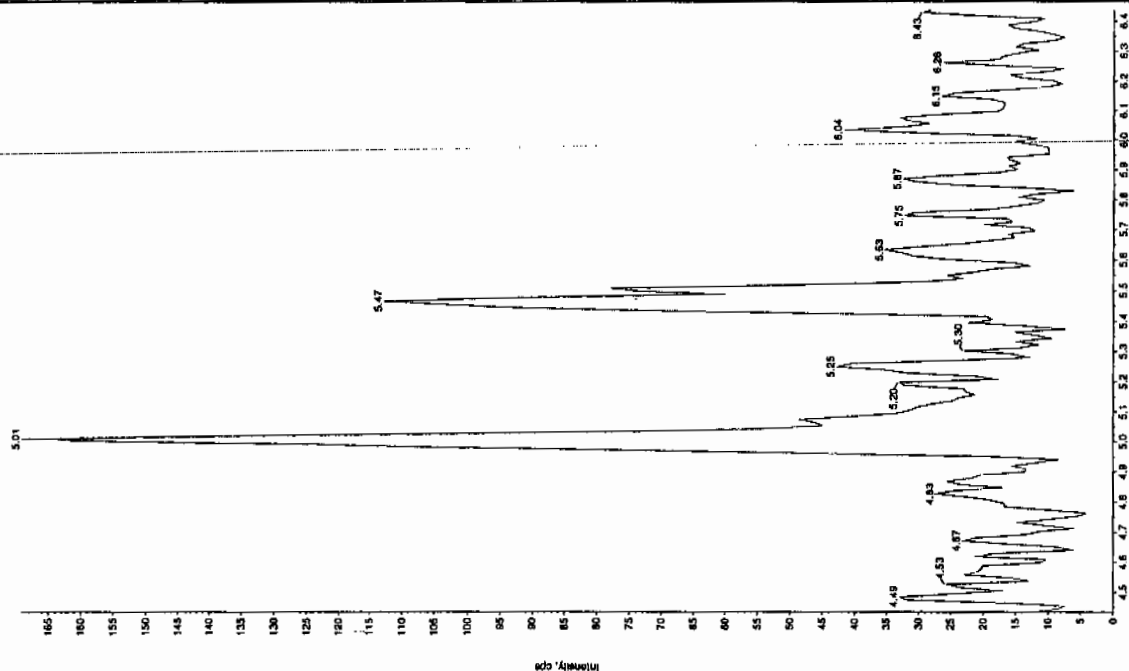
Sample Name: "XIBLK12" Sample ID: "TILER" File: "EXS03010105.wif"
 Peak Name: "25-Dinitro-4-nitrobenzene" Mass(es): "165.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 12:20:11 PM
 Modified: No



Sample Name: "XIBLK12" Sample ID: "TILER" File: "EXS03010105.wif"
 Peak Name: "25-Dinitro-4-nitrobenzene" Mass(es): "162.1751.9 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: 12:20:11 PM
 Modified: No



Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1567

Lab Code: GEL

Lab Sample ID: XIBLK13

Analysis Date: 02-MAR-10 14:10

GEL Data File: EXS03010112.wiff

Instrument ID: LCMSMS

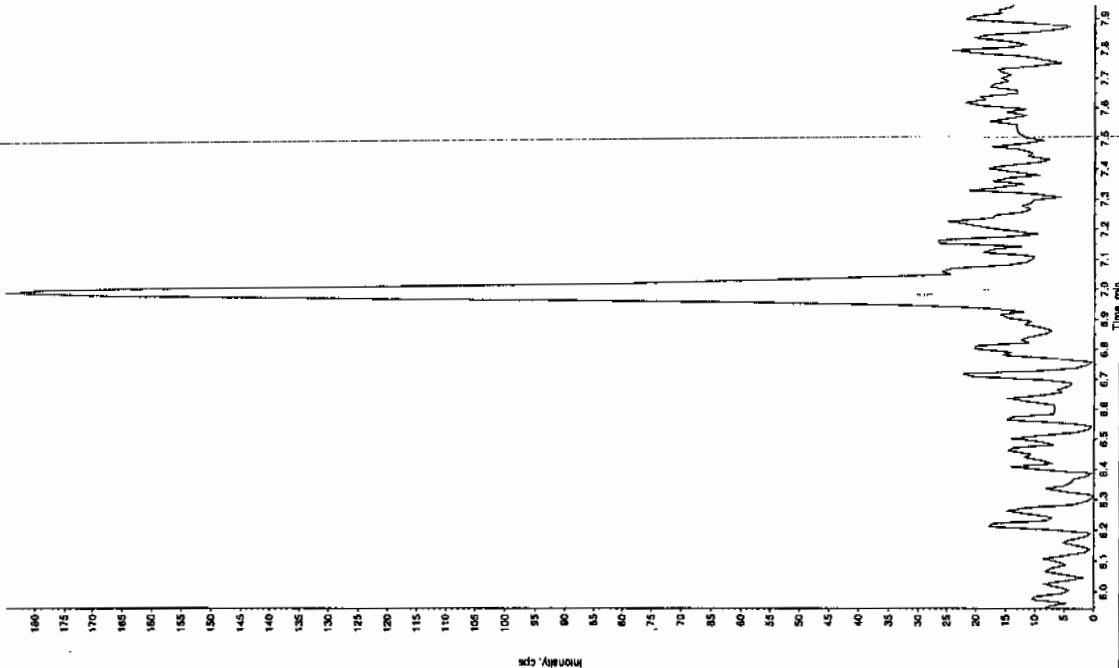
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
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
3,4-Dinitrotoluene	0	0

01/12/10
JUN 23/10 4/10

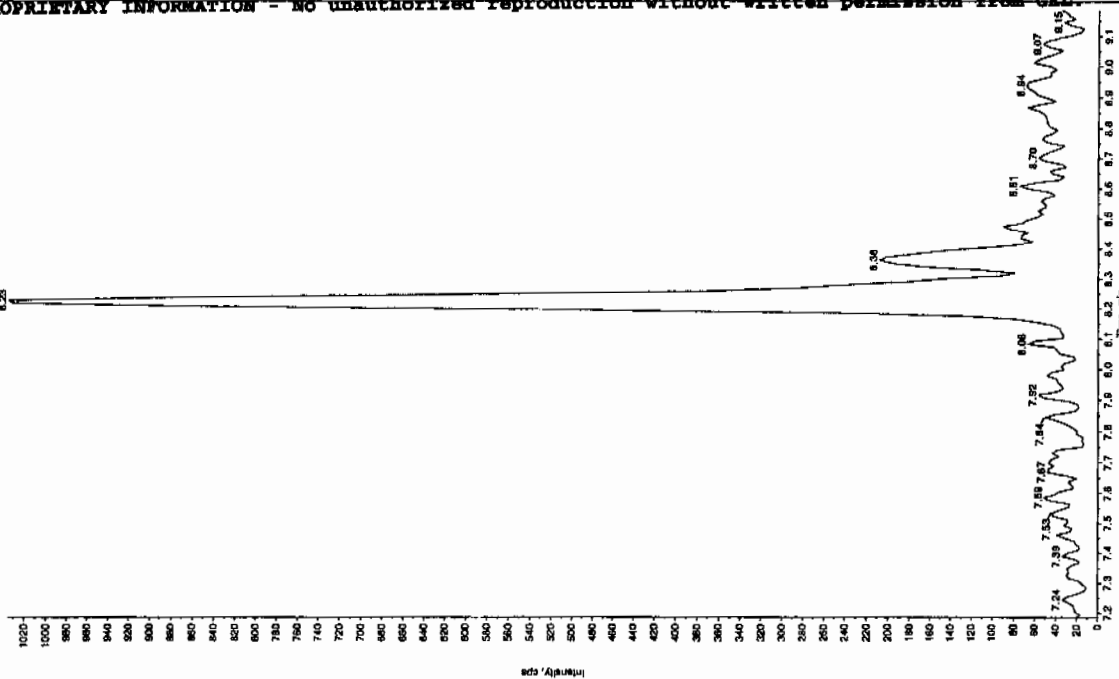
Sample Name: "XBLK13" Sample ID: "TILER" File: "EXS03010112.wif"
Peak Name: "TATB" Mass(es): 257.2204.9 amu
Comment: "LONSEXP_5" Annotation: "

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



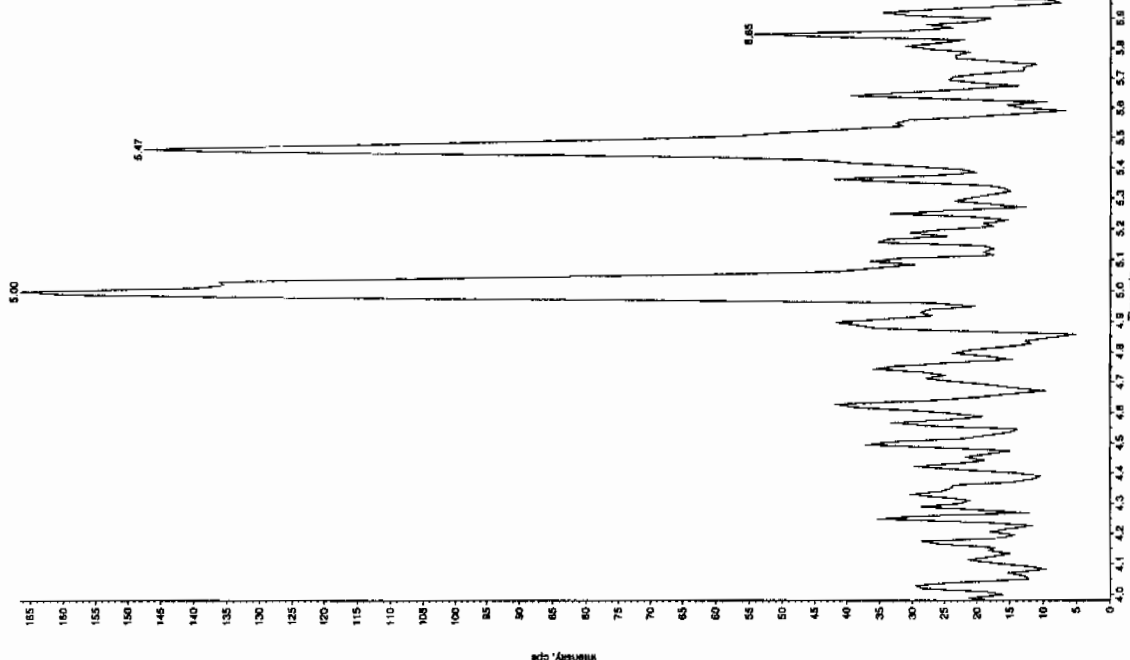
Sample Name: "XBLK13" Sample ID: "TILER" File: "EXS03010112.wif"
Peak Name: "35-Dinitrophenol" Mass(es): 182.0460 amu
Comment: "LONSEXP_B" Annotation: "

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/2/2010
Acq. Time: 2:10:39 PM
Modified: No



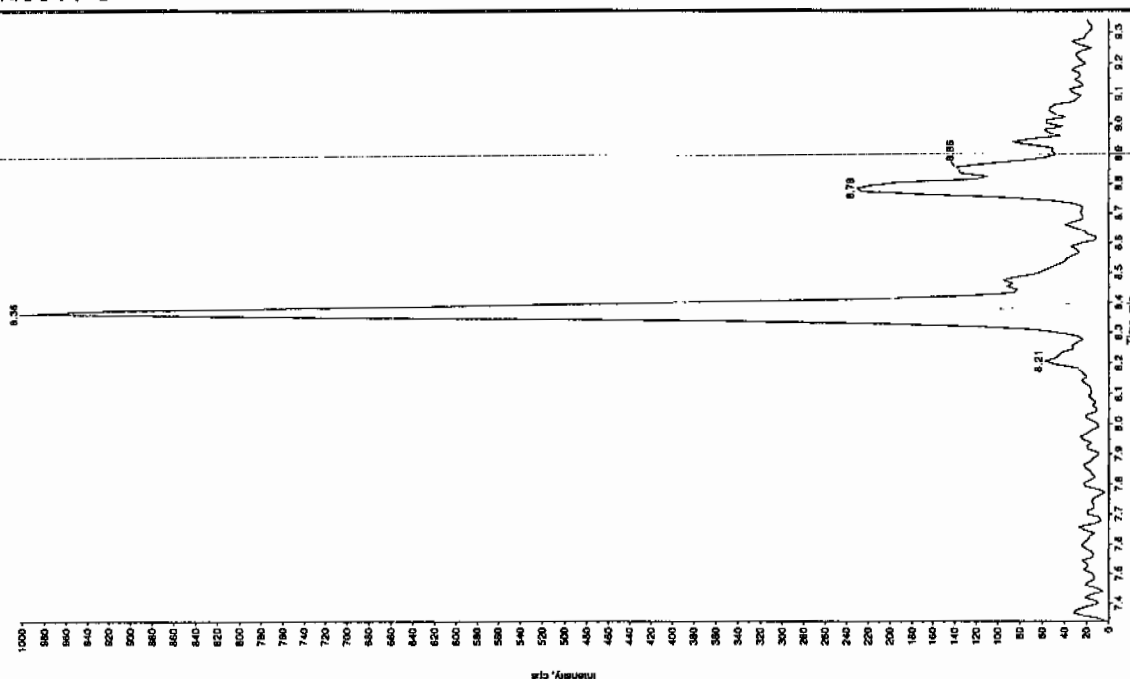
Sample Name: "XBLK13" Sample ID: "111ER" File: "EXS03010112.wif"
 Peak Name: "28-Diamino-4-nitroalkene" Mass(es): "166.0460 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 2:10:39 PM
 Modified: No



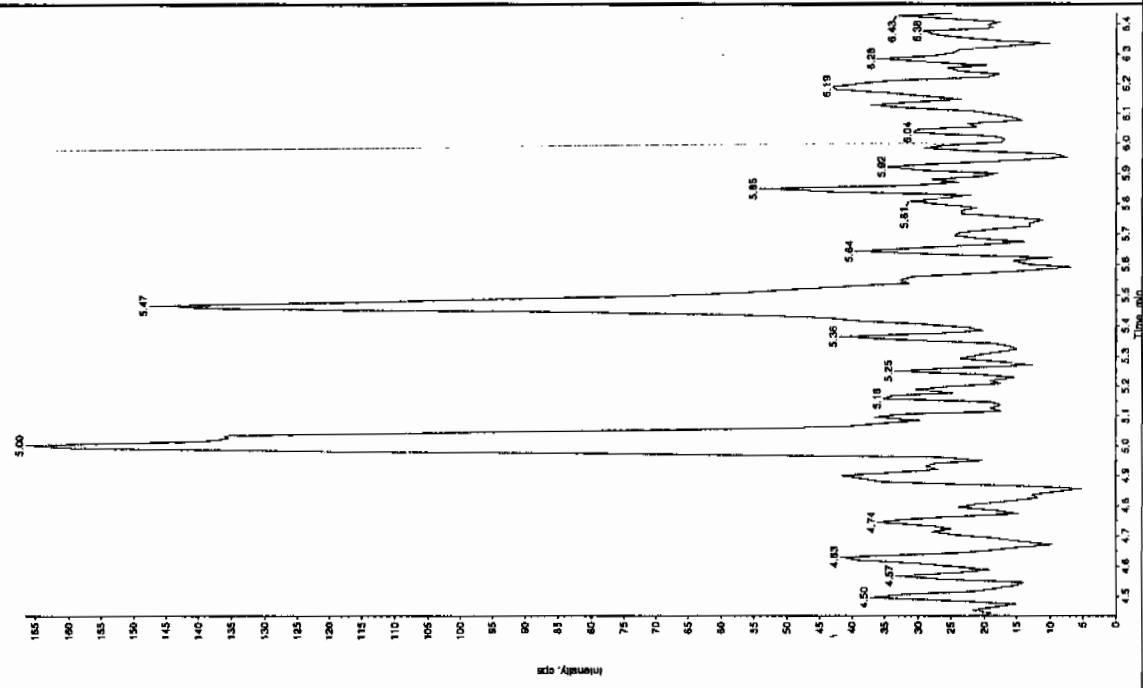
Sample Name: "XBLK13" Sample ID: "111ER" File: "EXS03010112.wif"
 Peak Name: "34-Dinitroalkene" Mass(es): "182.11519 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 2:10:39 PM
 Modified: No



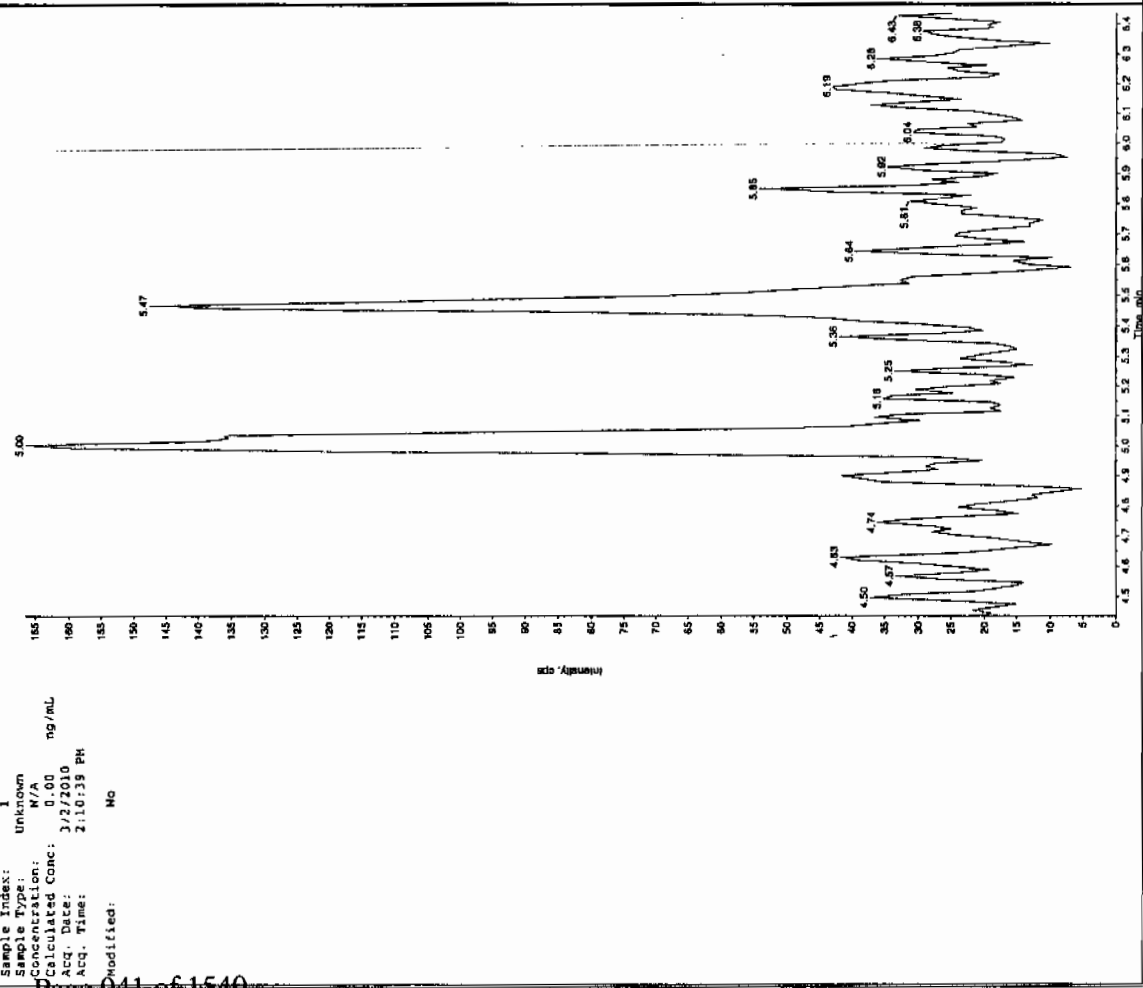
Sample Name: "XBLX13" Sample ID: "11LRF" File: "EX50001012.wif"
Peak Name: "Tri(n-butyl) phosphite" Mass(es): 359.191.0 amu
Comment: "LONSEXP_B" Annotation: "

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: < 0
Acq. Date: 3/2/2010
Acq. Time: 2:10:39 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: 10.8 min
Height: 92400 counts
Area: 28969.969 cps
Start Time: 10.7 min
End Time: 11.1 min



Sample Name: "XBLX13" Sample ID: "11LRF" File: "EX50001012.wif"
Peak Name: "24-chloro-6-methoxyphenol" Mass(es): 186.048.0 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: 2:10:39 PM
Modified: No



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

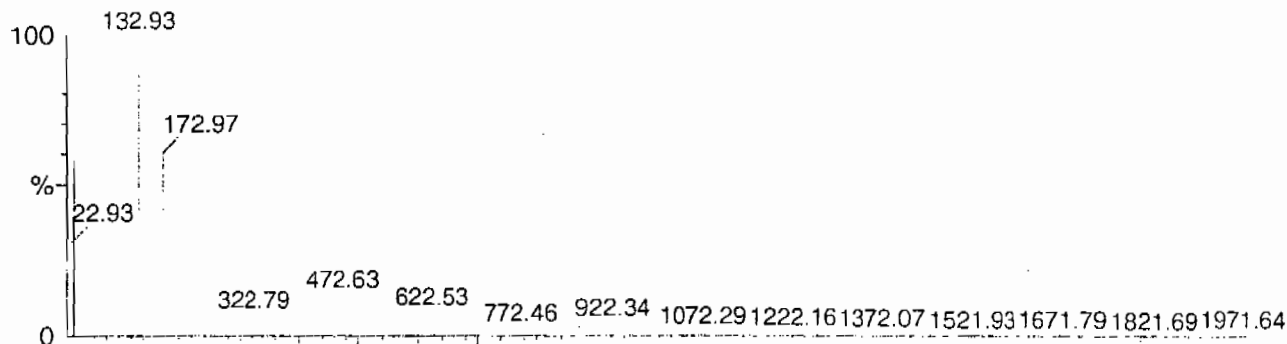
Calibration Report - MS1 Static

Page 1 of 1

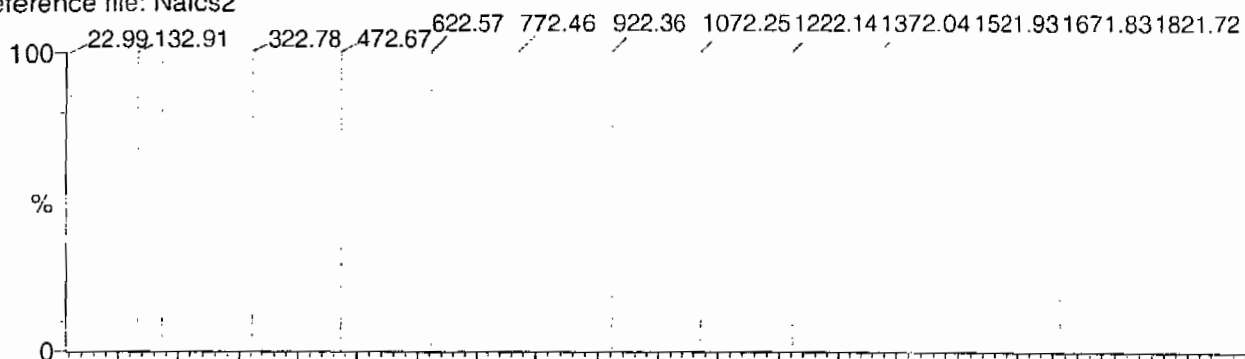
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

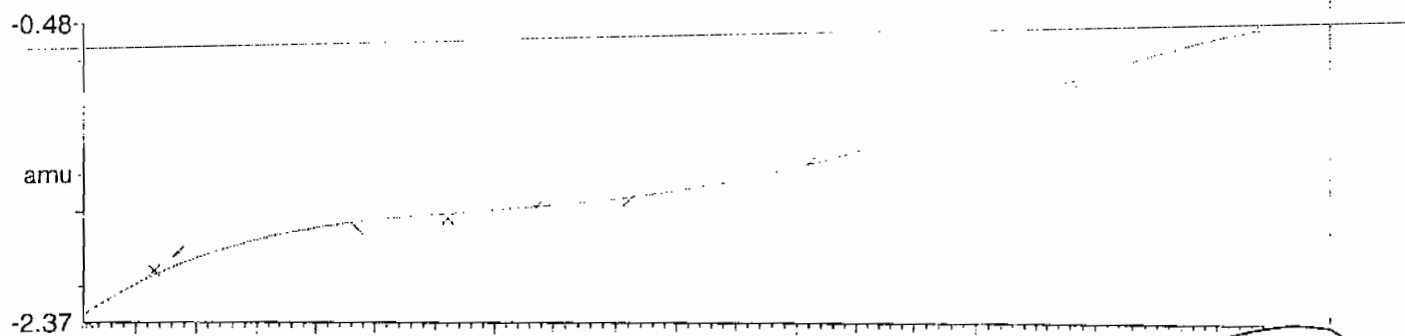
15 matches of 15 tested references



Reference file: Naics2

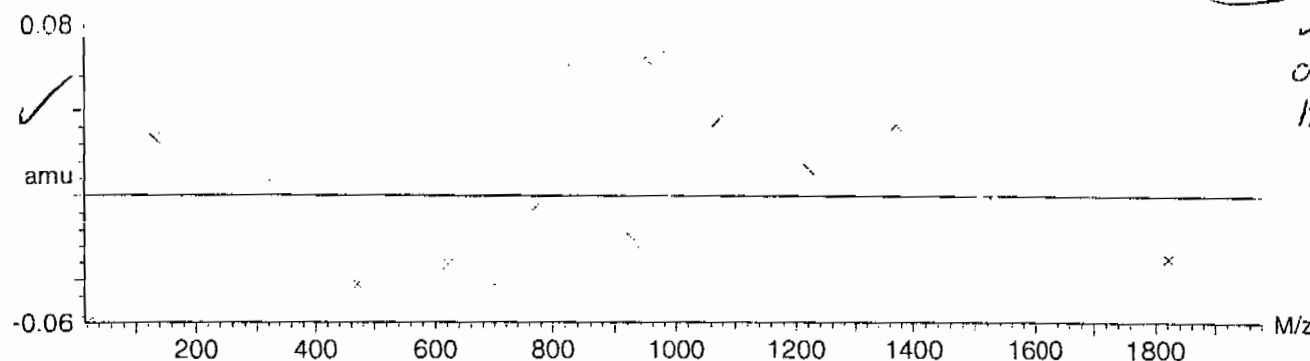


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-1.673470 \times 10^{-9} \pm 0.036953$



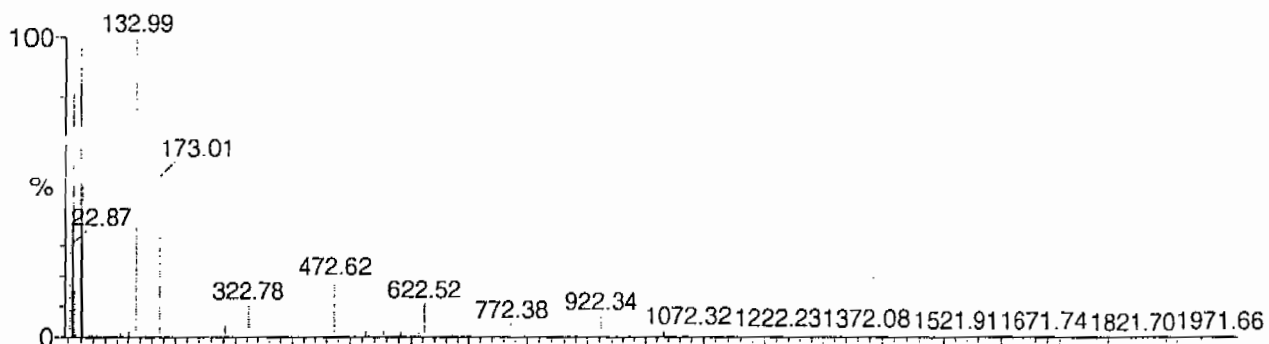
Calibration Report - MS1 Scanning

Page 1 of 1

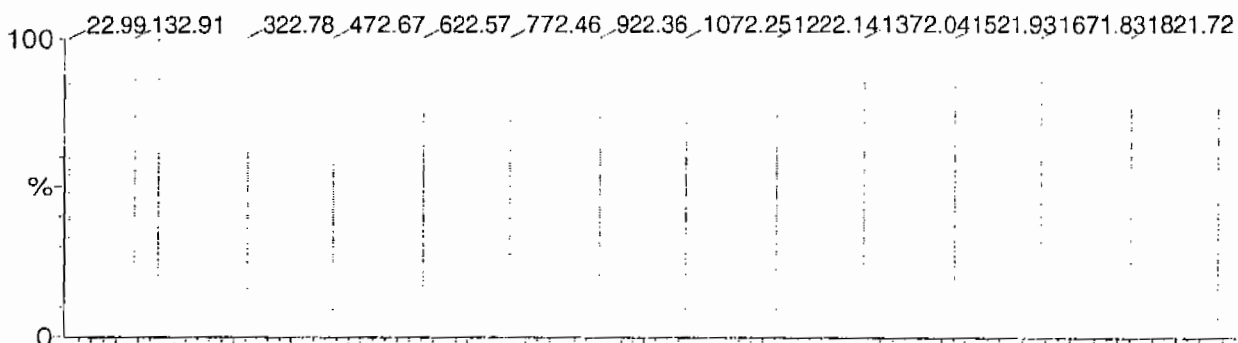
Printed: Fri Aug 25 10:51:06 2006

Data file: SCNMS1 - Calibrated

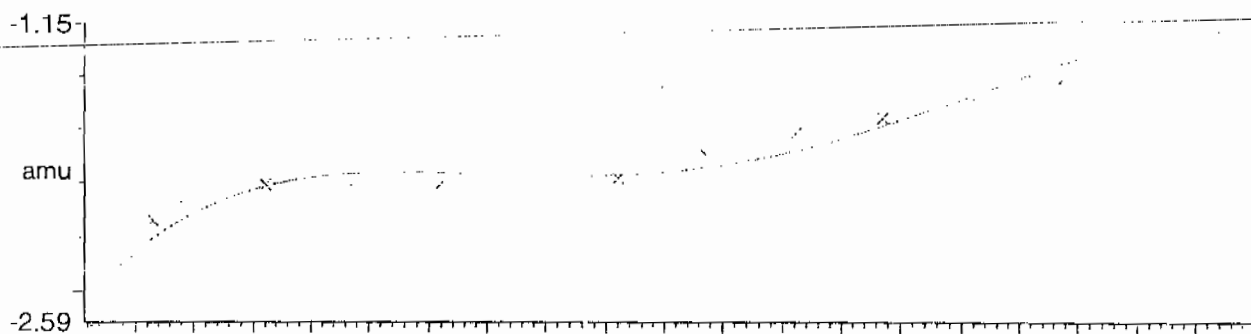
15 matches of 15 tested references:



Reference file: Naics2

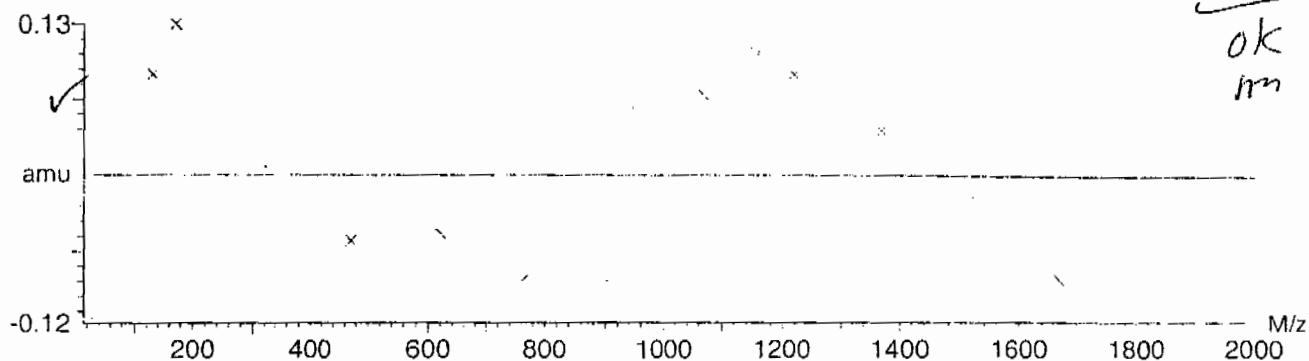


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-5.432715 \times 10^{-9} \pm 0.069858$



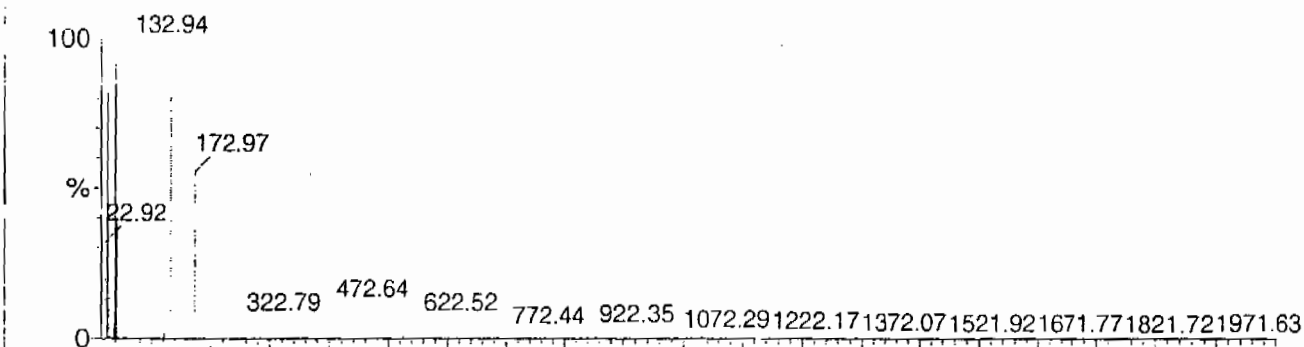
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

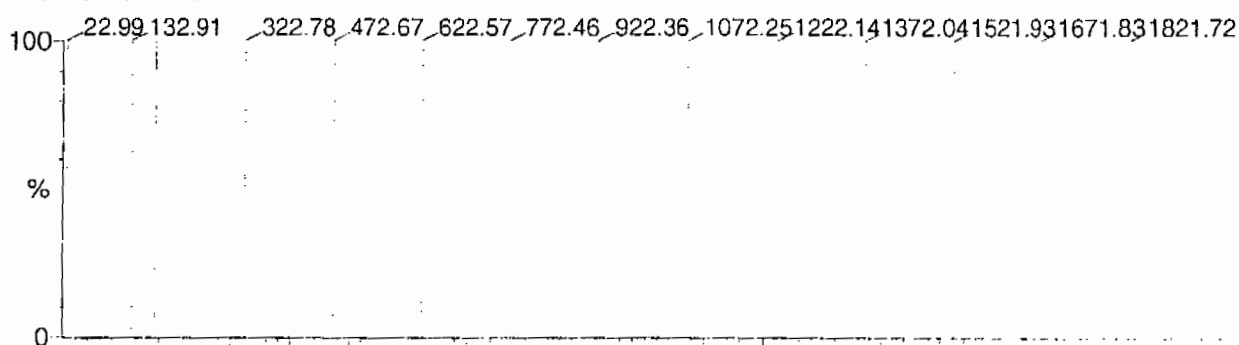
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

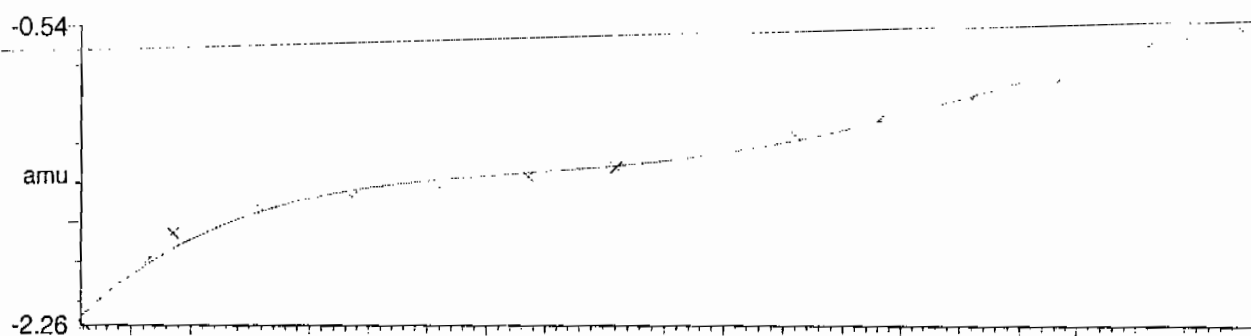
15 matches of 15 tested references



Reference file: Naics2

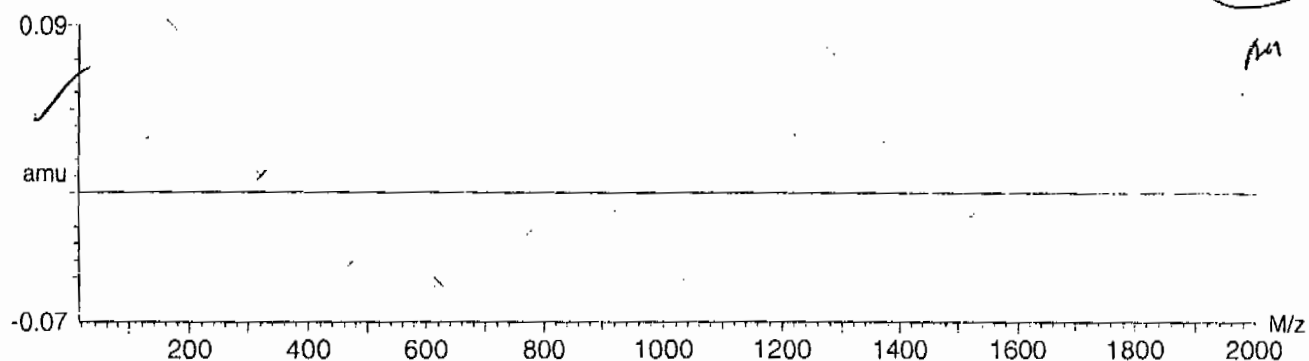


Mass difference (Raw - Ref mass)



Residuals

Mean residual = 3.486639×10^{-9} ± 0.040487



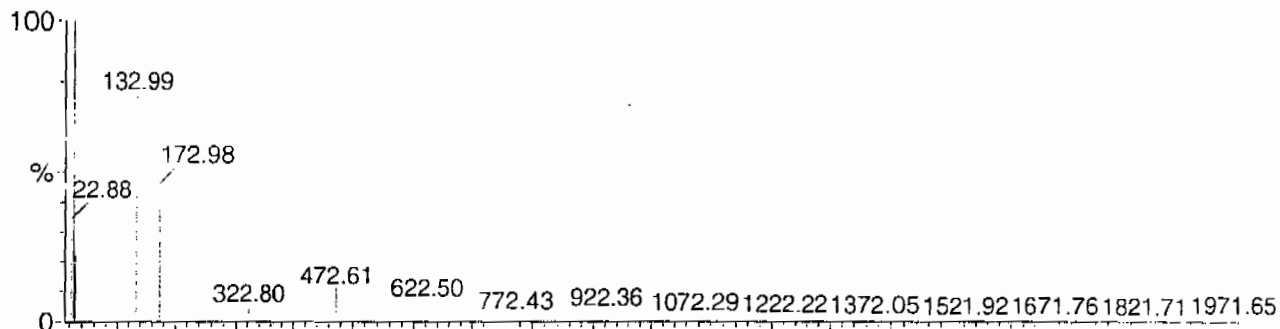
Calibration Report - MS2 Static

Page 1 of 1

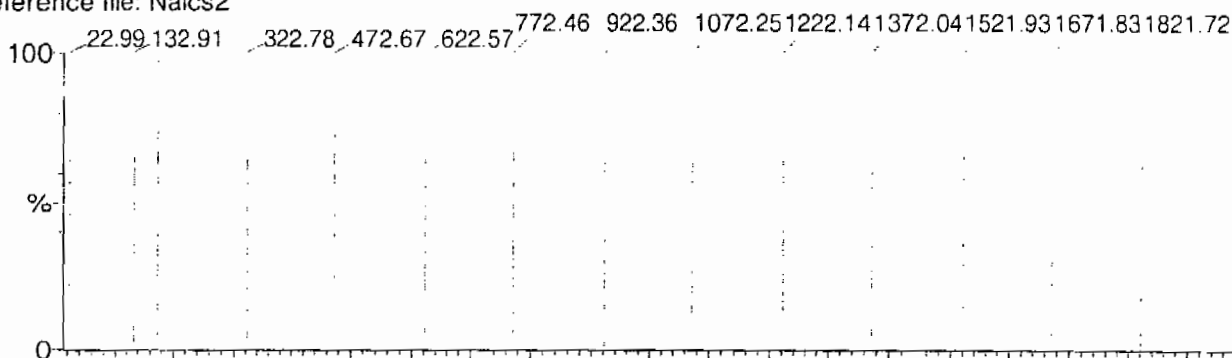
Printed: Fri Aug 25 10:52:54 2006

Data file: STATMS2 - Calibrated

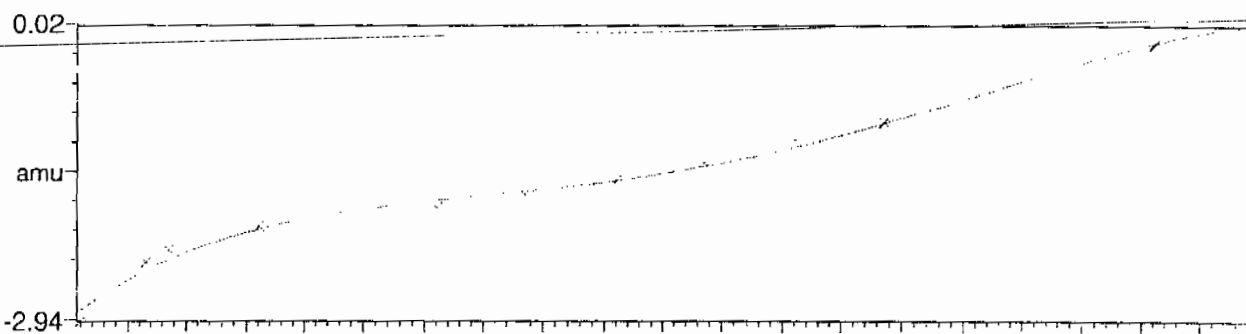
15 matches of 15 tested references



Reference file: Naics2

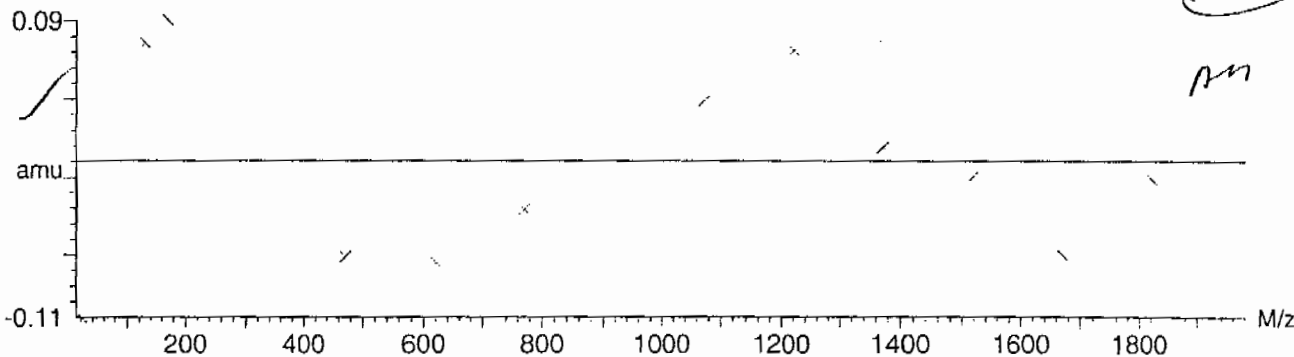


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $2.048910 \times 10^{-9} \pm 0.057803$



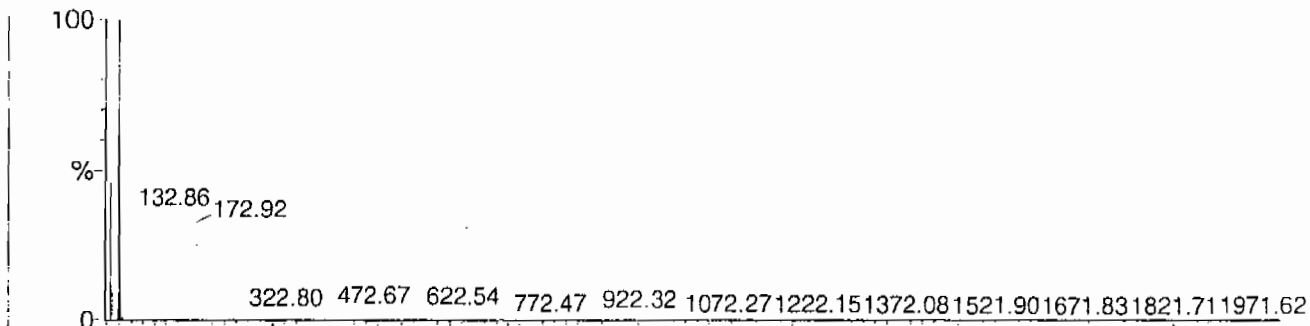
Calibration Report - MS2 Scanning

Page 1 of 1

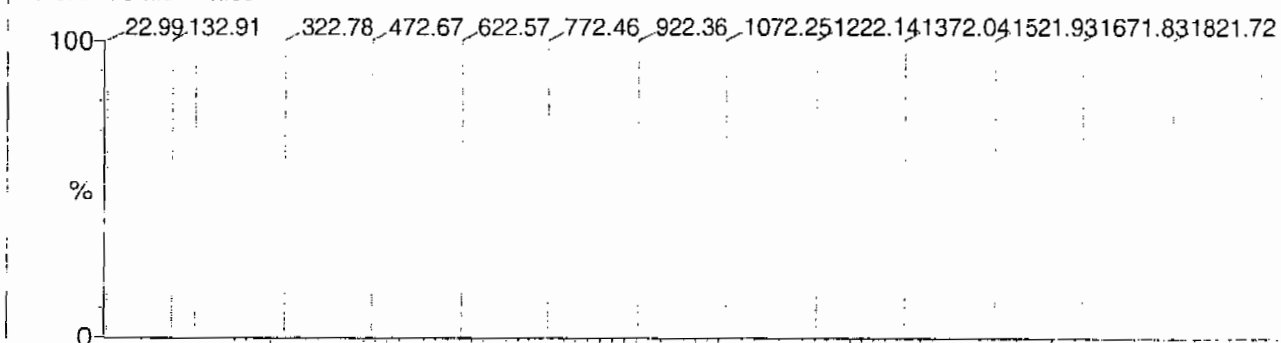
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

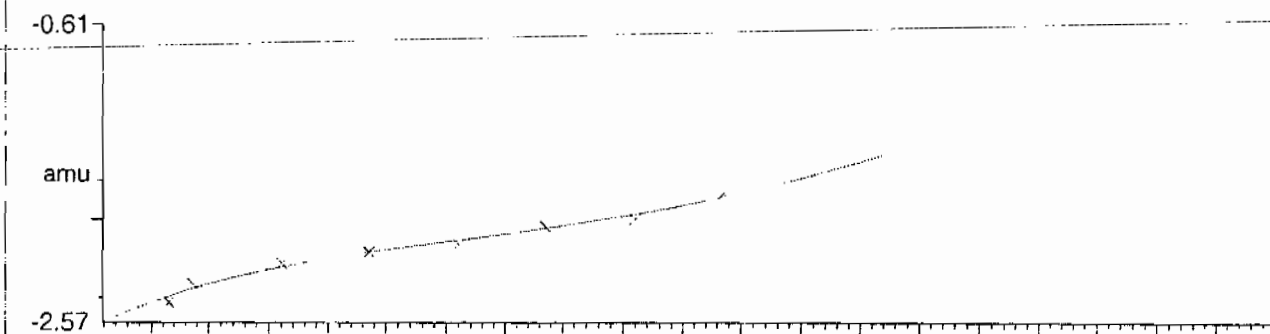
14 matches of 15 tested references



Reference file: Naics2

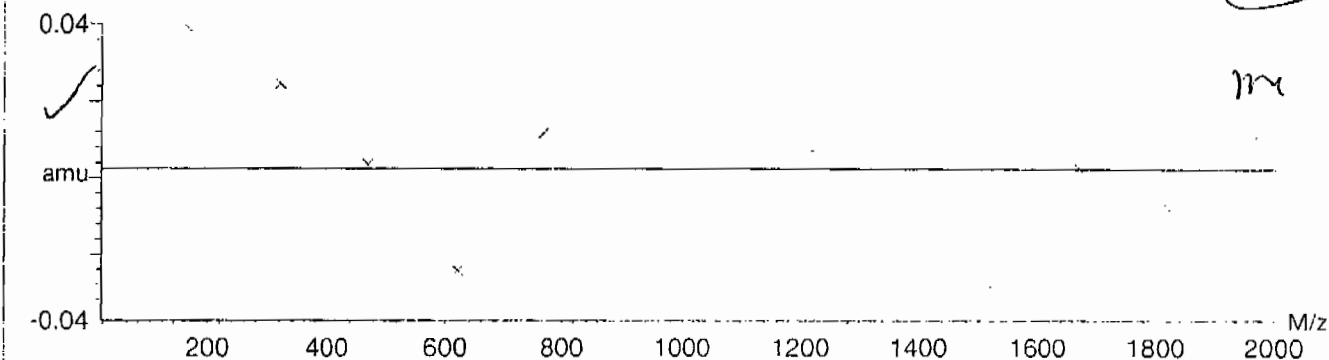


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-2.623502e-9 \pm 0.025622$



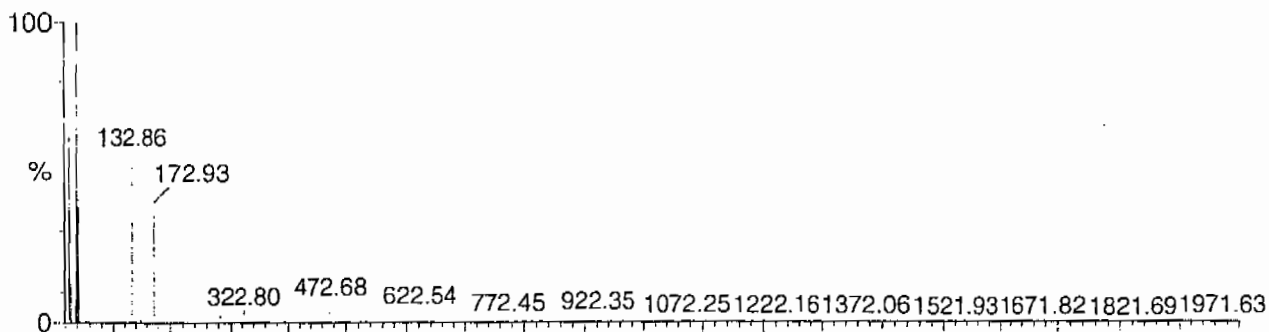
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

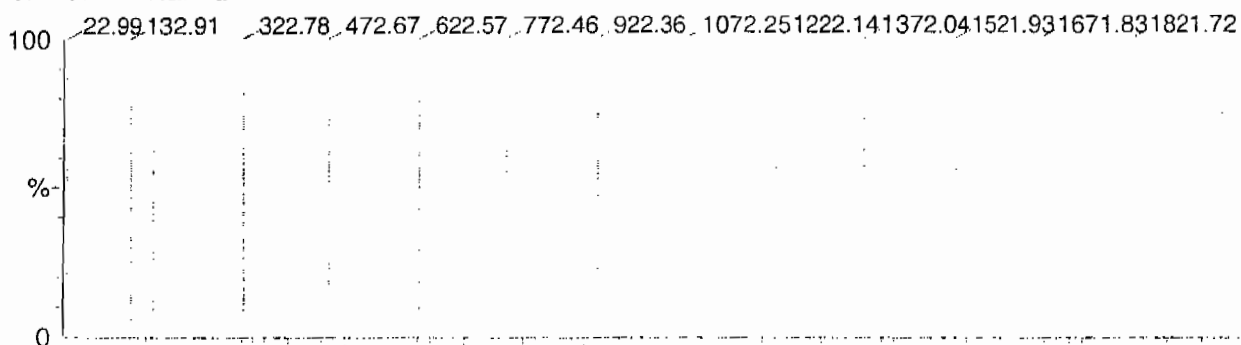
Printed: Fri Aug 25 10:54:54 2006

Data file: FASTMS2 - Calibrated

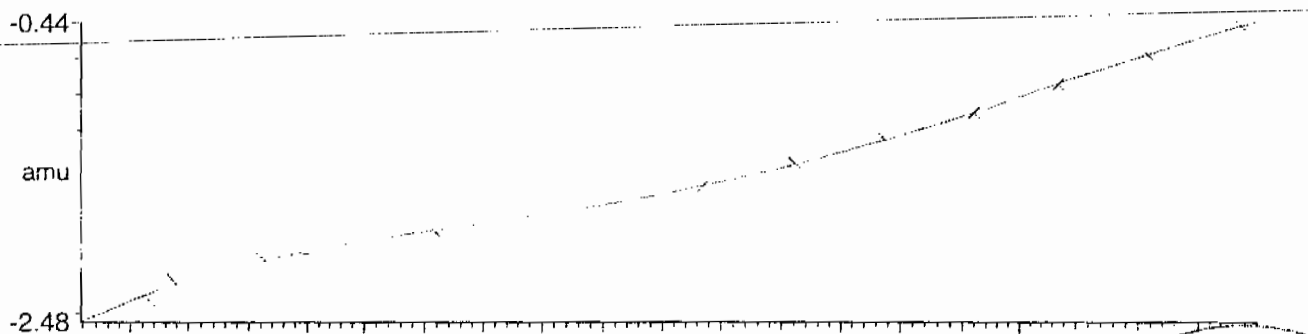
14 matches of 15 tested references



Reference file: Naics2

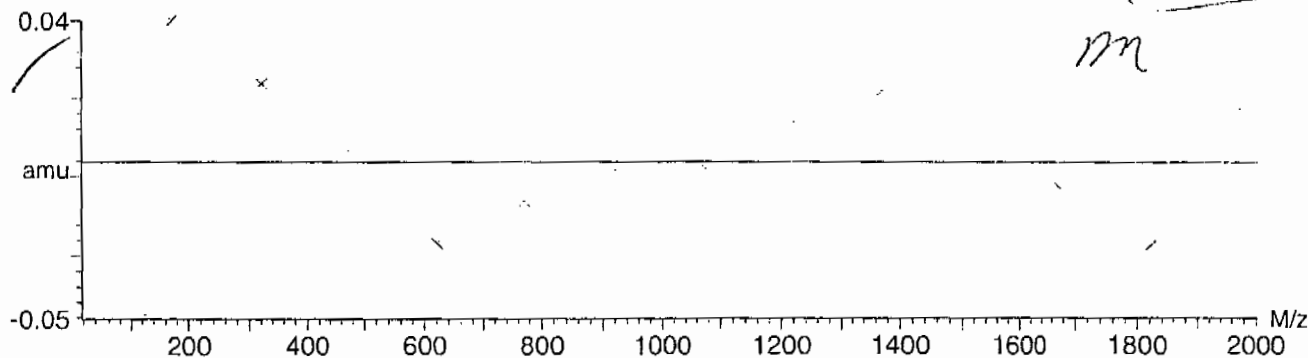


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-6.785350 \times 10^{-9} \pm 0.023134$



High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEI

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) #
			21250000	10.55	98666666.667	14.717
Upper Limit			27625000	11.05	128266666.667	15.217
Lower Limit			14875000	10.05	69066666.6669	14.217
MB for batch 950080	13-mar-10 17:25	EXP0312077.w	20200000	10.6	91800000	14.8
LCS for batch 950080	13-mar-10 17:52	EXP0312078.w	19400000	10.6	94000000	14.8
RE15-10-8304	13-mar-10 23:36	EXP0312091.w	20900000	10.7	88100000	14.9
RE15-10-8304(246330002MS)	14-mar-10 00:02	EXP0312092.w	18200000	10.6	81300000	14.9
RE15-10-8304(246330002MSD)	14-mar-10 00:28	EXP0312093.w	17000000	10.6	80200000	14.9
RE15-10-8305	14-mar-10 00:55	EXP0312094.w	19300000	10.7	87200000	14.9
RE15-10-8306	14-mar-10 01:21	EXP0312095.w	18800000	10.7	86400000	14.9
RE15-10-8307	14-mar-10 01:48	EXP0312096.w	18100000	10.6	89600000	14.9
RE15-10-8309	14-mar-10 03:14	EXP0312097.w	19700000	10.7	85600000	15
RE15-10-8308	14-mar-10 03:41	EXP0312098.w	18800000	10.7	84000000	14.9
RE15-10-8301	14-mar-10 05:26	EXP0312102.w	20800000	10.7	87700000	15
RE15-10-8300	14-mar-10 05:53	EXP0312103.w	18500000	10.7	113000000	15
RE15-10-8324	14-mar-10 06:19	EXP0312104.w	20100000	10.8	87400000	15

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8304

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330002

Sample Amount 2

Moisture: 20.3

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312091.wiff

Date Analyzed: 13-MAR-10 23:36

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

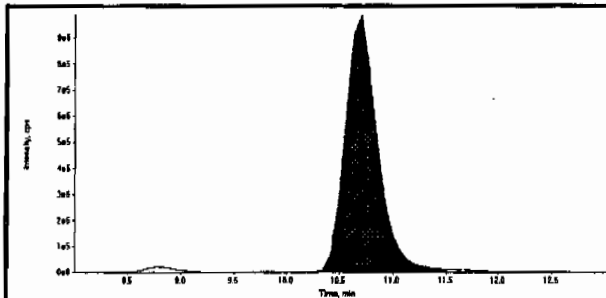
*Concentration =

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

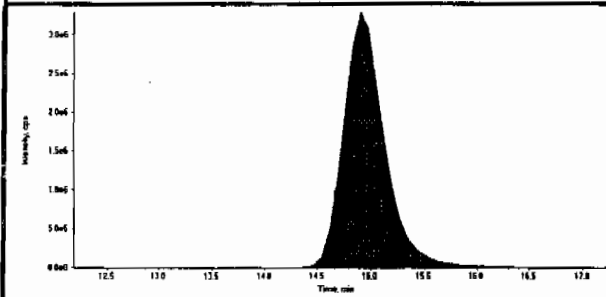
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

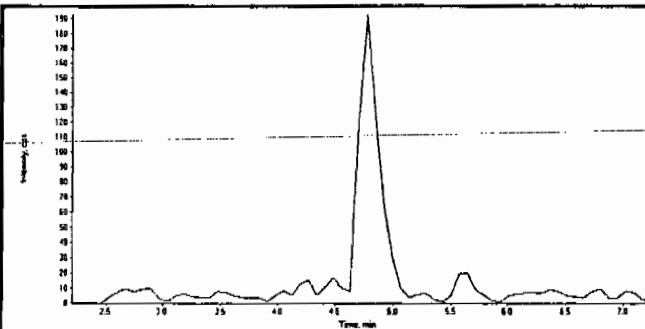
Data File	EXP0312091.wiff	Acquisition Date	3/13/2010 11:36:09 PM
Sample Name	246330002	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



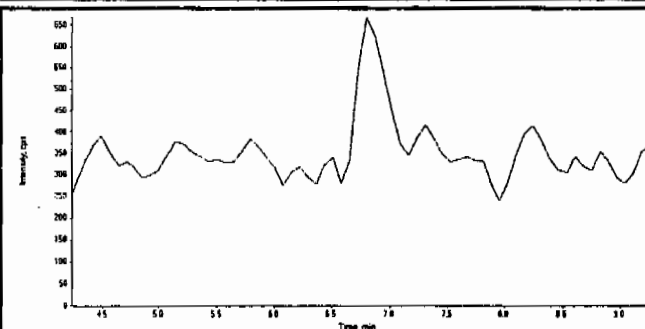
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.70
Area Counts:	20900000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	88100000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



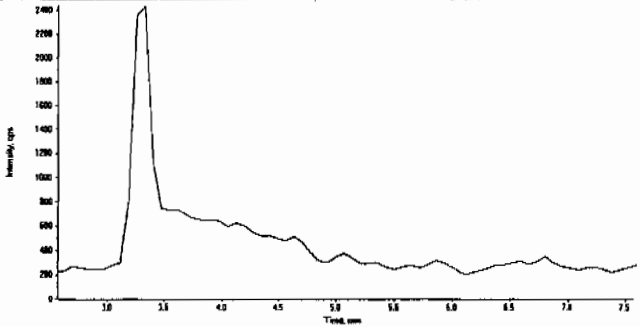
Compound Name:	RDx (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

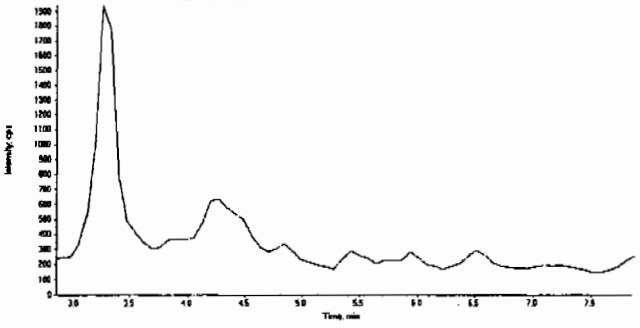
Handwritten signature and date:
3/24/10 HMM
03/24/10

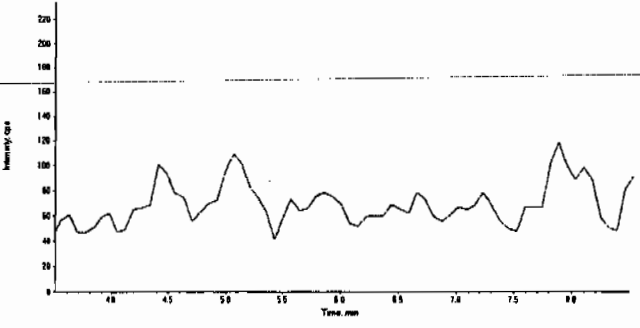
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

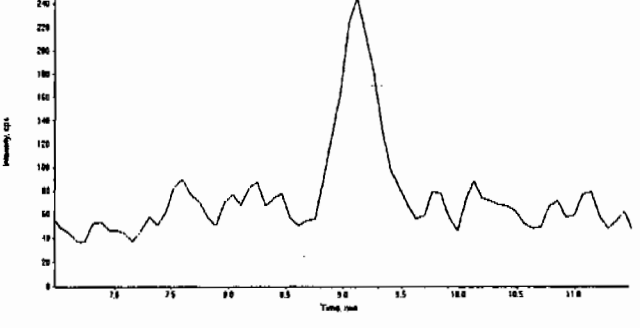
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312091.wiff	Acquisition Date	3/13/2010 11:36:09 PM
Sample Name	246330002	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312091.wiff	Acquisition Date	3/13/2010 11:36:09 PM
Sample Name	246330002	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312091.wiff	Acquisition Date	3/13/2010 11:36:09 PM
Sample Name	246330002	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	5.43e+007
	Manual Modification	No
	Amount:	250. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	14.9
	Area Counts:	8.21e+005
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312091.wiff	Acquisition Date	3/13/2010 11:36:09 PM
Sample Name	246330002	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

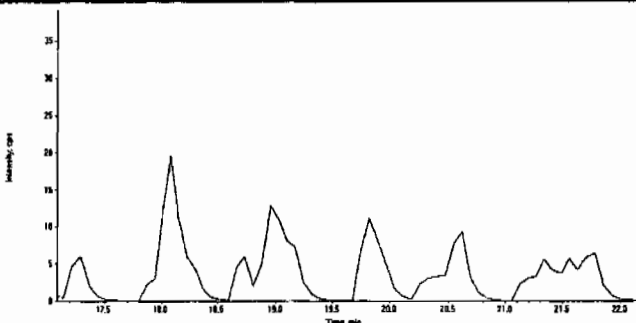
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312091.wiff	Acquisition Date	3/13/2010 11:36:09 PM
Sample Name	246330002	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8304

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330002

Sample Amount 2

Moisture: 20.3

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010091.wiff

Date Analyzed: 02-MAR-10 08:39

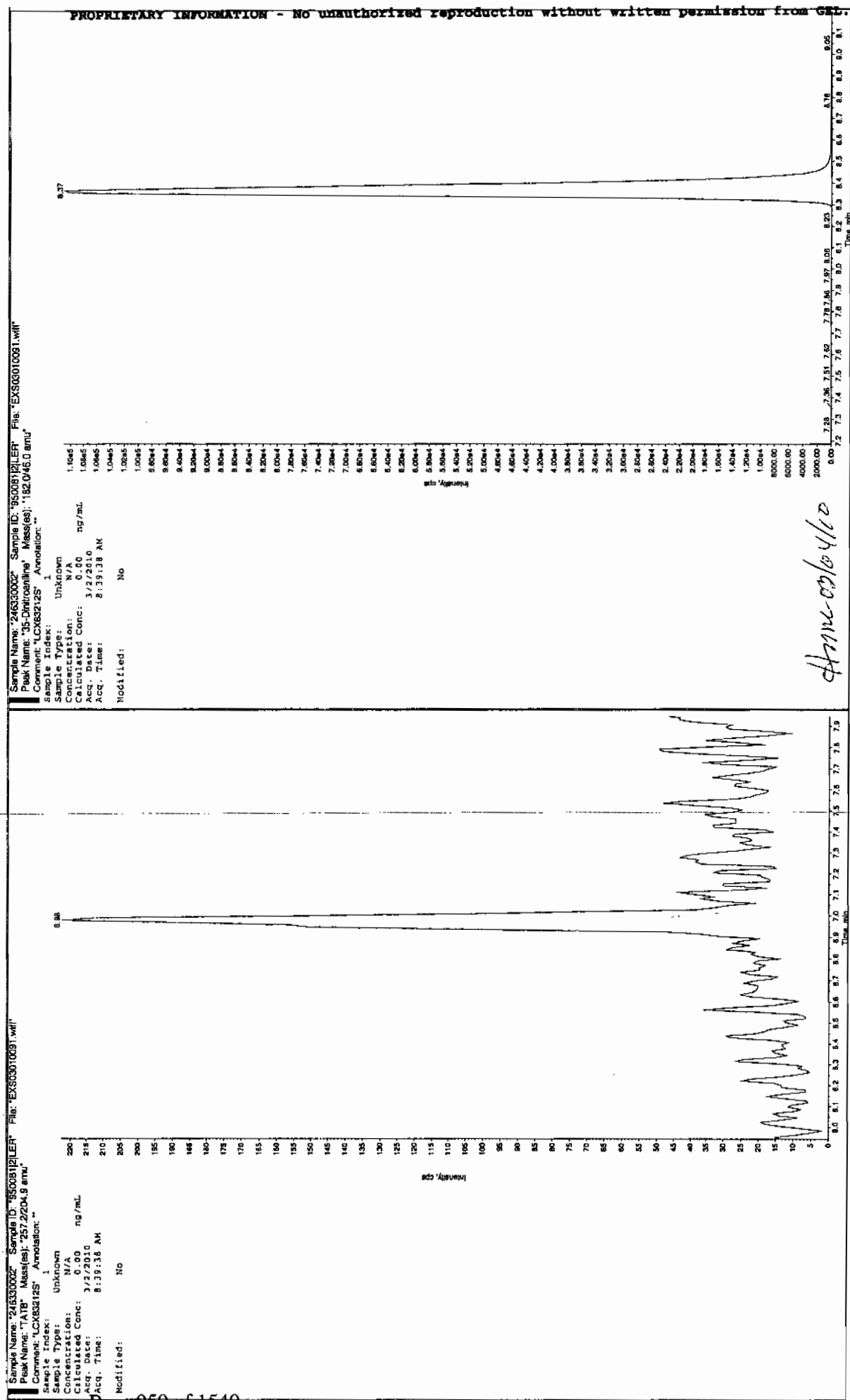
Units: ug/kg

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 =

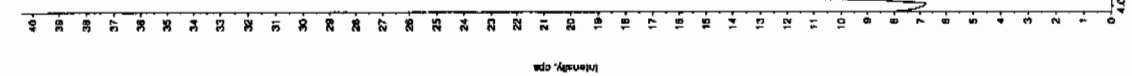
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Jan 31/3/10



Sample Name: "246330002" Sample ID: "95008121ER" File: "EXS03010091.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

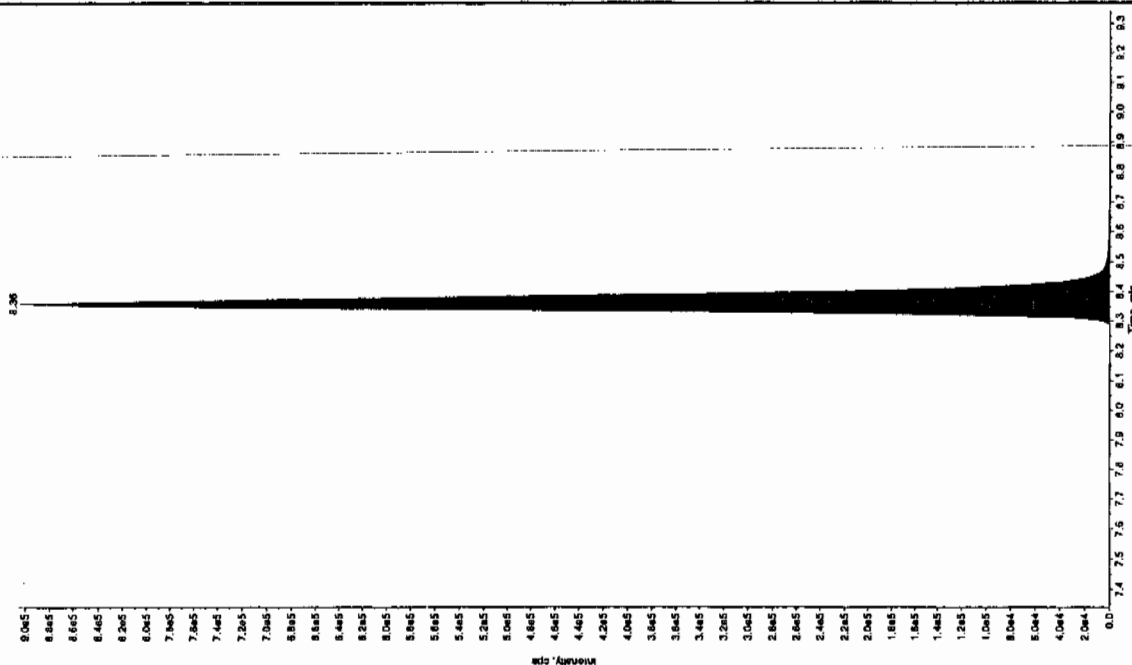
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/27/2010
 Acq. Time: 8:39:38 AM
 Modified: No



Sample Name: "34-Dinitrofluorene" Sample ID: "95008121ER" File: "EXS03010091.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.171.9 amu"
 Comment: "LCX83212S" Annotation: ""

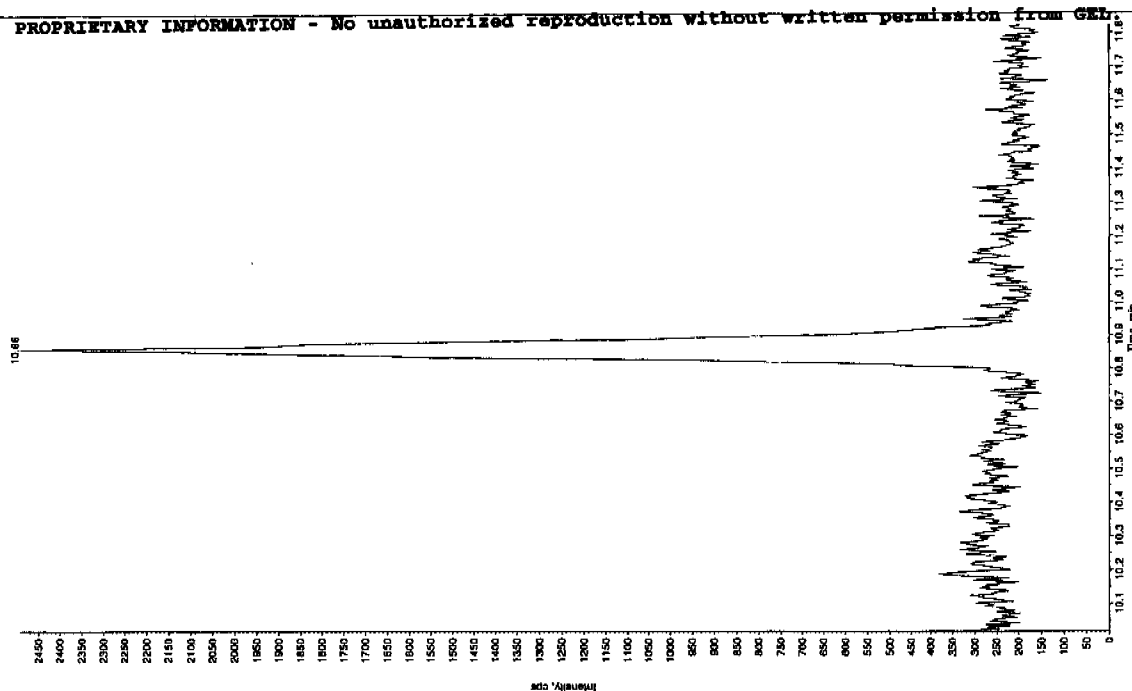
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 257. ng/mL
 Acq. Date: 3/27/2010
 Acq. Time: 8:39:38 AM
 Modified: No

Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 RT Min Width: 3.15 sec
 Expected RT: 6.14 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.36 min
 Area: 3.12e+005 counts
 Height: 904944.397 cps
 Start Time: 8.17 min
 End Time: 8.70 min



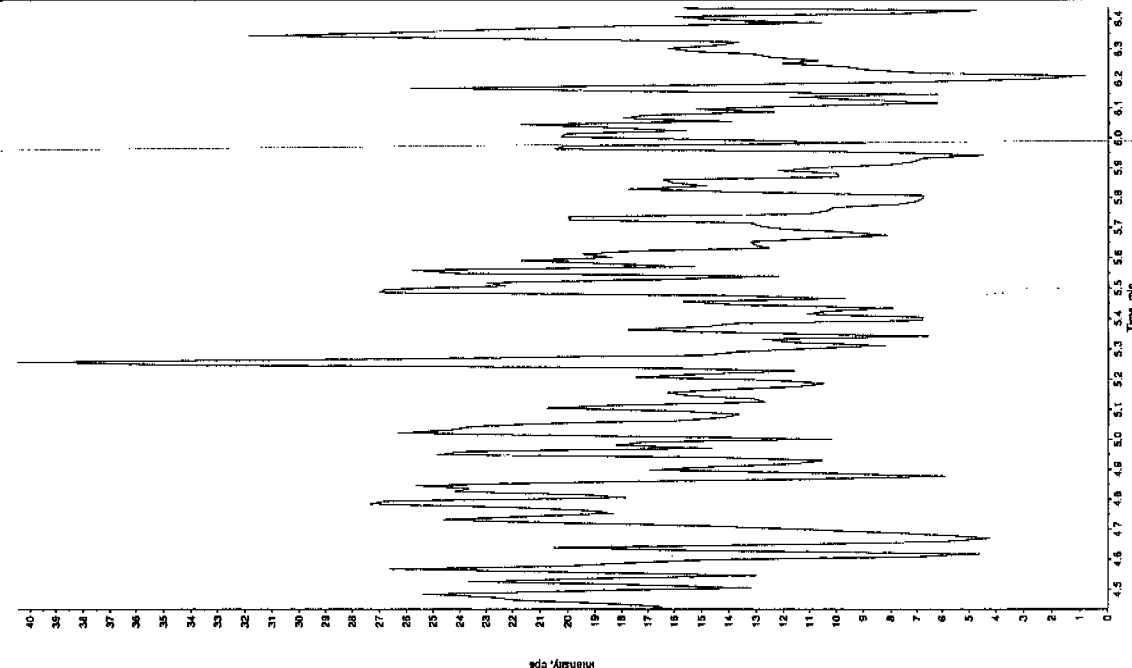
Sample Name: "24633002" Sample ID: "95008121.ER" File: "EXS03010091.wif"
 Peak Name: "tris(o-crysy) phosphate" Mass(es): "358.151.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 8:39:38 AM
 Modified: No



Sample Name: "24633002" Sample ID: "95008121.ER" File: "EXS03010091.wif"
 Peak Name: "24-Diamino-6-nitrocholine" Mass(es): "156.046.0 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: 8:39:38 AM
 Modified: No



*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: RE15-10-8305

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330003

Sample Amount 2

Moisture: 38.4

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312094.wiff

Date Analyzed: 14-MAR-10 00:55

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

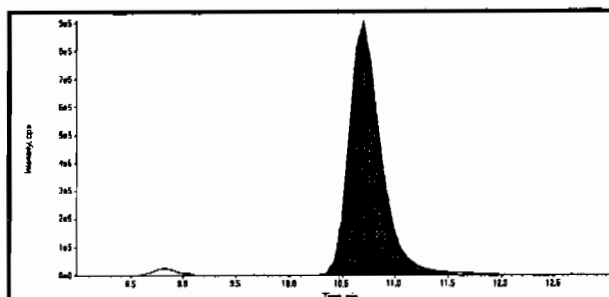
*Concentration =

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

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

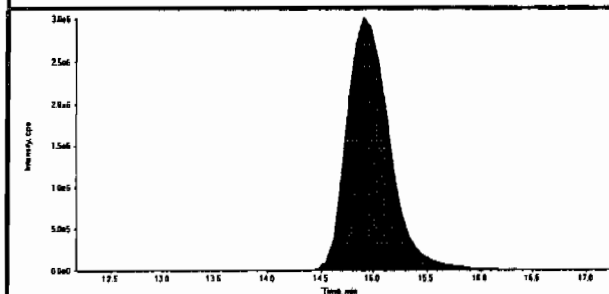
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312094.wiff	Acquisition Date	3/14/2010 12:55:09 AM
Sample Name	246330003	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



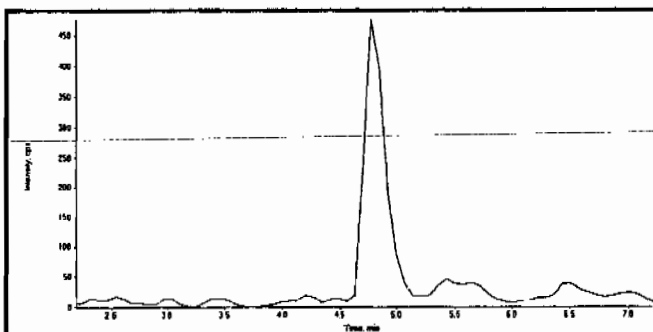
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.70
Area Counts:	19300000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

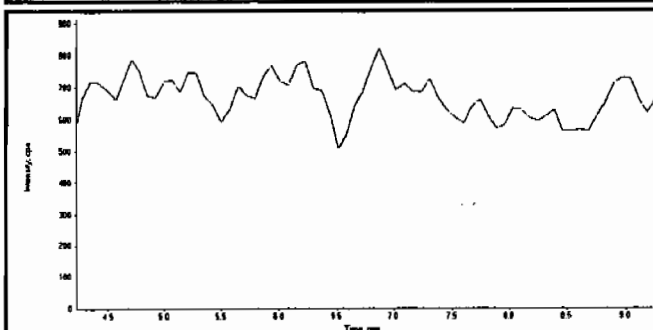


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	87200000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0:00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

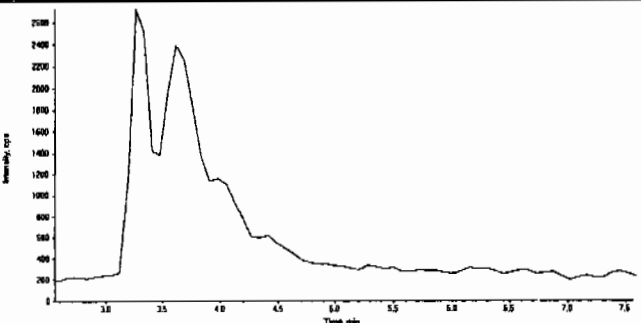
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3/24/10

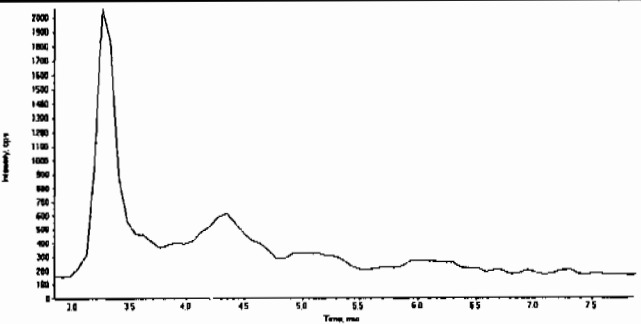
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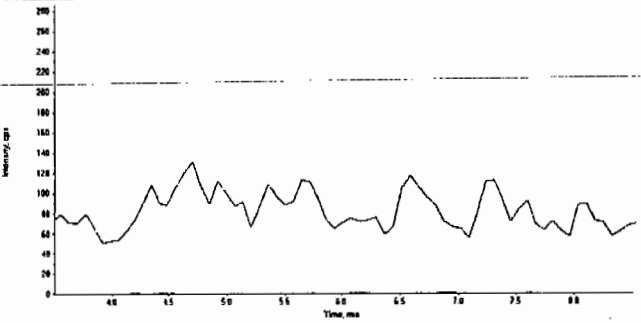
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

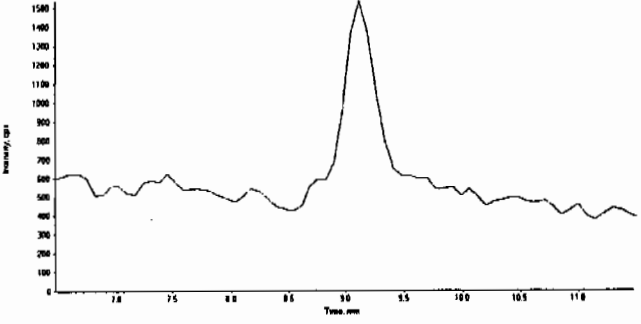
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LCMSMS#3

Data File	EXP0312094.wiff	Acquisition Date	3/14/2010 12:55:09 AM
Sample Name	246330003	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312094.wiff	Acquisition Date	3/14/2010 12:55:09 AM
Sample Name	246330003	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

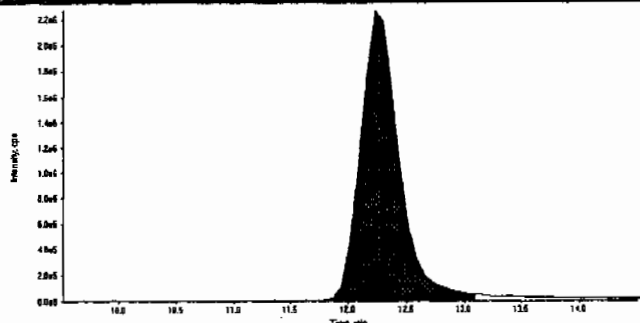
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

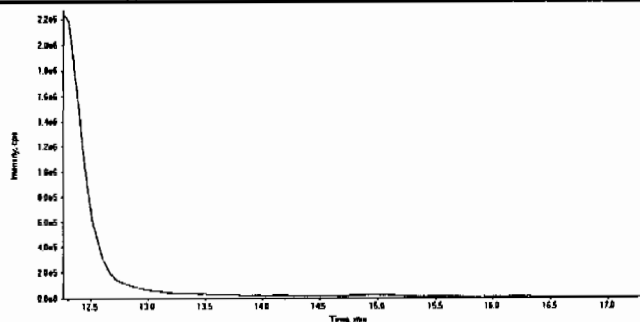
	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

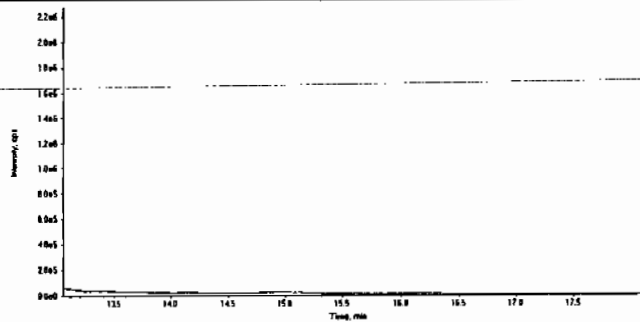
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

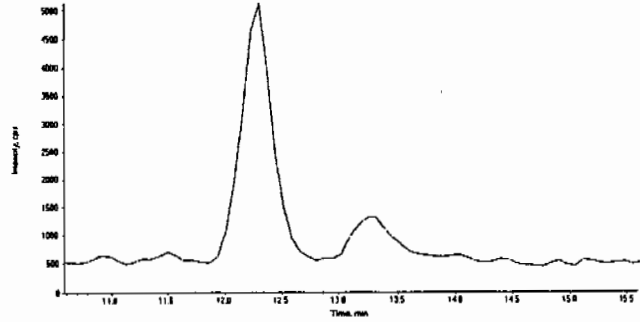
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LCMSMS#3

Data File	EXP0312094.wiff	Acquisition Date	3/14/2010 12:55:09 AM
Sample Name	246330003	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	5.19e+007
	Manual Modification	No
	Amount:	242. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

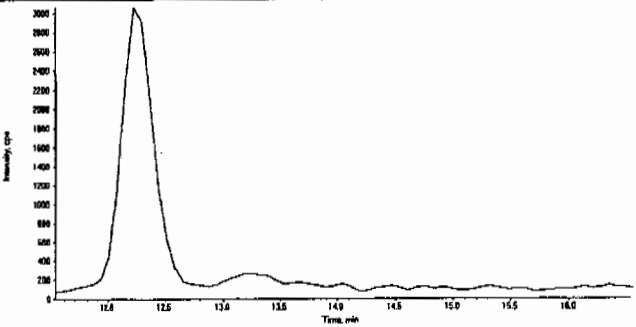
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

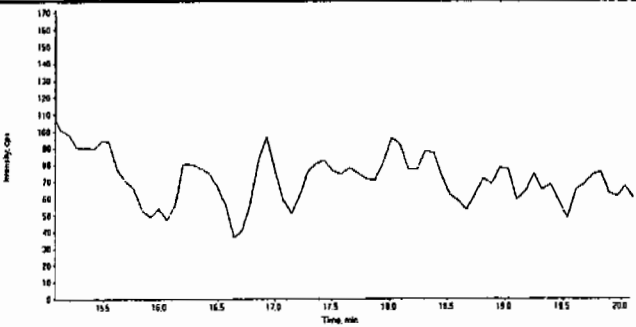
	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

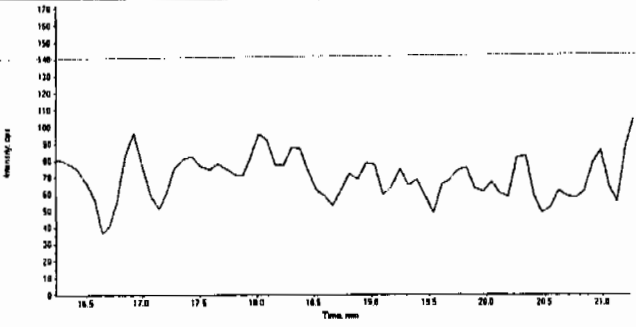
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

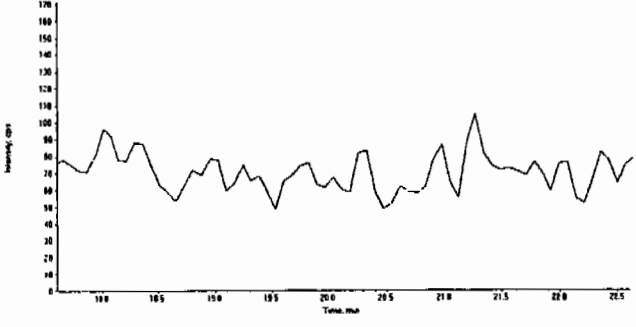
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312094.wiff	Acquisition Date	3/14/2010 12:55:09 AM
Sample Name	246330003	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312094.wiff	Acquisition Date	3/14/2010 12:55:09 AM
Sample Name	246330003	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	19.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8305

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330003

Sample Amount 2

Moisture: 38.4

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010094.wiff

Date Analyzed: 02-MAR-10 09:26

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

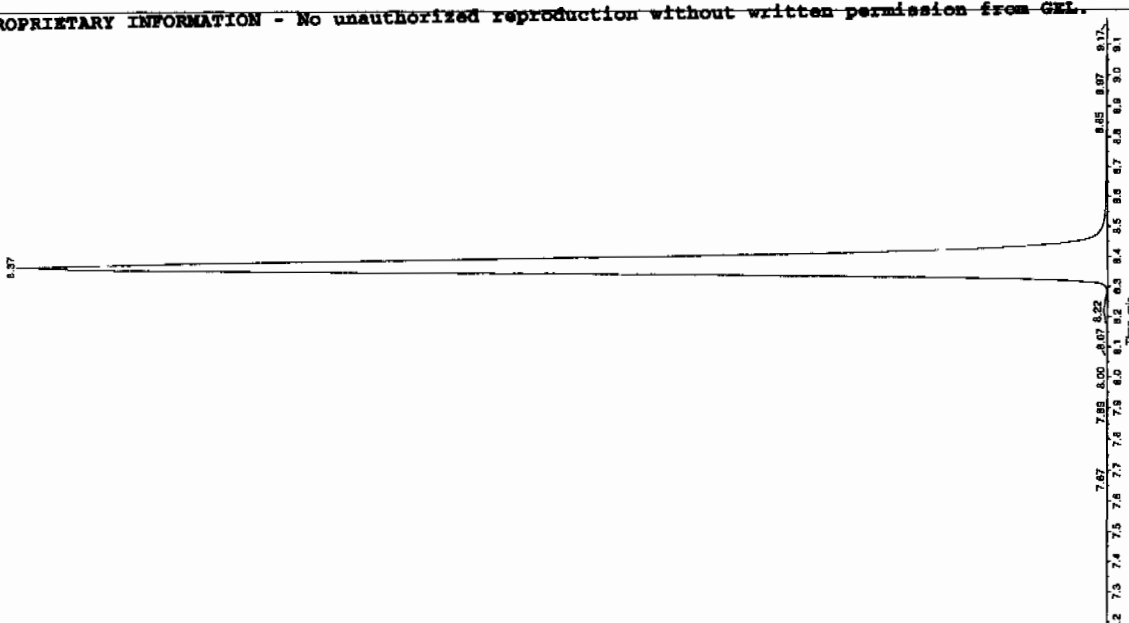
for 3/3/10

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Sample Name: "24330003" Sample ID: "85008121L1P" File: "EX503010094.wif"
Peak Name: "35-Dinitroamine" Mass(es): "182.046.0 amu"
Comment: "LCX03212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Calculated Conc: 3/2/2010
Acq. Date: 9:26:51 AM
Acq. Time: 9:26:51 AM
Modified: No

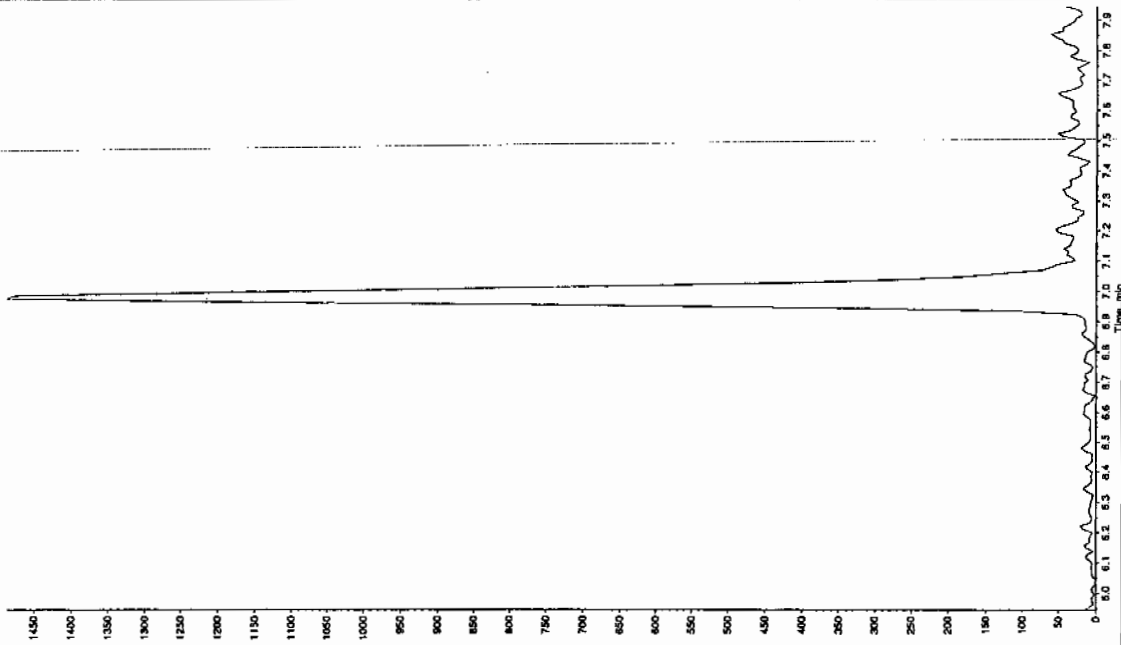
Intensity, cps



Sample Name: "24330003" Sample ID: "85008121L1P" File: "EX503010094.wif"
Peak Name: "35-Dinitroamine" Mass(es): "182.046.0 amu"
Comment: "LCX03212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Calculated Conc: 3/2/2010
Acq. Date: 9:26:51 AM
Acq. Time: 9:26:51 AM
Modified: No

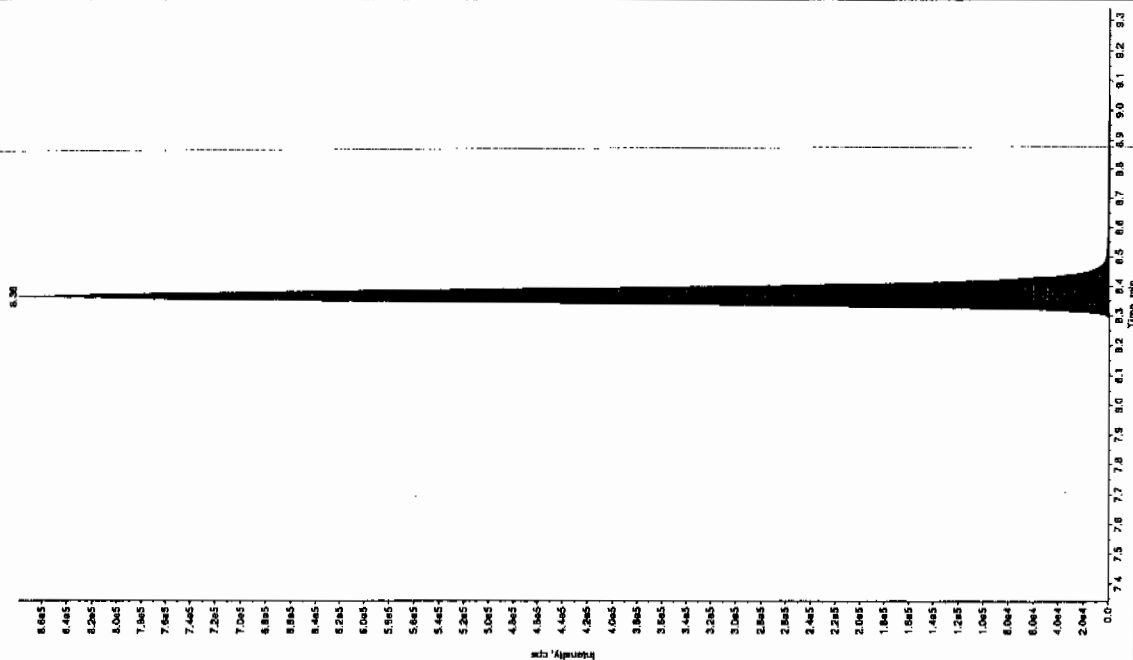
Intensity, cps



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "246330003" Sample ID: "95008121ER" File: "EXS03010084.wif"
 Peak Name: "26-Diethyl-4-nitrofluorene" Mass(es): "186.046.0 amu"
 Comment: "LCX832125" Annotation: ""

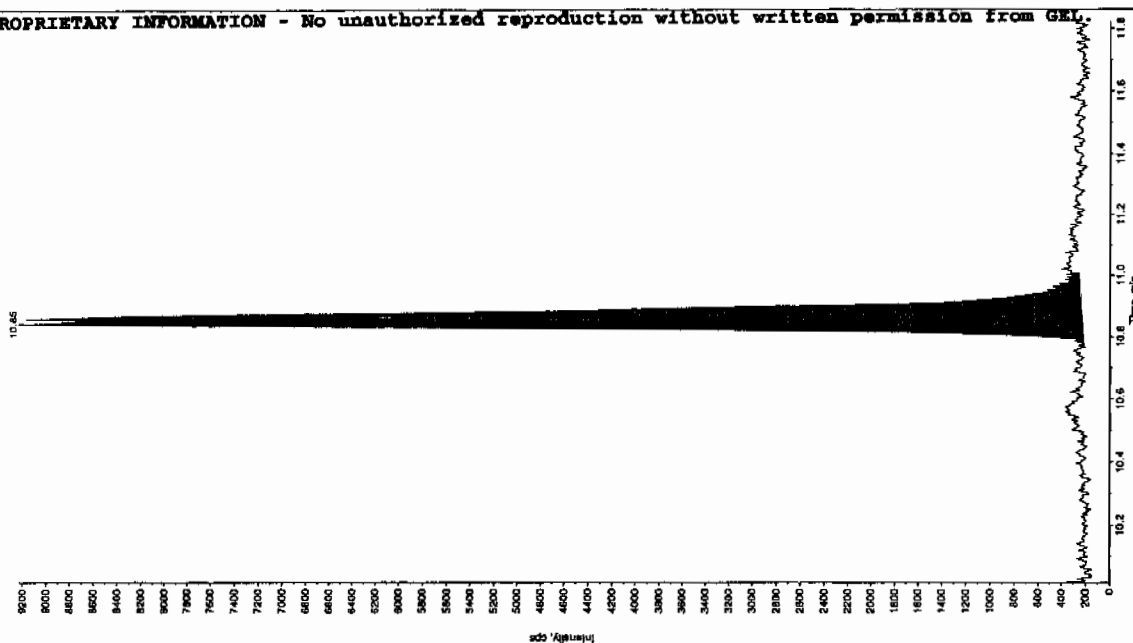
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 0.00
 Acq. Date: 3/2/2010
 Acq. Time: 9:26:51 AM
 Modified: No



Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3.0 points
 RT Window: 15.0 sec
 Expected RT: 8.34 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.36 min
 Area: 3.01e+006 counts
 Height: 878705.505 cps
 Start Time: 8.25 min
 End Time: 8.70 min

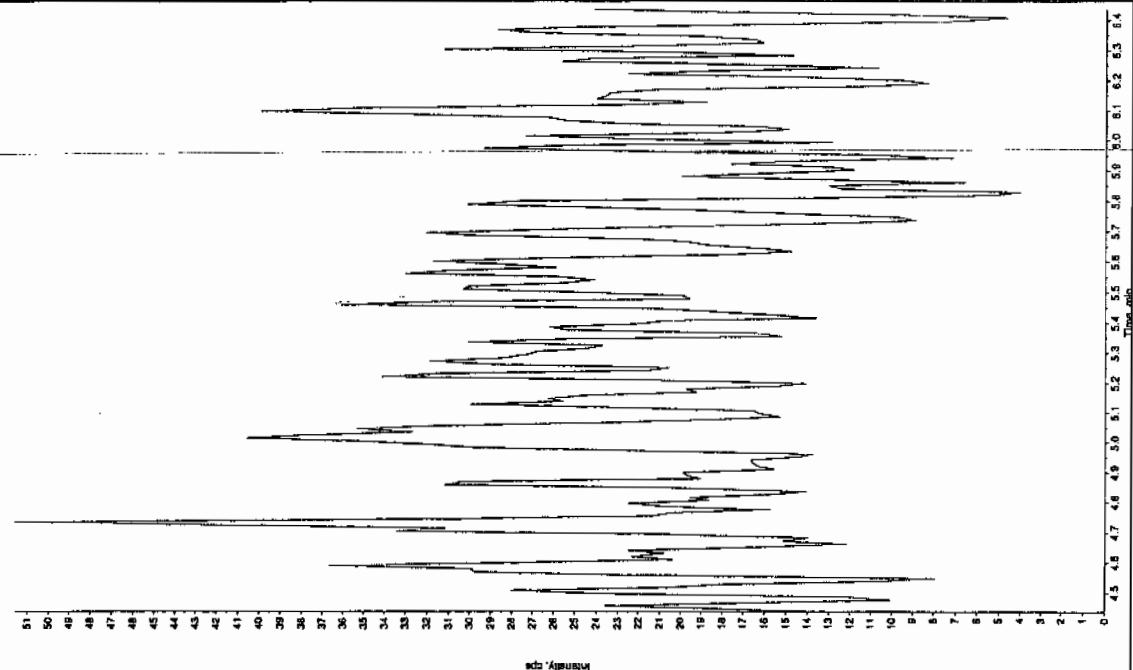
Sample Name: "24533003" Sample ID: "95008121ER" File: "EX503010094.wif"
 Peak Name: "tris(o-cresyl) phosphite" Mass(es): "389.1/91.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 9:26:51 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: 3.57e+004 counts
 Height: 9000.117 cps
 Start Time: 10.8 min
 End Time: 11.0 min



Sample Name: "24533003" Sample ID: "95008121ER" File: "EX503010094.wif"
 Peak Name: "24-Dinitro-6-nitrofluorene" Mass(es): "166.0/46.0 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: 9:26:51 AM
 Modified: No



High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8306

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330004

Sample Amount 2

Moisture: 21.2

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312095.wiff

Date Analyzed: 14-MAR-10 01:21

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

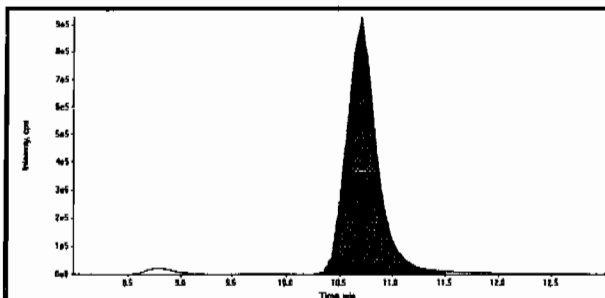
*Concentration =

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

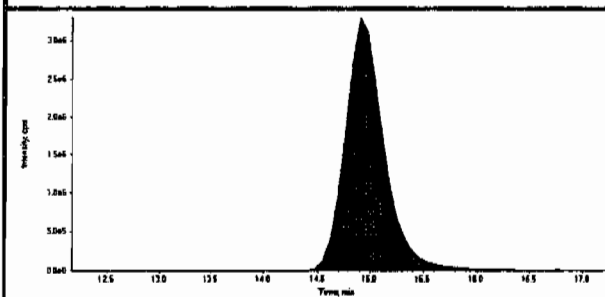
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LCMSMS#3

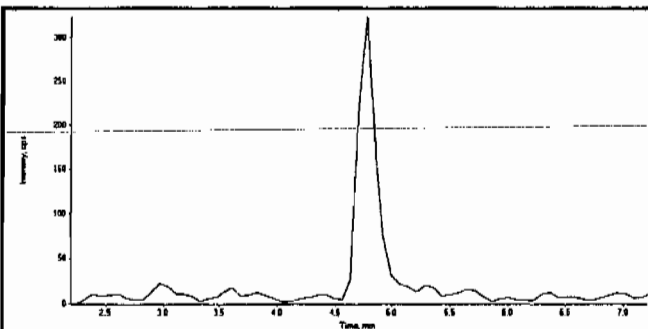
Data File	EXP0312095.wiff	Acquisition Date	3/14/2010 1:21:35 AM
Sample Name	246330004	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



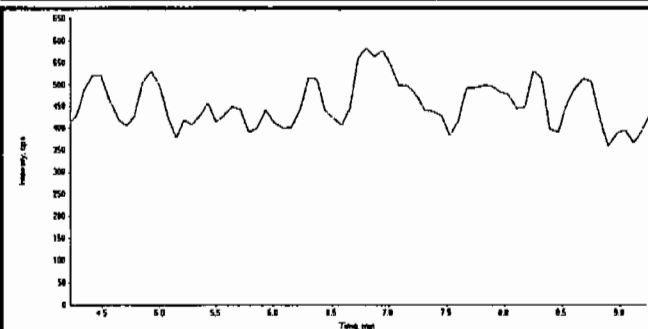
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.70
Area Counts:	18800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	86400000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

LER
3/24/10

HMC
03/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312095.wiff	Acquisition Date	3/14/2010 1:21:35 AM
Sample Name	246330004	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312095.wiff	Acquisition Date	3/14/2010 1:21:35 AM
Sample Name	246330004	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

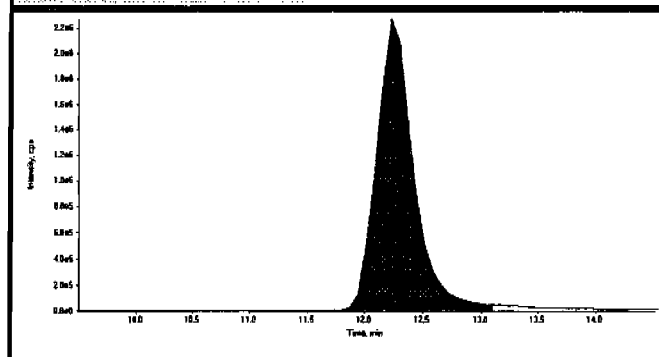
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

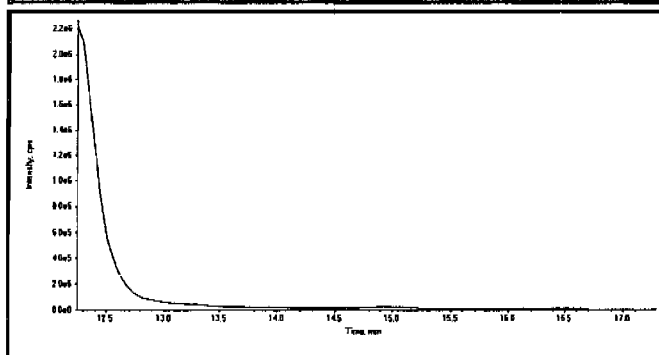
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LCMSMS#3

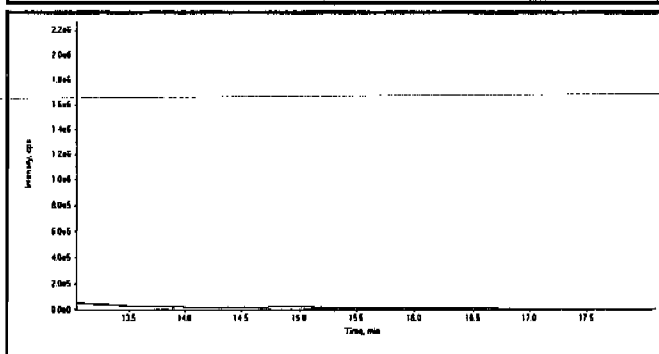
Data File	EXP0312095.wiff	Acquisition Date	3/14/2010 1:21:35 AM
Sample Name	246330004	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



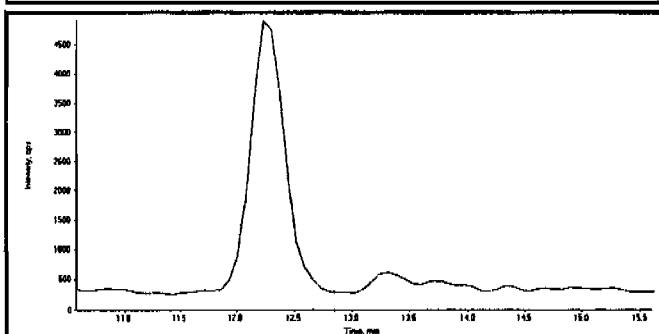
Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
Expected RT:	12.0
Actual RT:	12.2
Area Counts:	5.02e+007
Manual Modification	No
Amount:	236. (ng/mL)
% Accuracy:	N/A



Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
Expected RT:	14.8
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
Expected RT:	15.6
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

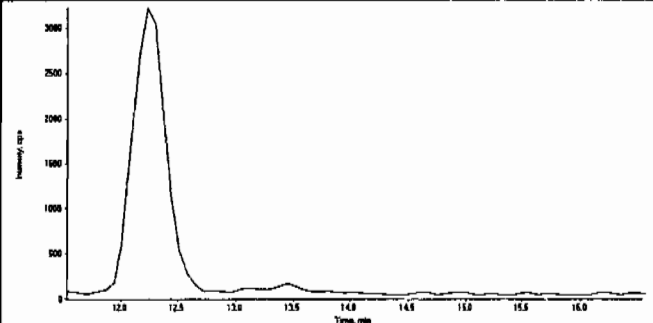


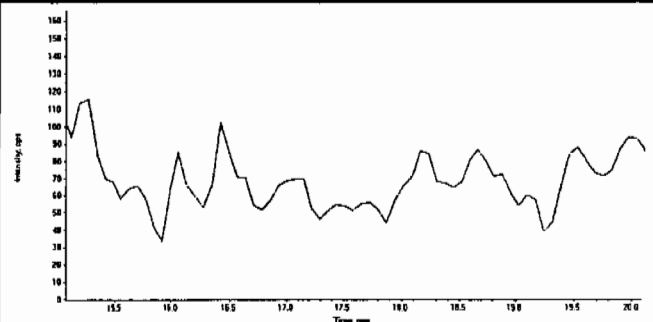
Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
Expected RT:	13.1
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

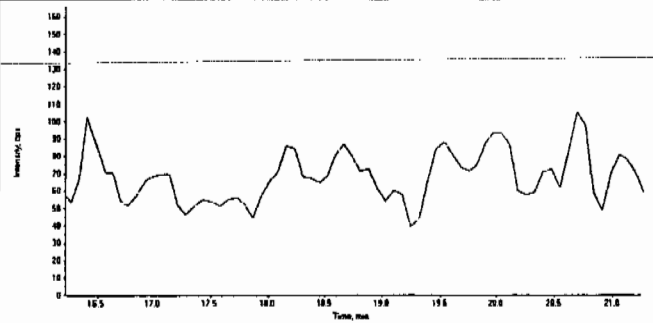
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GEL SOP GL-OA-E-056, Method 8321A-Modified

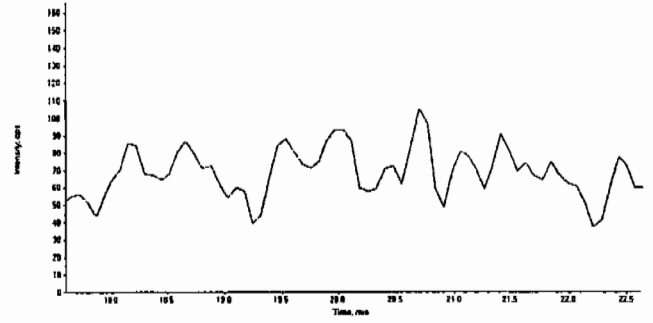
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312095.wiff	Acquisition Date	3/14/2010 1:21:35 AM
Sample Name	246330004	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

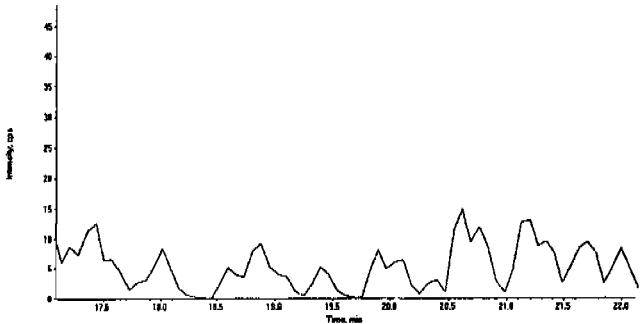
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312095.wiff	Acquisition Date	3/14/2010 1:21:35 AM
Sample Name	246330004	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8306

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330004

Sample Amount 2

Moisture: 21.2

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010095.wiff

Date Analyzed: 02-MAR-10 09:42

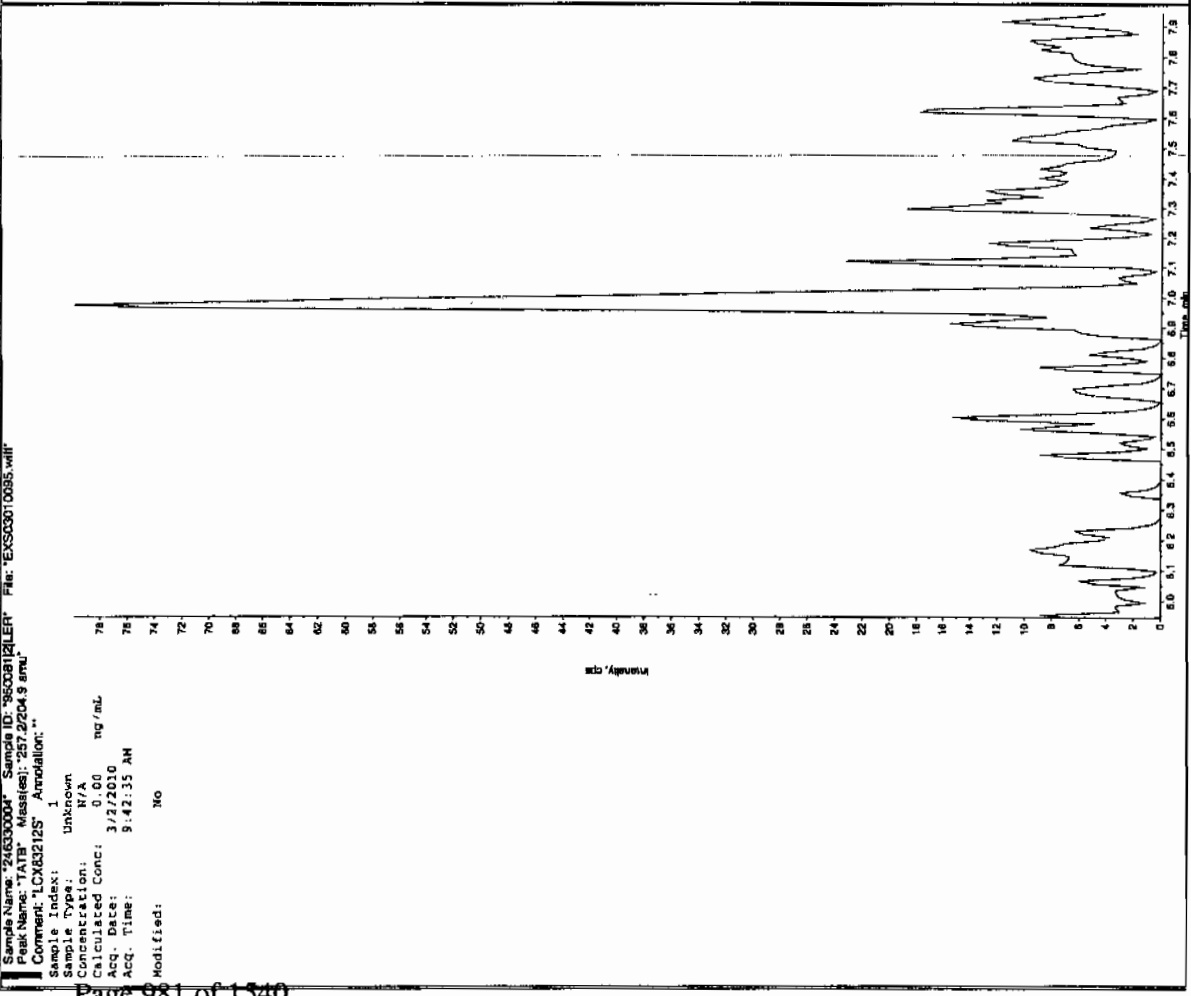
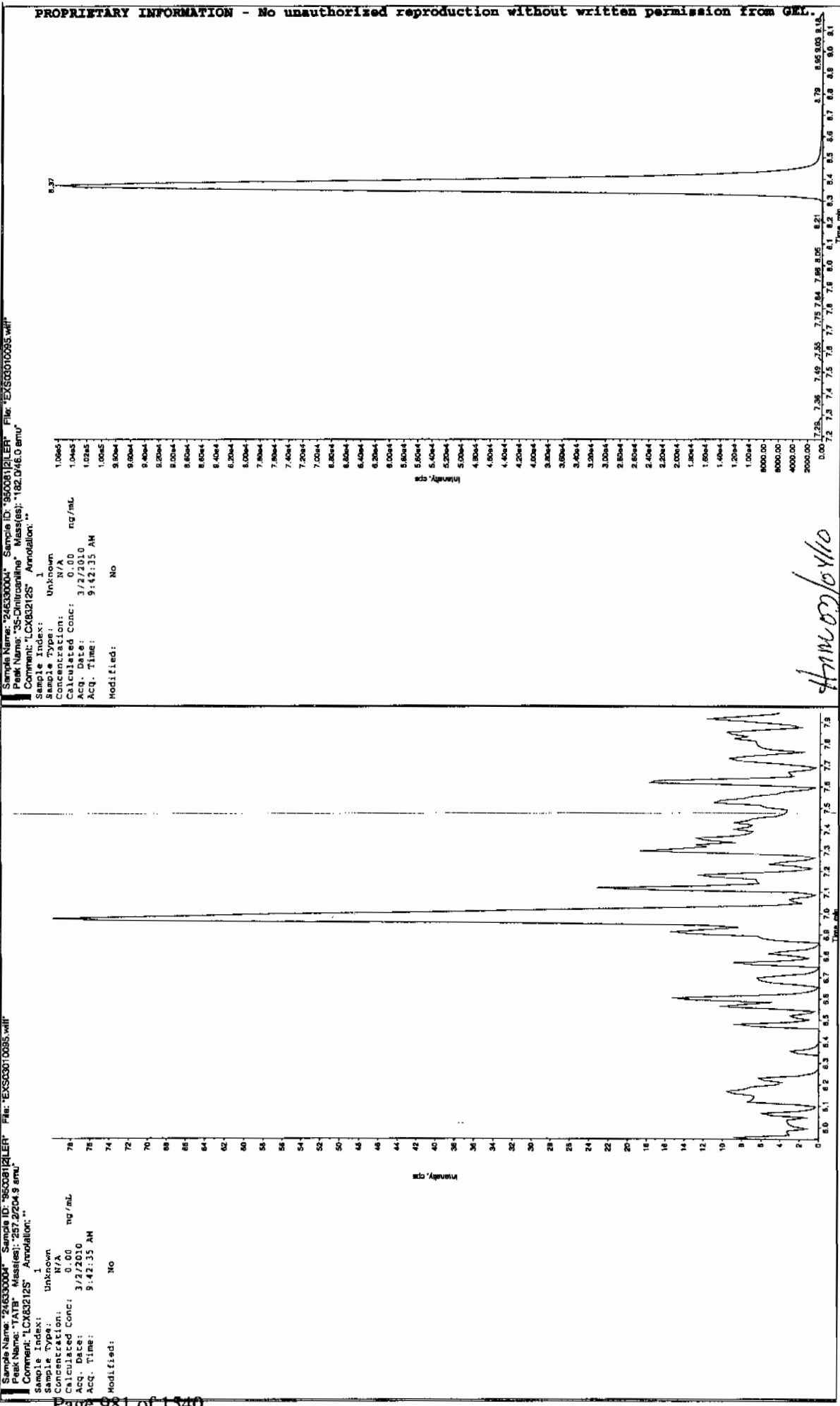
Units: ug/kg

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

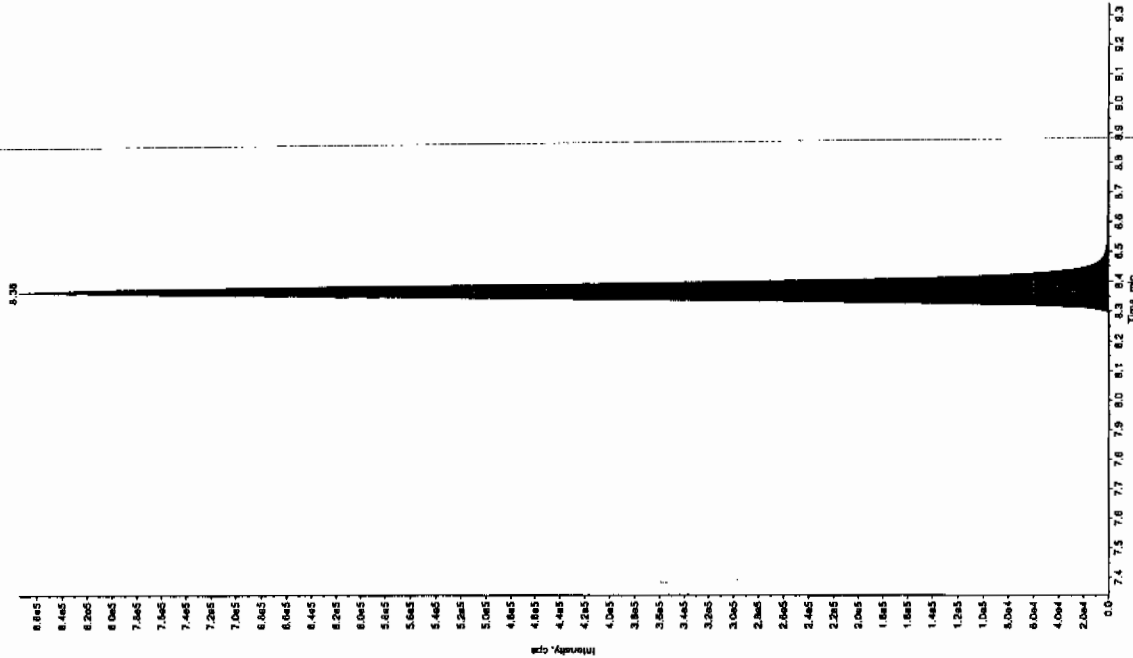
01/12/10
MAP



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: 24630004 Sample ID: 95008120157 File: EX500010085.wif
 Peak Name: 78-Dinitro-4-nitrobenzoic Acid (m/z 166.0463 amu)
 Comment: LCX832125 Annotation: 1

Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 9:42:35 AM
 Modified: No

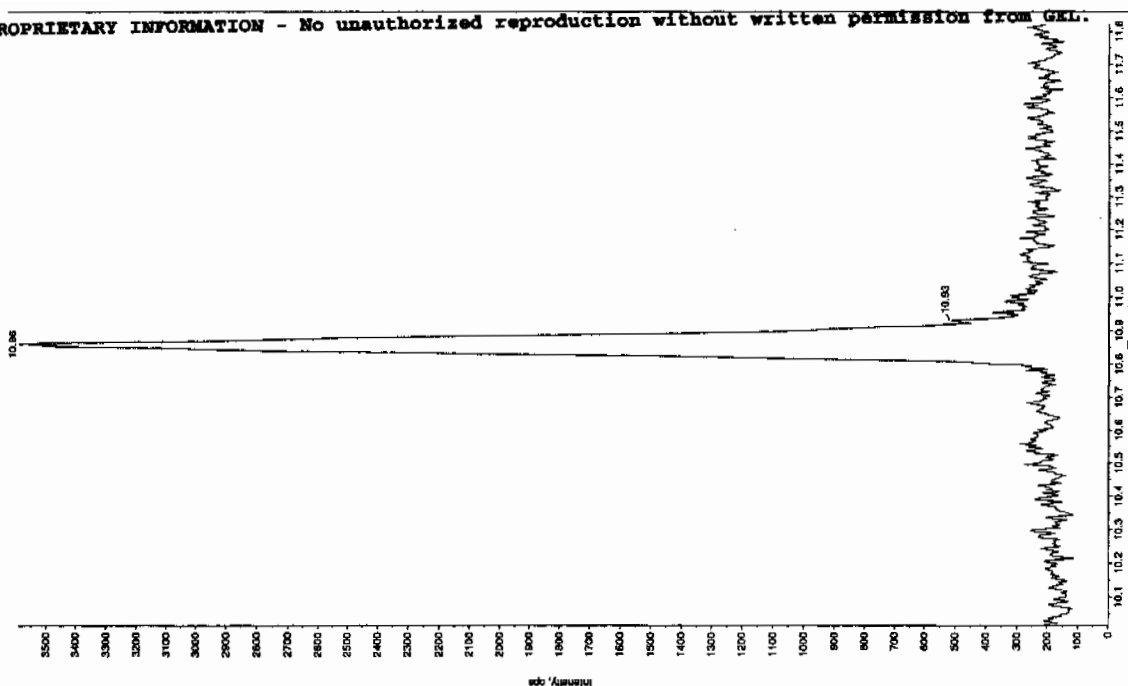


Sample Name: 24630004 Sample ID: 95008120157 File: EX500010085.wif
 Peak Name: 78-Dinitro-4-nitrobenzoic Acid (m/z 166.0463 amu)
 Comment: LCX832125 Annotation: 1

Sample Type: Unknown
 Concentration: 247. ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 9:42:35 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: 8.36 min
 Area: 3.01e+006 counts
 Height: 875212.891 cps
 Start Time: 8.25 min
 End Time: 8.70 min

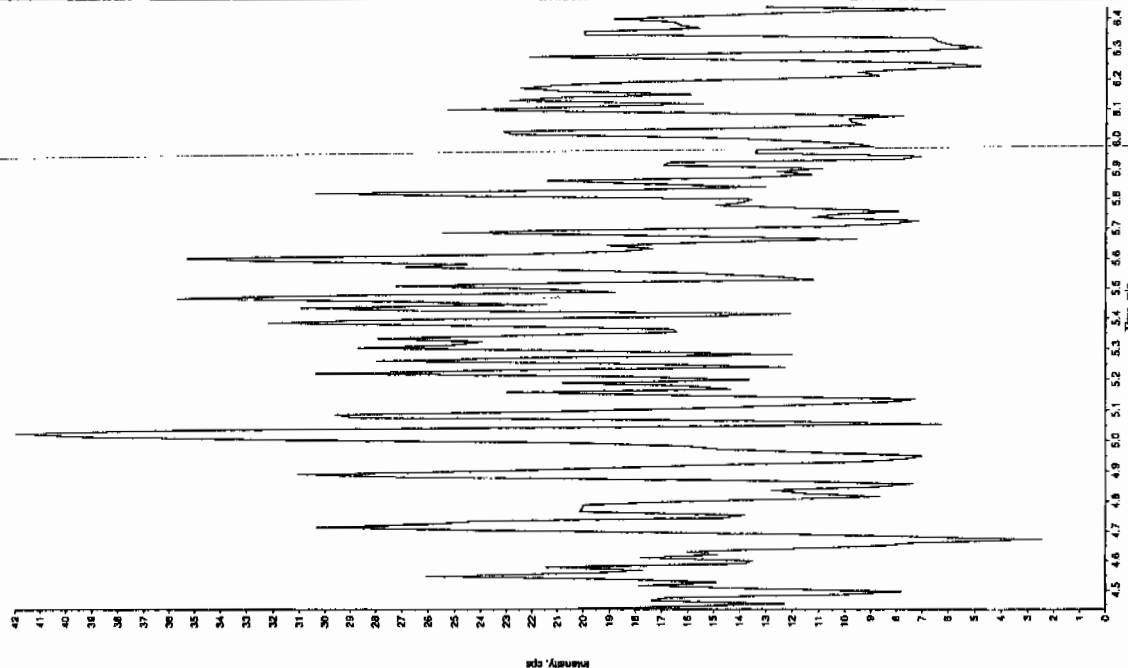
Sample Name: "246330004" Sample ID: "95009121.ER" File: "EX50010095.wif"
 Peak Name: "bis(2-oxo-1-phenylethyl) phosphine" Mass(es): 369.191.0 amu
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 9:42:35 AM
 Modified: No



Sample Name: "246330004" Sample ID: "95009121.ER" File: "EX50010095.wif"
 Peak Name: "bis(2-oxo-1-phenylethyl) phosphine" Mass(es): 369.191.0 amu
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 9:42:35 AM
 Modified: No



*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: RE15-10-8307

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330005

Sample Amount 2

Moisture: 14.4

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312096.wiff

Date Analyzed: 14-MAR-10 01:48

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

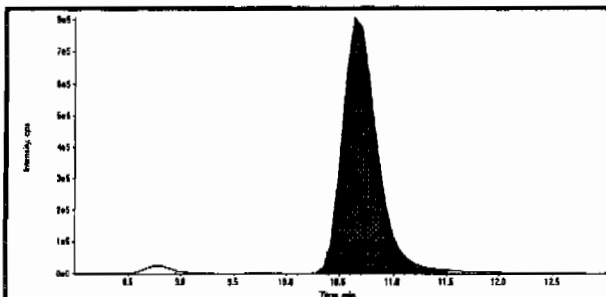
*Concentration =

Instrument Value	X	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		Sample Amount		

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

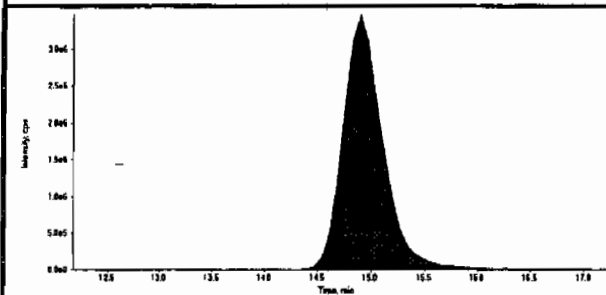
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312096.wiff	Acquisition Date	3/14/2010 1:48:01 AM
Sample Name	246330005	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



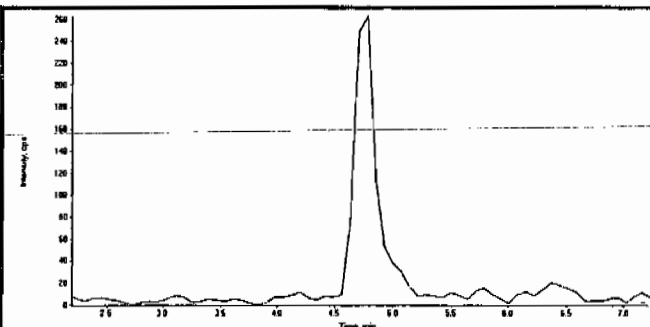
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	18100000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

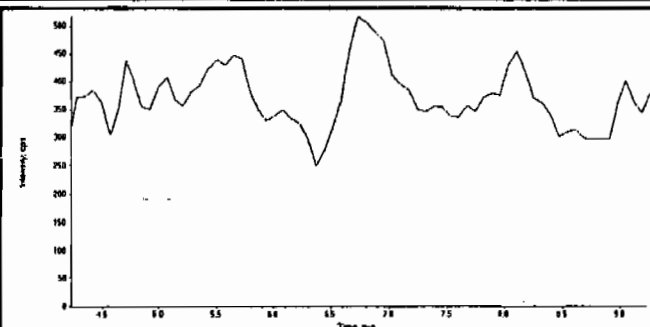


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	89600000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



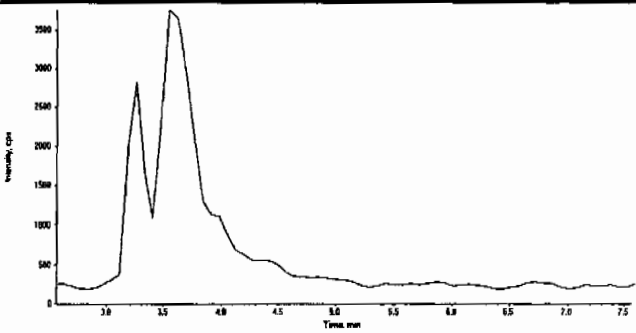
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

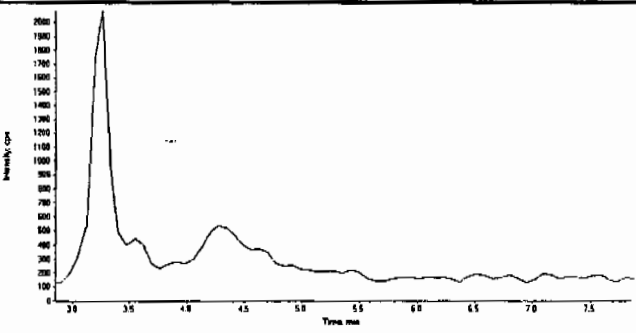
Handwritten signatures and date:
3/24/10
HMX
03/24/10

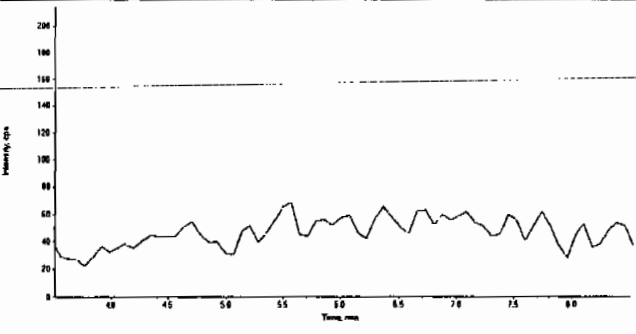
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

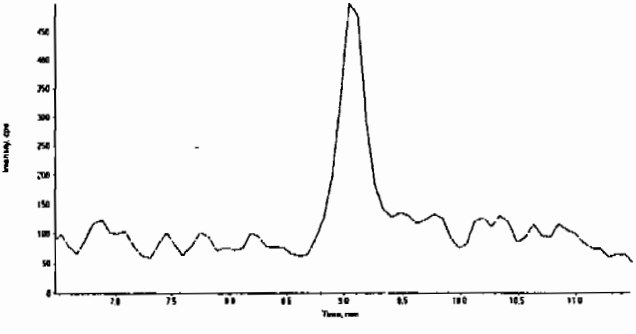
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312096.wiff	Acquisition Date	3/14/2010 1:48:01 AM
Sample Name	246330005	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312096.wiff	Acquisition Date	3/14/2010 1:48:01 AM
Sample Name	246330005	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312096.wiff	Acquisition Date	3/14/2010 1:48:01 AM
Sample Name	246330005	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	5.15e+007
	Manual Modification	No
	Amount:	233. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

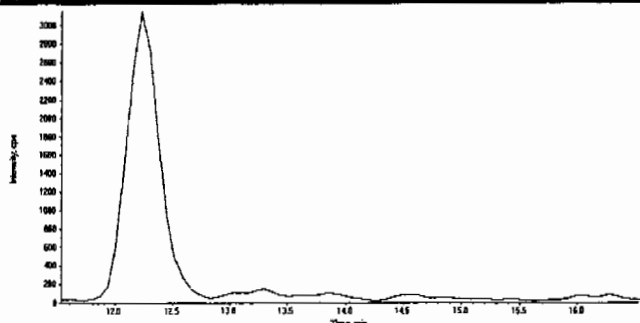
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

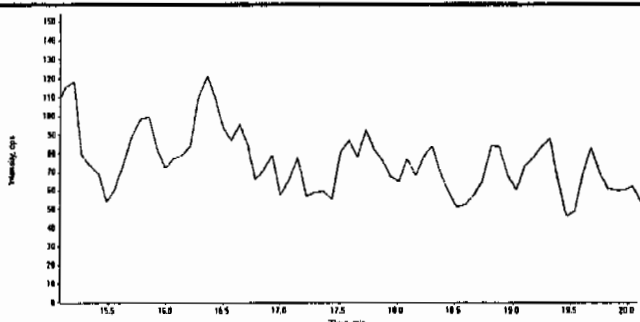
	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

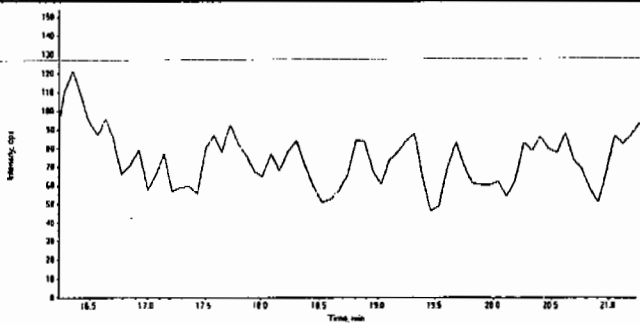
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

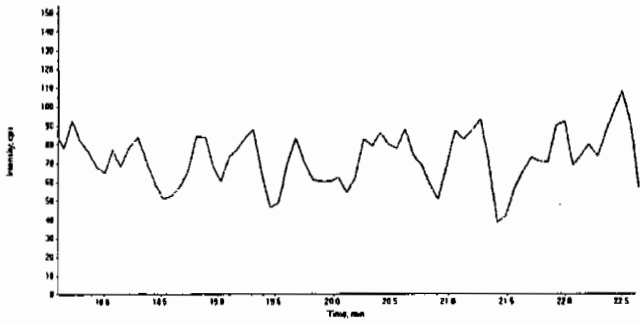
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312096.wiff	Acquisition Date	3/14/2010 1:48:01 AM
Sample Name	246330005	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

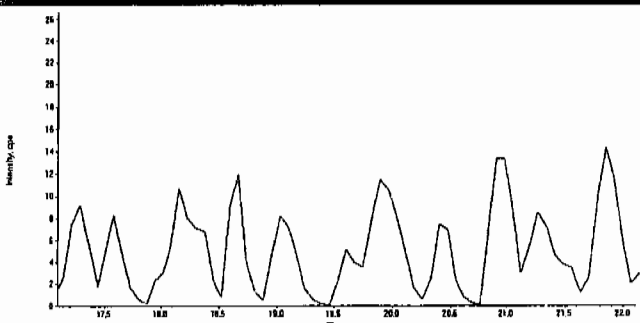
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312096.wiff	Acquisition Date	3/14/2010 1:48:01 AM
Sample Name	246330005	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8307

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330005

Sample Amount 2

Moisture: 14.4

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010096.wiff

Date Analyzed: 02-MAR-10 09:58

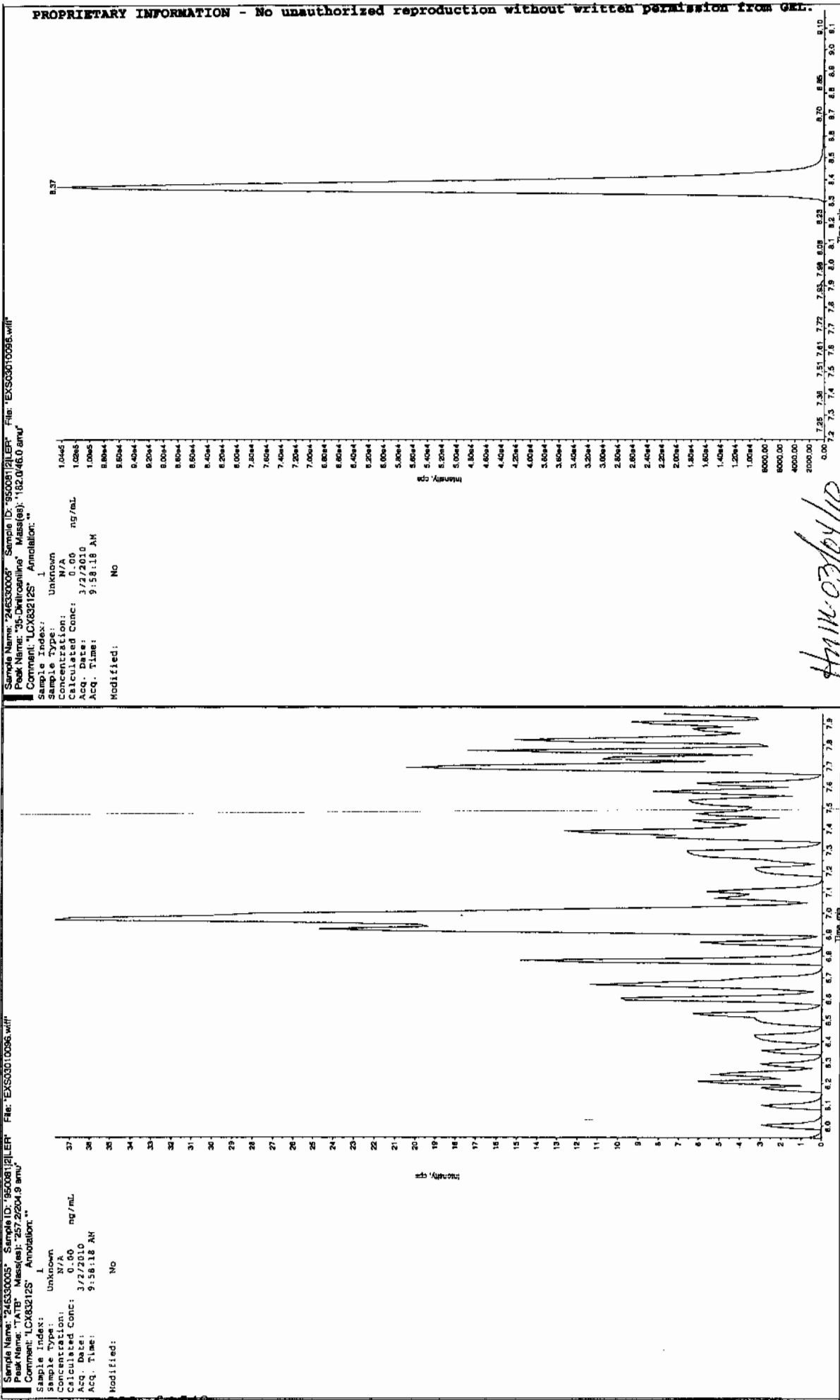
Units: ug/kg

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

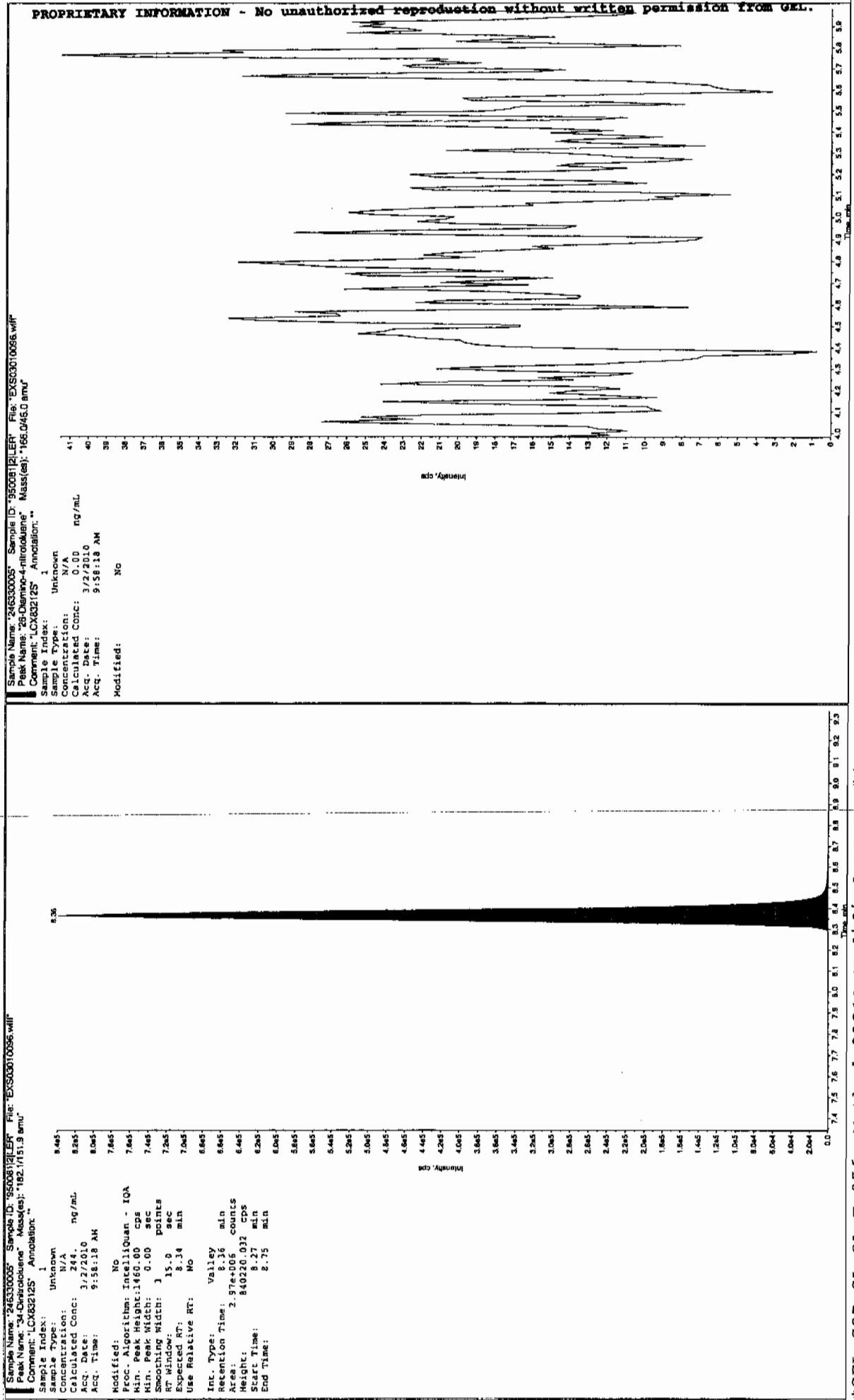
*Concentration =

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

01/13/10
JW-23/10



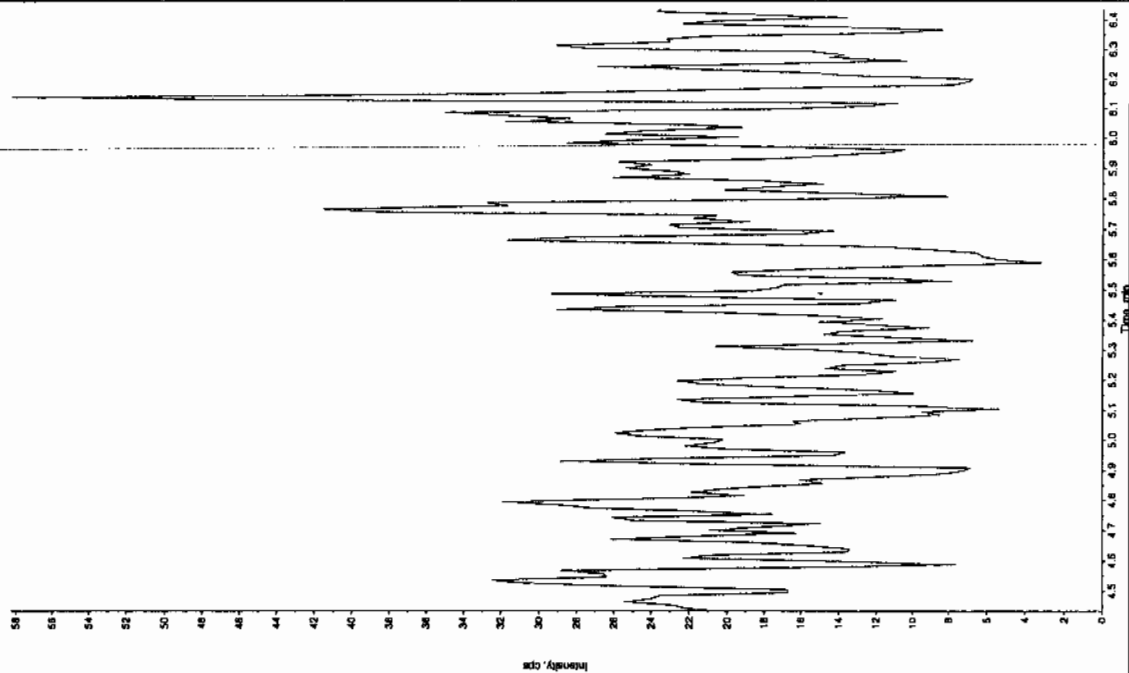
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



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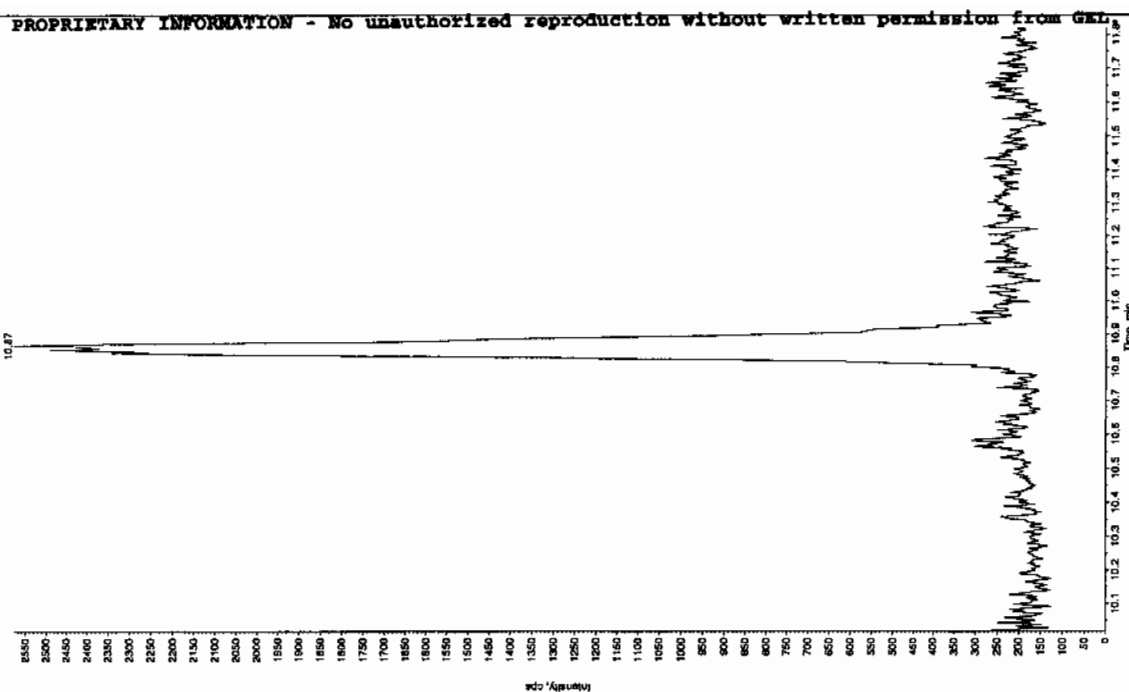
Sample Name: "246330005" Sample ID: "95008121ER" File: "EXS03010096.wif"
Peak Name: "24-Diamino-5-nitroindole" Mass(es): "166.046.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.60 ng/mL
Acq. Date: 3/2/2019
Acq. Time: 9:58:18 AM
Modified: No



Sample Name: "246330005" Sample ID: "95008121ER" File: "EXS03010096.wif"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "368.161.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 3/2/2019
Acq. Date: 9:58:18 AM
Acq. Time: 9:58:18 AM
Modified: No



High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8309

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330006

Sample Amount 2

Moisture: 10.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312097.wiff

Date Analyzed: 14-MAR-10 03:14

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

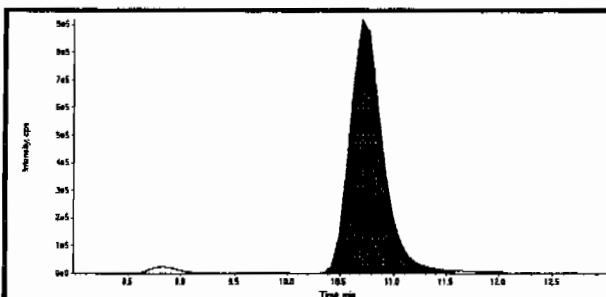
*Concentration =

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

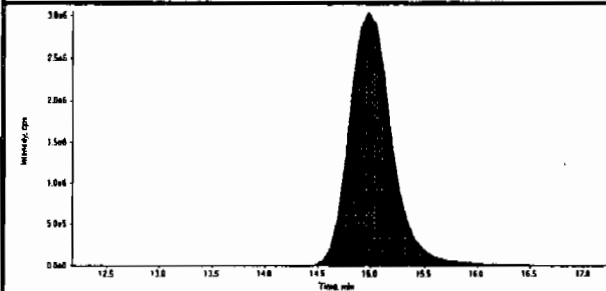
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

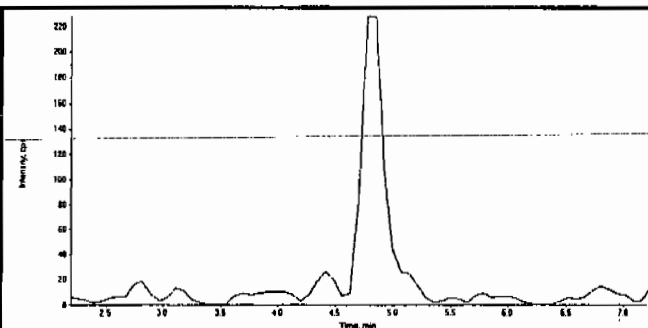
Data File	EXP0312097.wiff	Acquisition Date	3/14/2010 3:14:34 AM
Sample Name	246330006	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



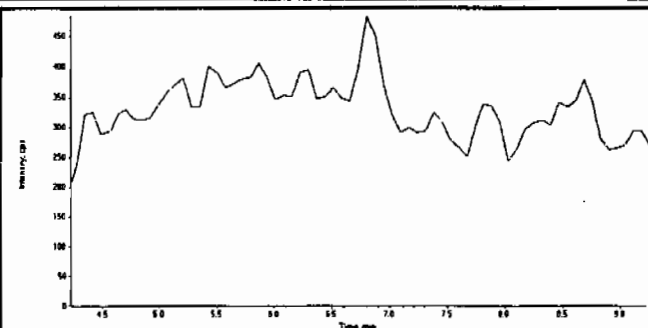
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.70
Area Counts:	19700000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	15.00
Area Counts:	85600000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

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3/24/10

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03/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312097.wiff	Acquisition Date	3/14/2010 3:14:34 AM
Sample Name	246330006	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

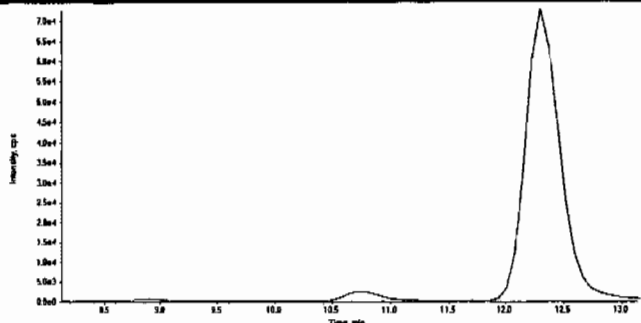
	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

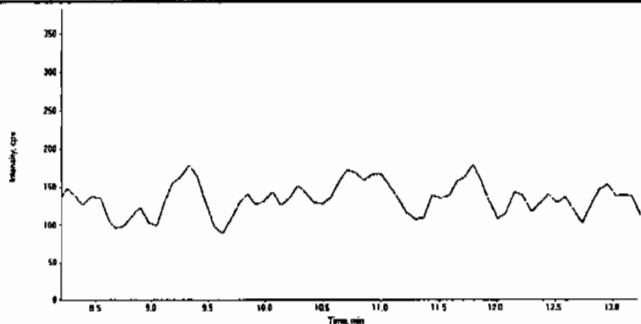
	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

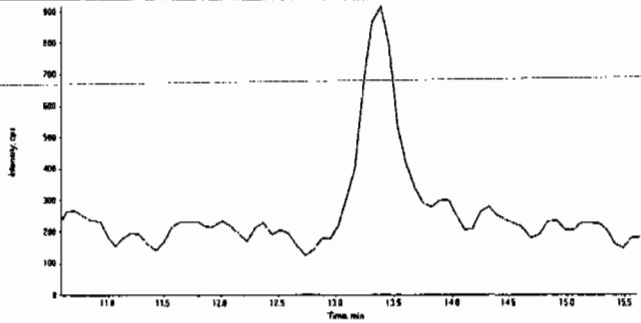
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

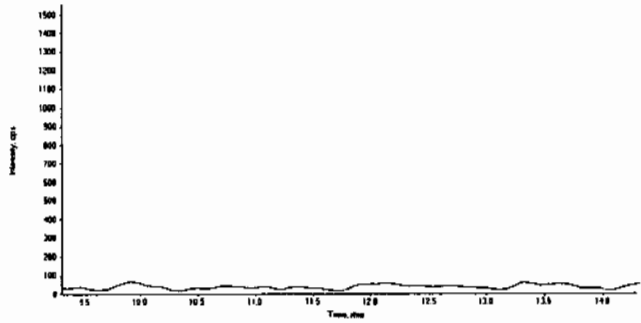
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312097.wiff	Acquisition Date	3/14/2010 3:14:34 AM
Sample Name	246330006	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312097.wiff	Acquisition Date	3/14/2010 3:14:34 AM
Sample Name	246330006	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.3
	Area Counts:	5.26e+007
	Manual Modification	No
	Amount:	249. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312097.wiff	Acquisition Date	3/14/2010 3:14:34 AM
Sample Name	246330006	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

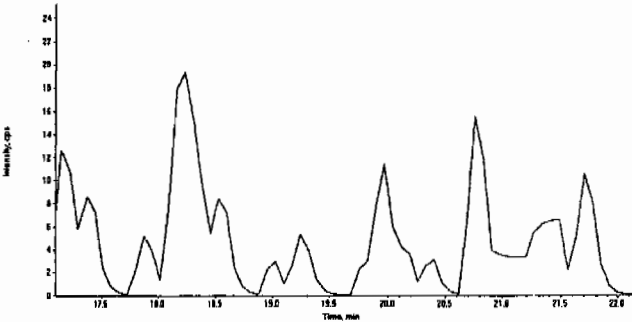
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312097.wiff	Acquisition Date	3/14/2010 3:14:34 AM
Sample Name	246330006	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8309

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330006

Sample Amount 2

Moisture: 10.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010097.wiff

Date Analyzed: 02-MAR-10 10:14

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

Run 3/8/10

Sample Name: "246330006" Sample ID: "95008121ER" File: "EX03010097.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

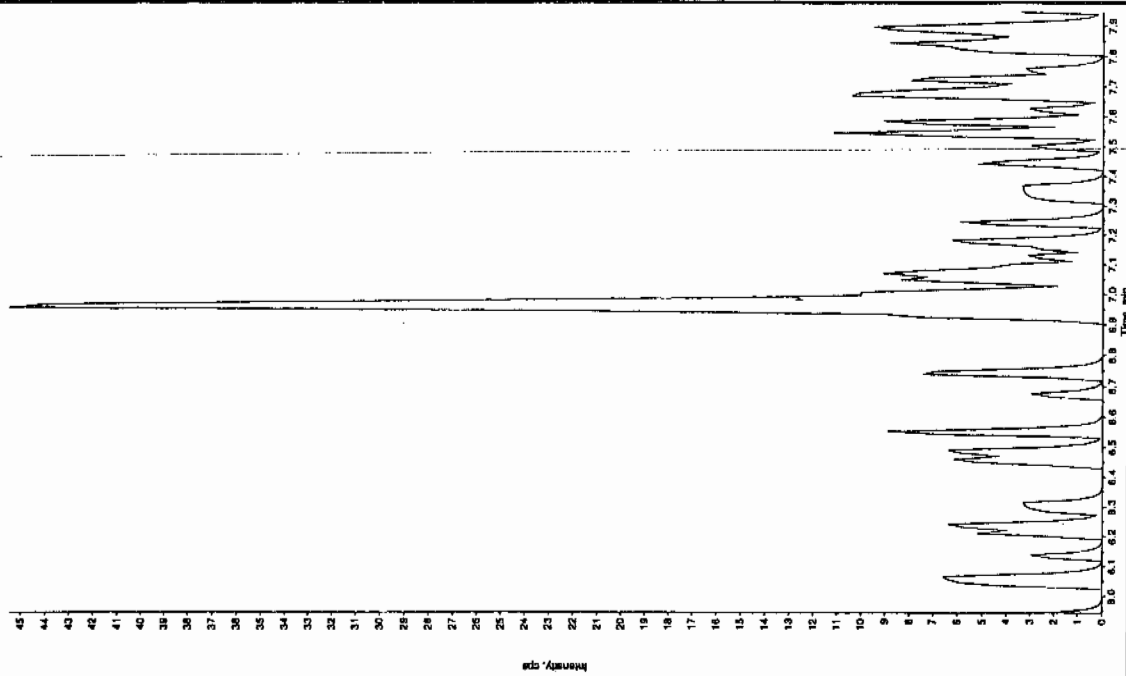
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/3/2010

Acq. Time: 10:14:03 AM

Modified: No



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Sample Name: "246330006" Sample ID: "95008121ER" File: "EX03010097.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/3/2010

Acq. Time: 10:14:03 AM

Modified: No

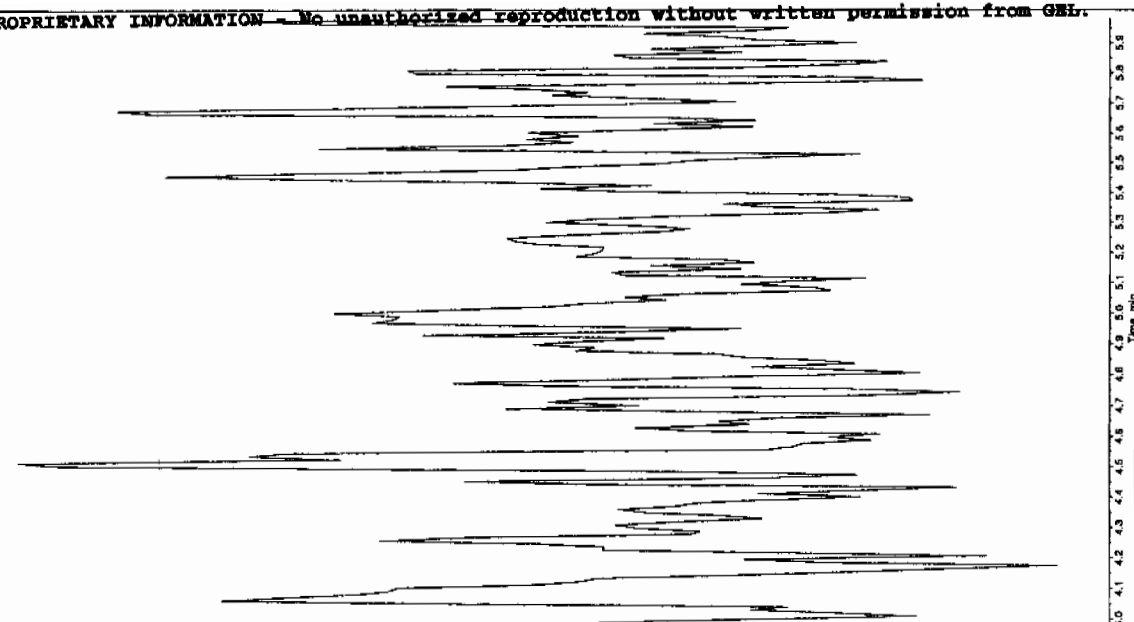


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "245330006" Sample ID: "5500010097" File: "EX500010097.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "166.0460 amu"
 Comment: "LCX83212S" Annotation: "A"

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 10:14:03 AM
 Modified: No

Intensity, cps

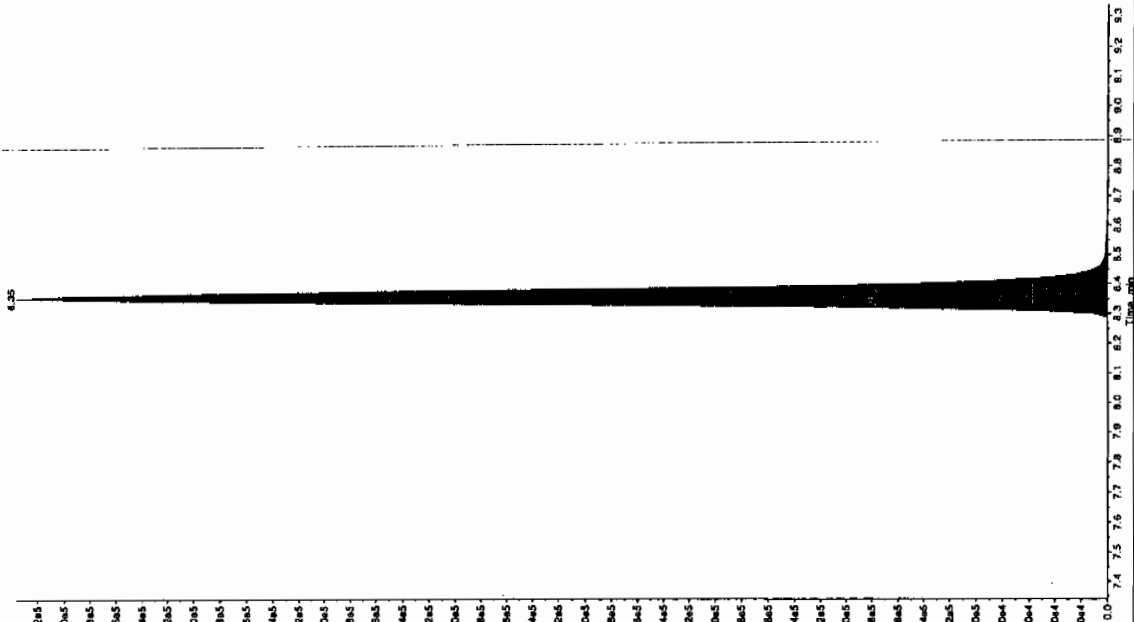


Sample Name: "245330006" Sample ID: "5500010097" File: "EX500010097.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "166.0460 amu"
 Comment: "LCX83212S" Annotation: "A"

Sample Index: 1
 Sample Type: Unknown
 Concentration: 245. ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 10:14:03 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: 8.35 min
 Area: 2.98e+006 counts
 Height: 836445.533 cps
 Start Time: 8.20 min
 End Time: 8.72 min

Intensity, cps



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "246330006" Sample ID: "95008121ER" File: "EXS03010087.wif"

Peak Name: "tris(o-orsyl) phosphate" Mass(es): "359.181.0 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

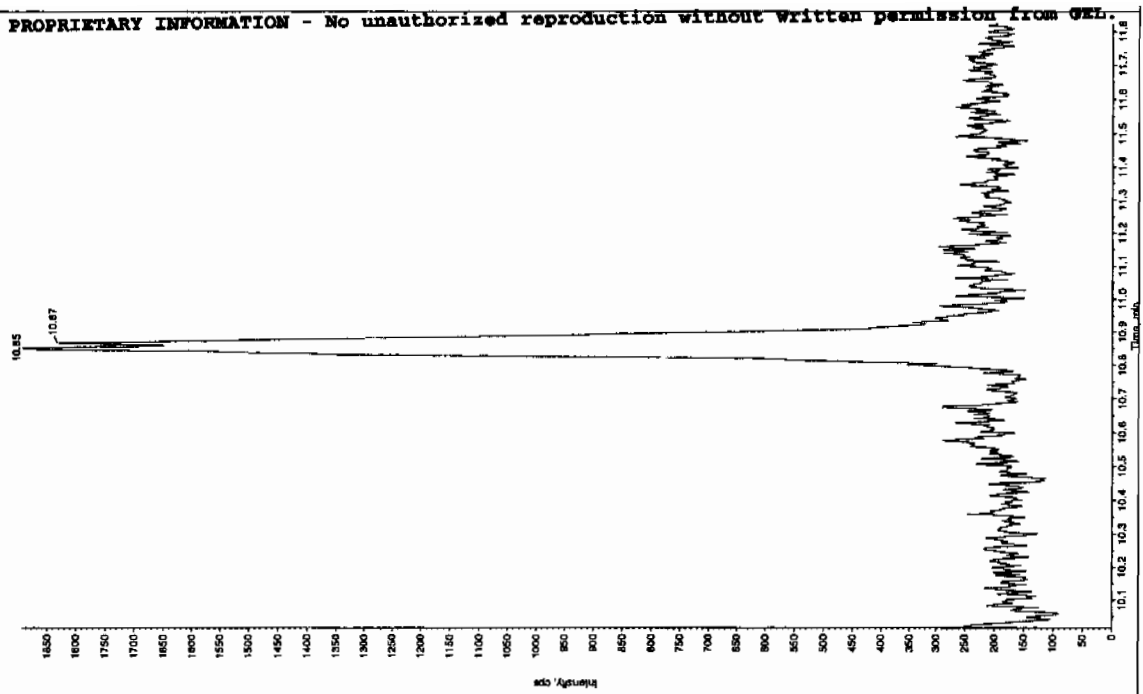
Concentration: N/A ng/mL

Calculated Conc: 0.00

Acq. Date: 3/27/2010

Acq. Time: 10:14:03 AM

Modified: No



Sample Name: "24-Diamino-6-nitroglucose" Sample ID: "95008121ER" File: "EXS03010087.wif"

Peak Name: "24-Diamino-6-nitroglucose" Mass(es): "166.046.0 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

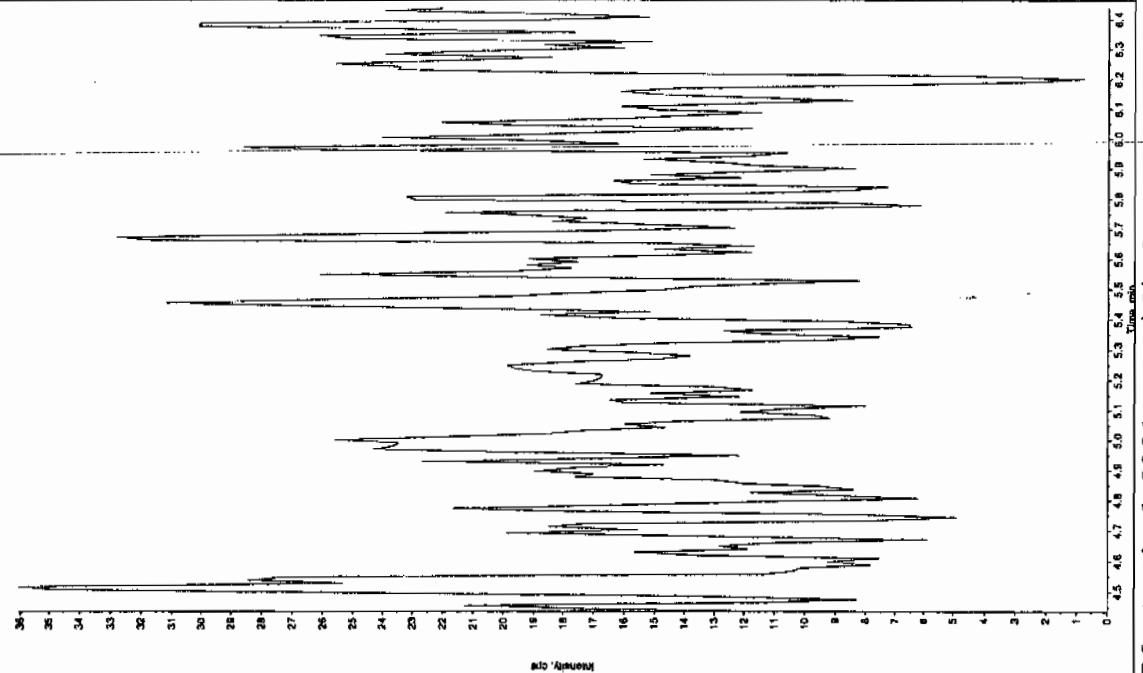
Concentration: N/A ng/mL

Calculated Conc: 0.00

Acq. Date: 3/27/2010

Acq. Time: 10:14:03 AM

Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8308

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330007

Sample Amount 2

Moisture: 27.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312098.wiff

Date Analyzed: 14-MAR-10 03:41

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

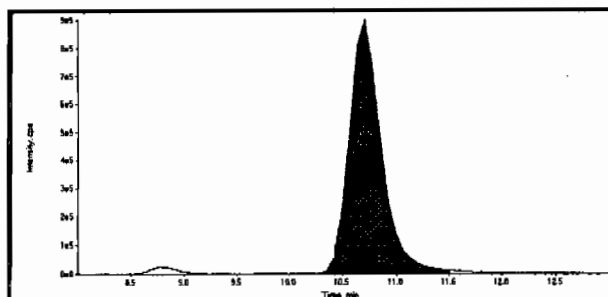
*Concentration =

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

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

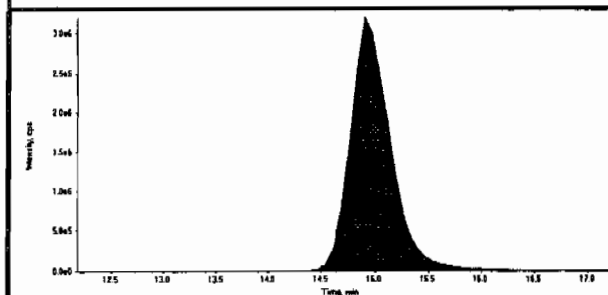
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312098.wiff	Acquisition Date	3/14/2010 3:41:03 AM
Sample Name	246330007	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



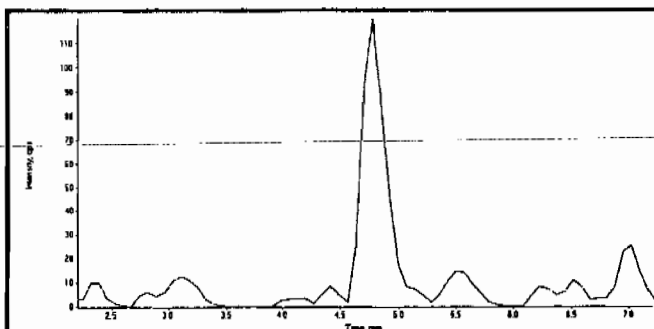
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.70
Area Counts:	18800000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

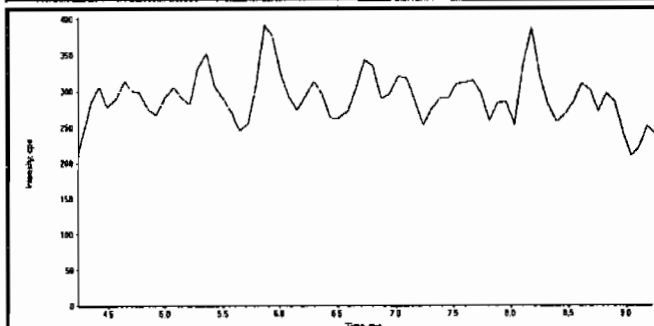


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	84000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

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3/24/10

Handwritten signature
03/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312098.wiff	Acquisition Date	3/14/2010 3:41:03 AM
Sample Name	246330007	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312098.wiff	Acquisition Date	3/14/2010 3:41:03 AM
Sample Name	246330007	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

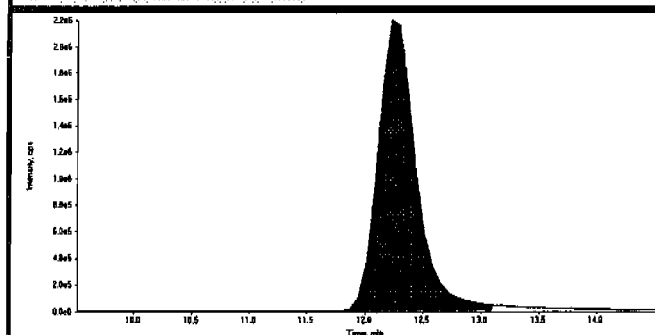
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

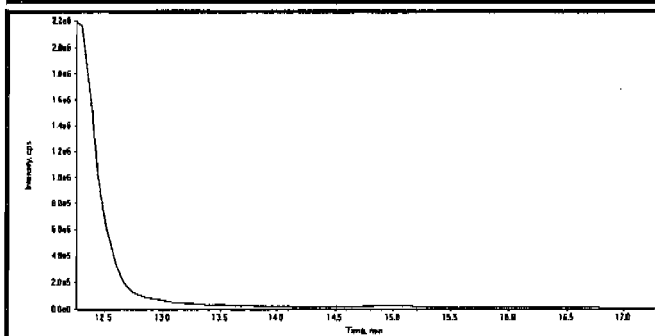
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

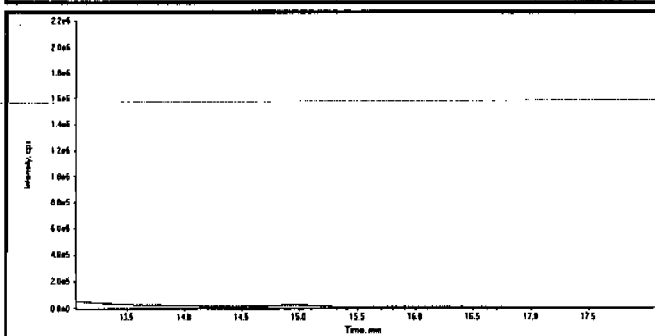
Data File	EXP0312098.wiff	Acquisition Date	3/14/2010 3:41:03 AM
Sample Name	246330007	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



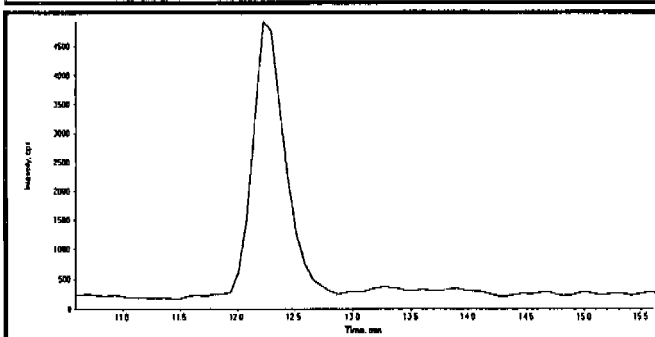
Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
Expected RT:	12.0
Actual RT:	12.2
Area Counts:	5.11e+007
Manual Modification	No
Amount:	247. (ng/mL)
% Accuracy:	N/A



Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
Expected RT:	14.8
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
Expected RT:	15.6
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

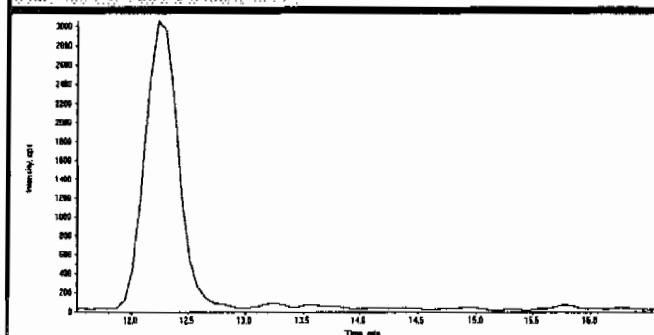


Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
Expected RT:	13.1
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

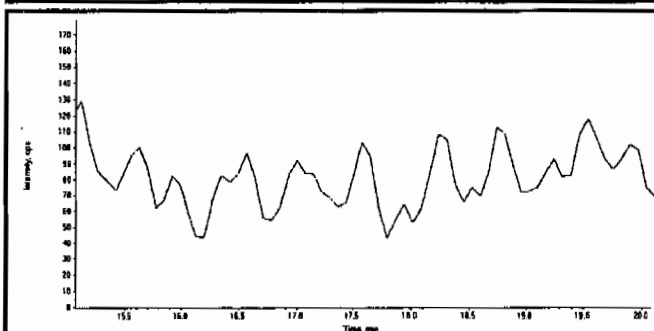
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

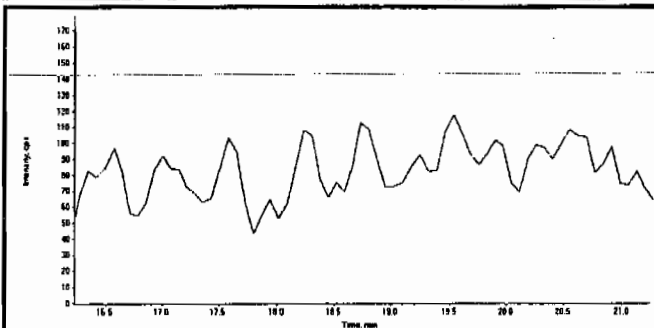
Data File	EXP0312098.wiff	Acquisition Date	3/14/2010 3:41:03 AM
Sample Name	246330007	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



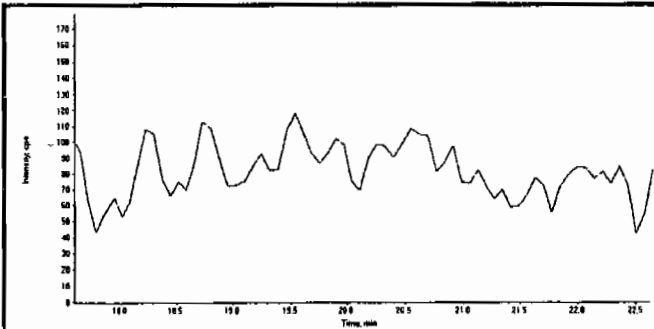
Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
Expected RT:	14.0
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
Expected RT:	17.6
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



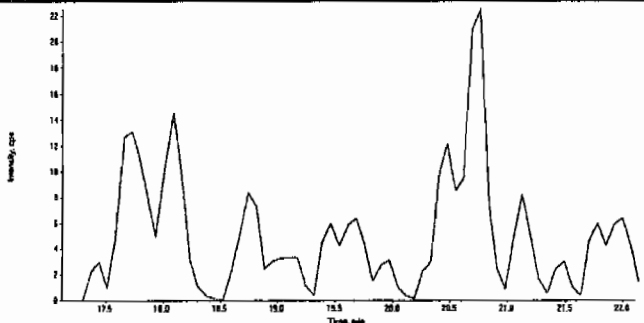
Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
Expected RT:	18.7
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
Expected RT:	20.1
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312098.wiff	Acquisition Date	3/14/2010 3:41:03 AM
Sample Name	246330007	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8308

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330007

Sample Amount 2

Moisture: 27.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010098.wiff

Date Analyzed: 02-MAR-10 10:29

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

Sample Name: "246330007" Sample ID: "9500812|LER" File: "EXS03010098.wiff"

Peak Name: "35-Dimilcamine" Mass(es): "182.0/46.0 amu"
Comment: "LCX83212S" Annotation: "

Sample Index: 1

Sample Type: Unknown
Concentration: N/A

Calculated Conc:	0.00	ng/mL
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Req. Date: 3/2/2010
Req. Time: 10:29:46 AM

MM 06:57:07
:ZMTT.b-

Modified:	No

Sample Name: "246330007" Sample ID: "9500812|LER" File: "EXS0301009B.wll"

Peak Name: "TATB" Mass(es): "257.2200"
Comment: "LCX83212S" Annotation: "

Sample Index: 1

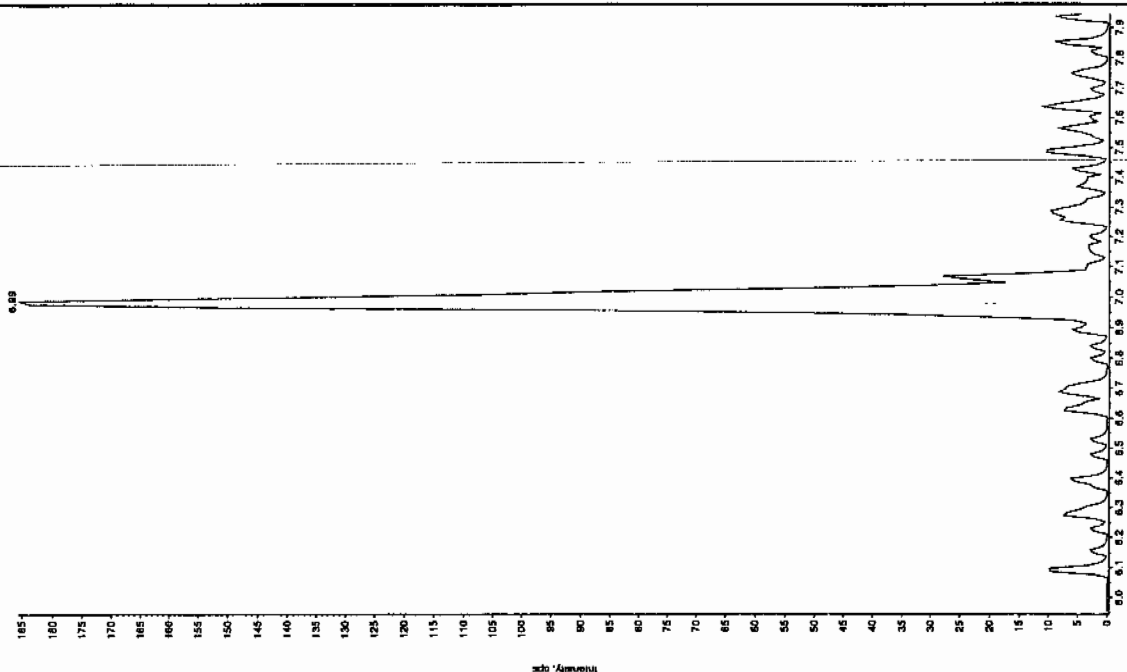
sample type:	Unknown
concentration:	N/A

Calculated Conc:	0.00	ng/mL
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cq. Date: 3/2/2010
cq. Time: 10:29:46 AM

DATE: 11/11/01

Modified: No

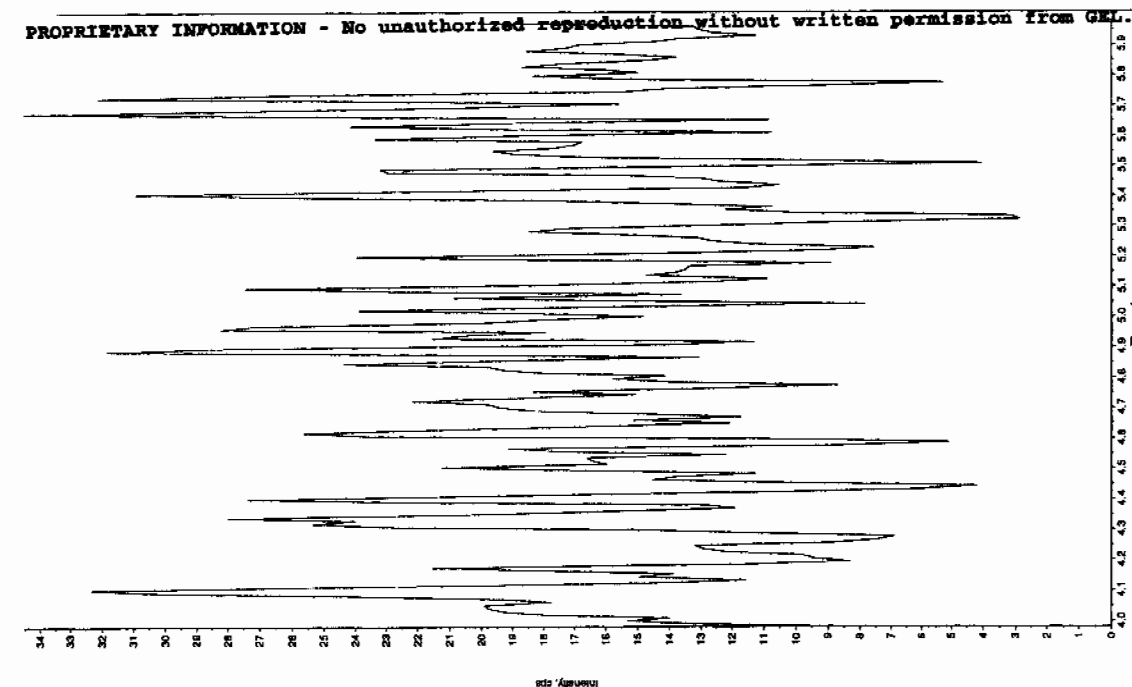


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Page 1014 of 1540

Sample Name: "24633007" Sample ID: "95008121" File: "EXS001008.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "186.046.0 amu"
 Comment: "LCX832125" Annotation: -

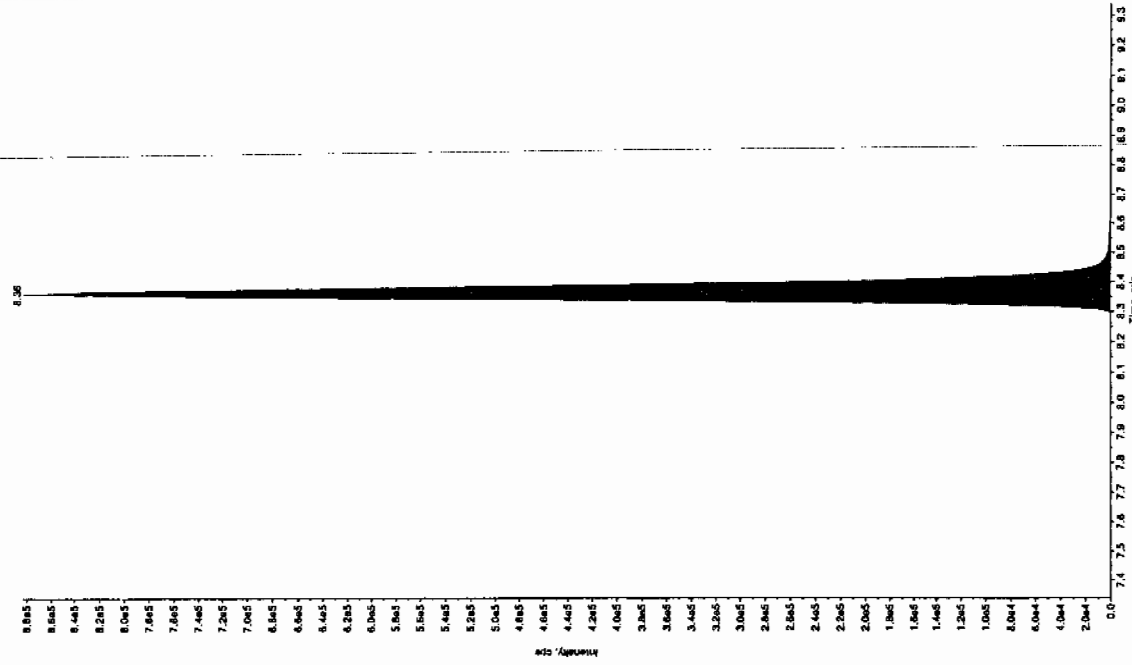
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 mg/mL
 Acq. Date: 3/2/2010
 Acq. Time: 10:29:45 AM
 Modified: No

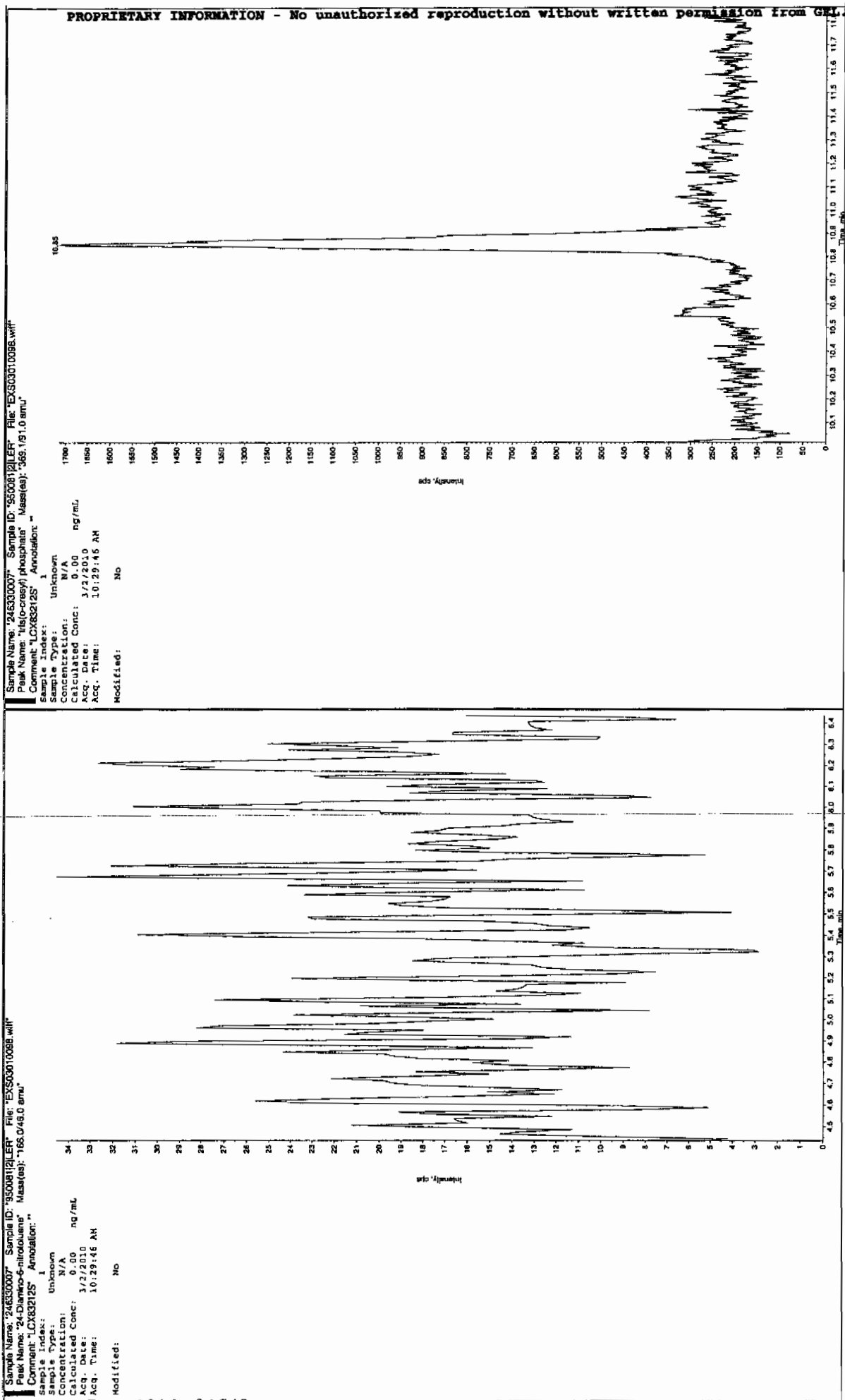


Sample Name: "24633007" Sample ID: "95008121" File: "EXS001008.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1715.9 amu"
 Comment: "LCX832125" Annotation: -

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 245 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 10:29:45 AM
 Modified: No

Proc. Algorithm: IntelliQuan - 10A
 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





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8301

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330008

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312102.wiff

Date Analyzed: 14-MAR-10 05:26

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

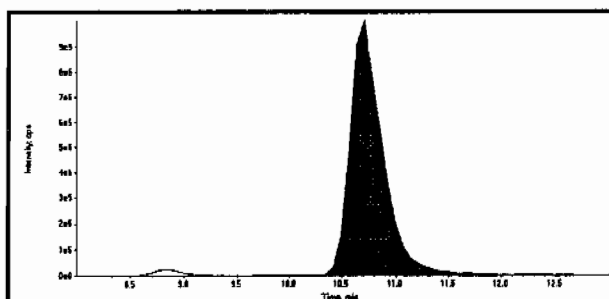
*Concentration =

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

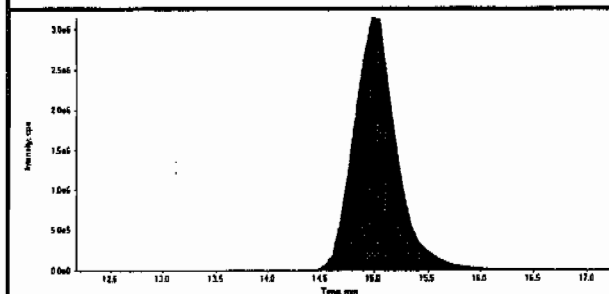
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

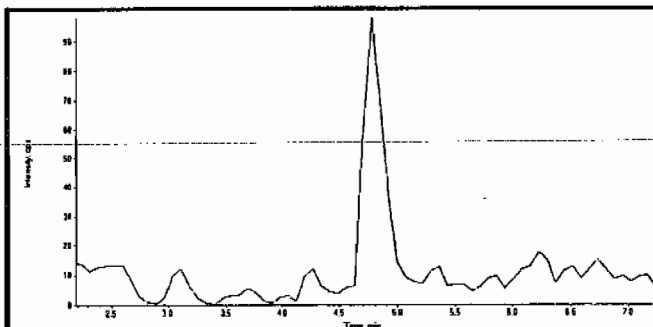
Data File	EXP0312102.wiff	Acquisition Date	3/14/2010 5:26:54 AM
Sample Name	246330008	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



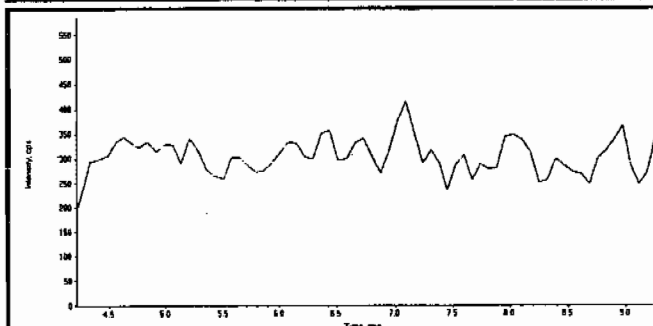
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.70
Area Counts:	20800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	15.00
Area Counts:	87700000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

See
3/24/10

hmm
03/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312102.wiff	Acquisition Date	3/14/2010 5:26:54 AM
Sample Name	246330008	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312102.wiff	Acquisition Date	3/14/2010 5:26:54 AM
Sample Name	246330008	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312102.wiff	Acquisition Date	3/14/2010 5:26:54 AM
Sample Name	246330008	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.3
	Area Counts:	5.42e+007
	Manual Modification	No
	Amount:	251. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312102.wiff	Acquisition Date	3/14/2010 5:26:54 AM
Sample Name	246330008	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

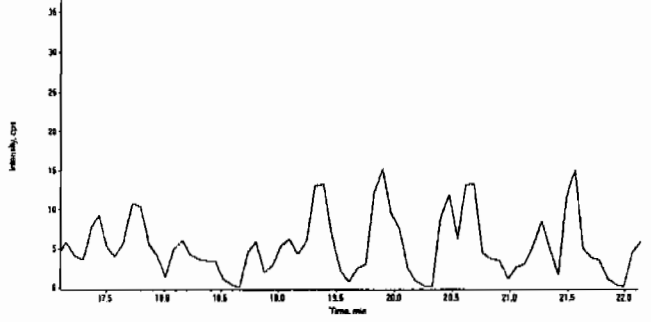
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312102.wiff	Acquisition Date	3/14/2010 5:26:54 AM
Sample Name	246330008	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8301

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330008

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010099.wiff

Date Analyzed: 02-MAR-10 10:45

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 =

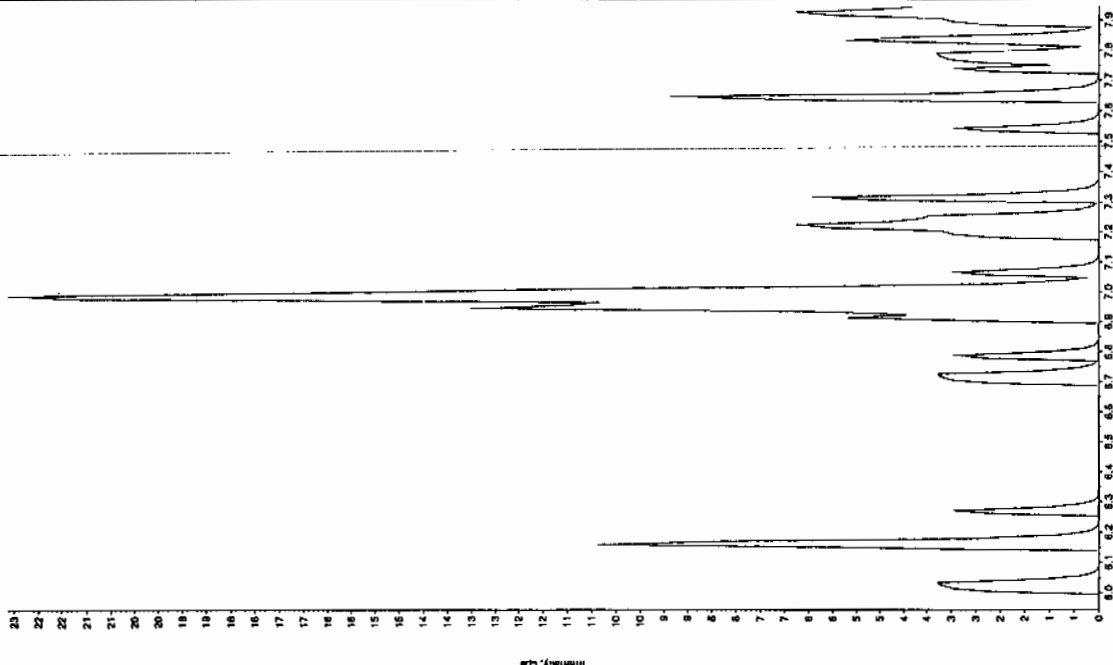
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Sample Name: "246330038" Sample ID: "95008121ER" File: "EX503010099.wif"

Peak Name: "35-Dinitrobenzidine" Mass(es): "182.046.0 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 3/2/2010
Acq. Time: 10:45:31 AM
Modified: No



Sample Name: "246330038" Sample ID: "95008121ER" File: "EX503010099.wif"

Peak Name: "TAIB" Mass(es): "257.2204.9 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 3/2/2010
Acq. Time: 10:45:31 AM
Modified: No



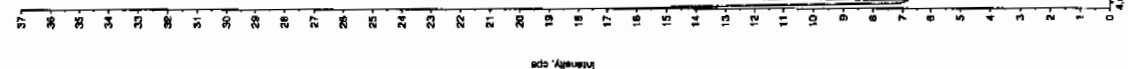
*GEL SOP GL-CA-E-056, Method 8321A-Modified LCMSMS#4

246330038

246330038

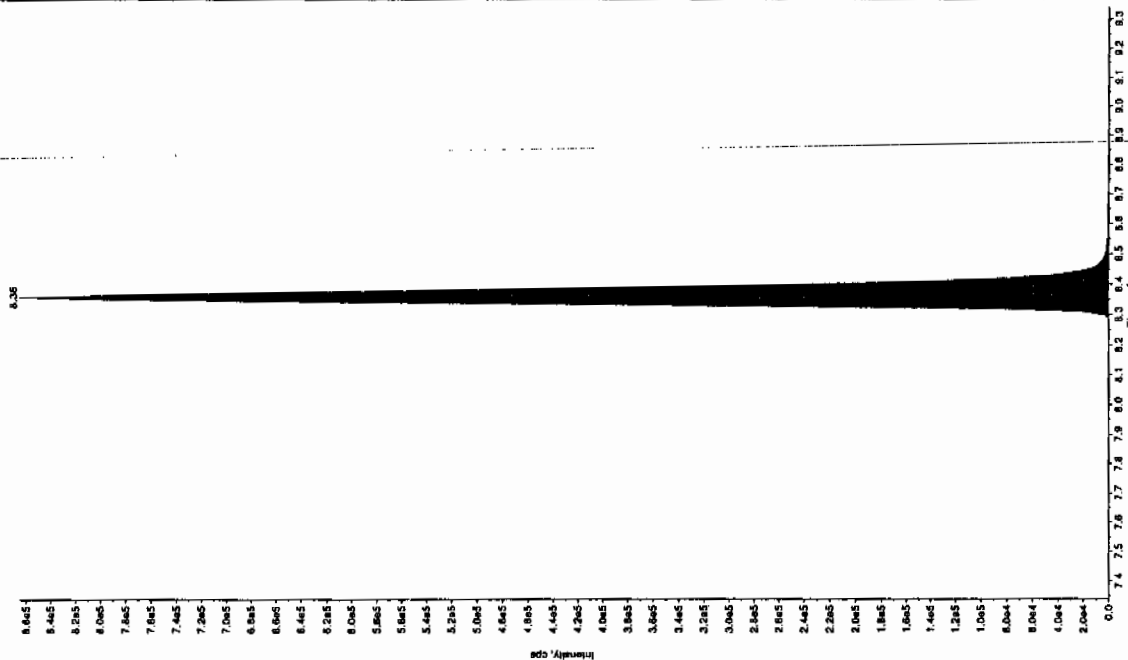
Sample Name: "245330008" Sample ID: "95008121ER" File: "EX50010089.wif"
 Peak Name: "28-Diamino-4-nitrobenzene" Mass(es): "186.0465.0 amu"
 Comment: "LCX83212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/2/2010
 Acq. Time: 10:45:11 AM
 Modified: No



Sample Name: "245330008" Sample ID: "95008121ER" File: "EX50010089.wif"
 Peak Name: "28-Diamino-4-nitrobenzene" Mass(es): "186.0465.0 amu"
 Comment: "LCX83212S" Annotation: "

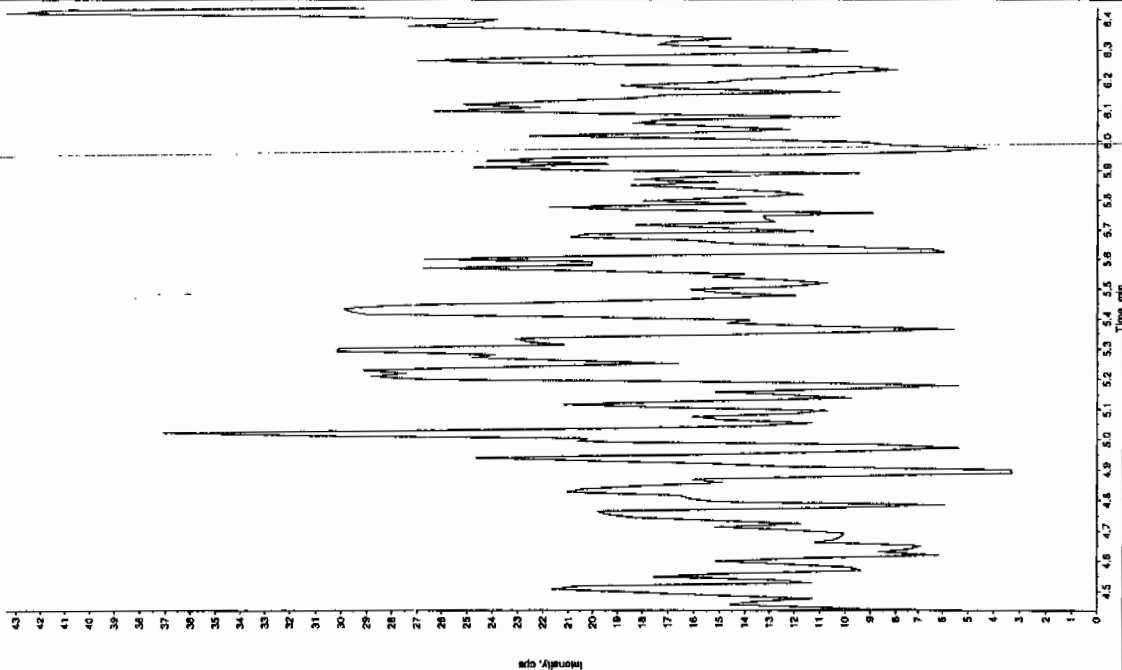
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/2/2010
 Acq. Time: 10:45:11 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 FT Window: 15.0 sec
 Expected RT: 8.34 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.36 min
 Area: 3.02e+06 counts
 Height: 85905154 cps
 Start Time: 8.27 min
 End Time: 8.73 min



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

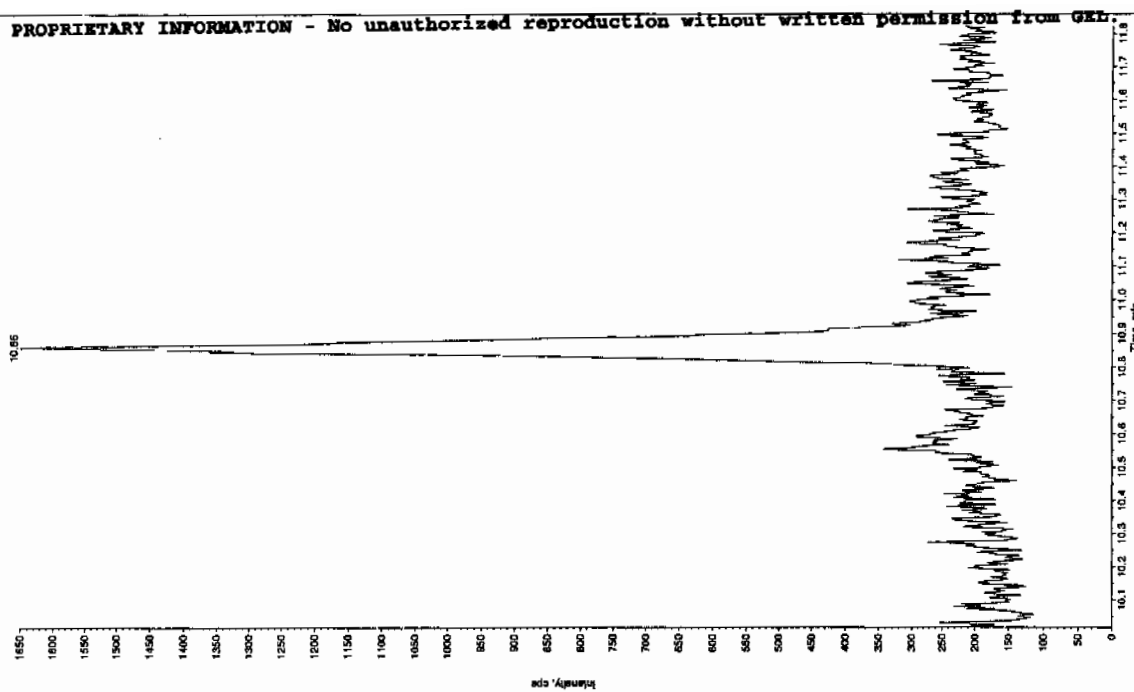
Sample Name: "246330008" Sample ID: "9500812121ER" File: "EX503010089.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "155.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/27/2010
 Acq. Time: 10:45:31 AM
 Modified: No



Sample Name: "246330008" Sample ID: "9500812121ER" File: "EX503010089.wif"
 Peak Name: "tris(2-cresyl) phosphite" Mass(es): "369.181.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/27/2010
 Acq. Time: 10:45:31 AM
 Modified: No



*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: RE15-10-8300

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330009

Sample Amount 2

Moisture: 30.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312103.wiff

Date Analyzed: 14-MAR-10 05:53

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

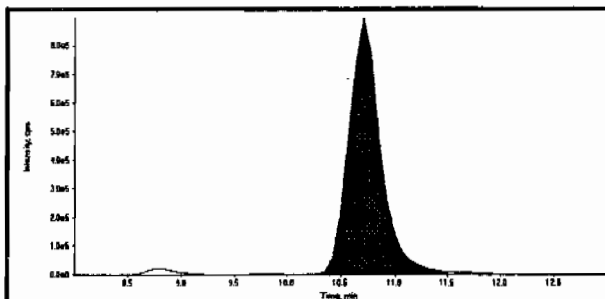
*Concentration =

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

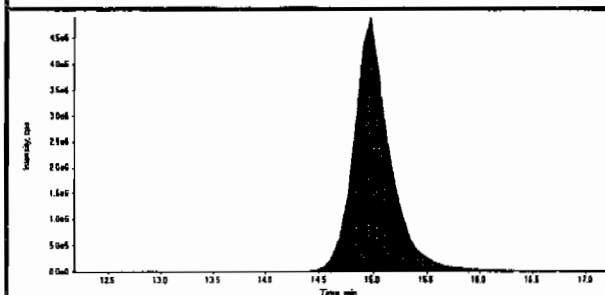
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

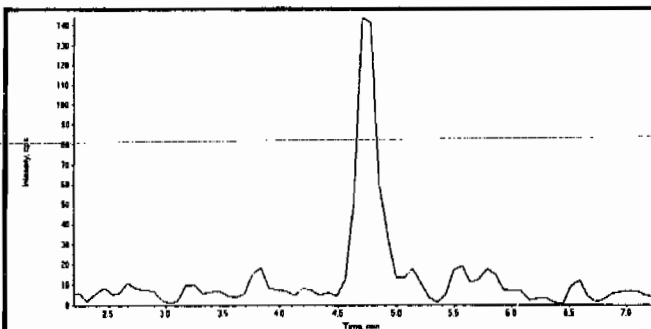
Data File	EXP0312103.wiff	Acquisition Date	3/14/2010 5:53:21 AM
Sample Name	246330009	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



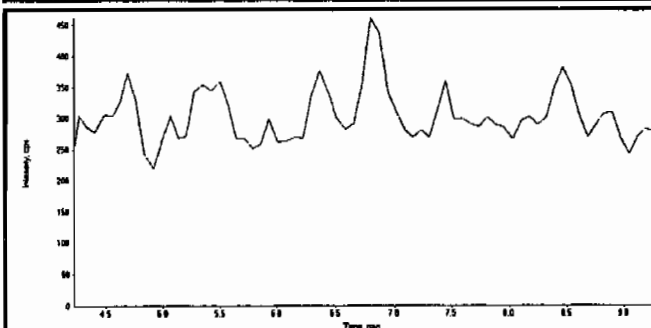
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.70
Area Counts:	18500000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	15.00
Area Counts:	113000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

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GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

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LCMSMS#3

Data File	EXP0312103.wiff	Acquisition Date	3/14/2010 5:53:21 AM
Sample Name	246330009	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312103.wiff	Acquisition Date	3/14/2010 5:53:21 AM
Sample Name	246330009	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312103.wiff	Acquisition Date	3/14/2010 5:53:21 AM
Sample Name	246330009	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	5.16e+007
	Manual Modification	No
	Amount:	186. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	15.0
	Area Counts:	1.15e+006
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

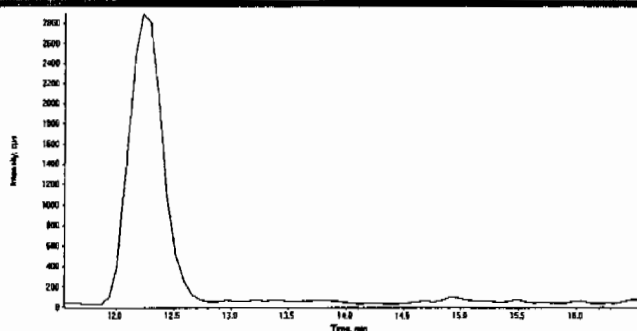
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

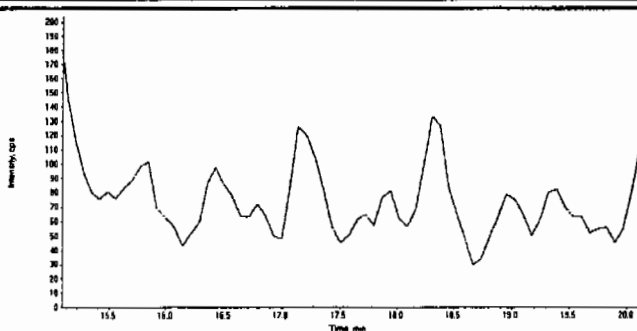
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

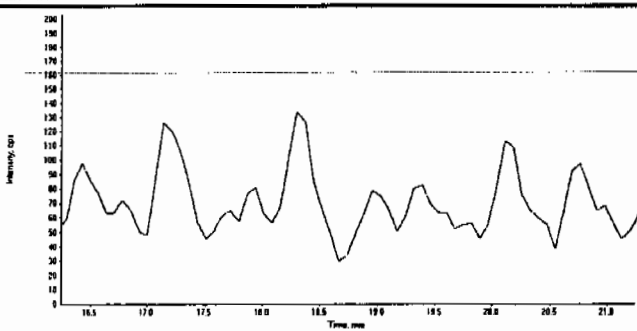
Data File	EXP0312103.wiff	Acquisition Date	3/14/2010 5:53:21 AM
Sample Name	246330009	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



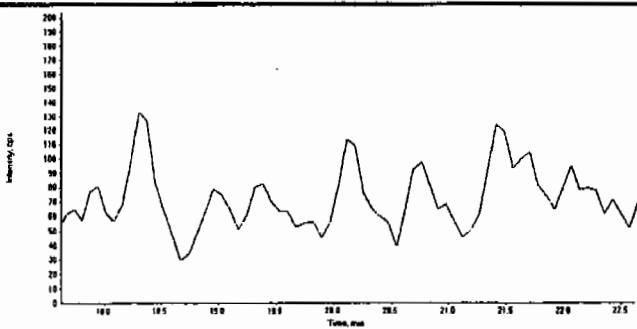
Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
Expected RT:	14.0
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
Expected RT:	17.6
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



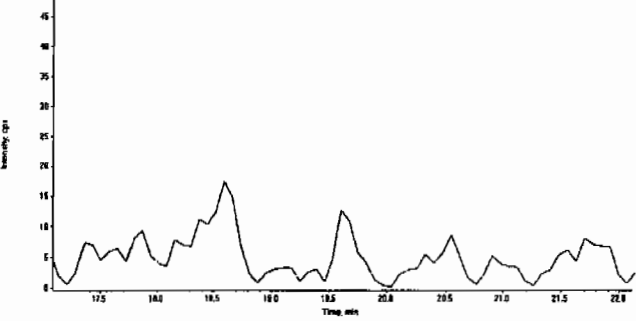
Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
Expected RT:	18.7
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
Expected RT:	20.1
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

GEL Laboratories, LLC
 GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
 LCMSMS#3

Data File	EXP0312103.wiff	Acquisition Date	3/14/2010 5:53:21 AM
Sample Name	246330009	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8300

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330009

Sample Amount 2

Moisture: 30.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010103.wiff

Date Analyzed: 02-MAR-10 11:48

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

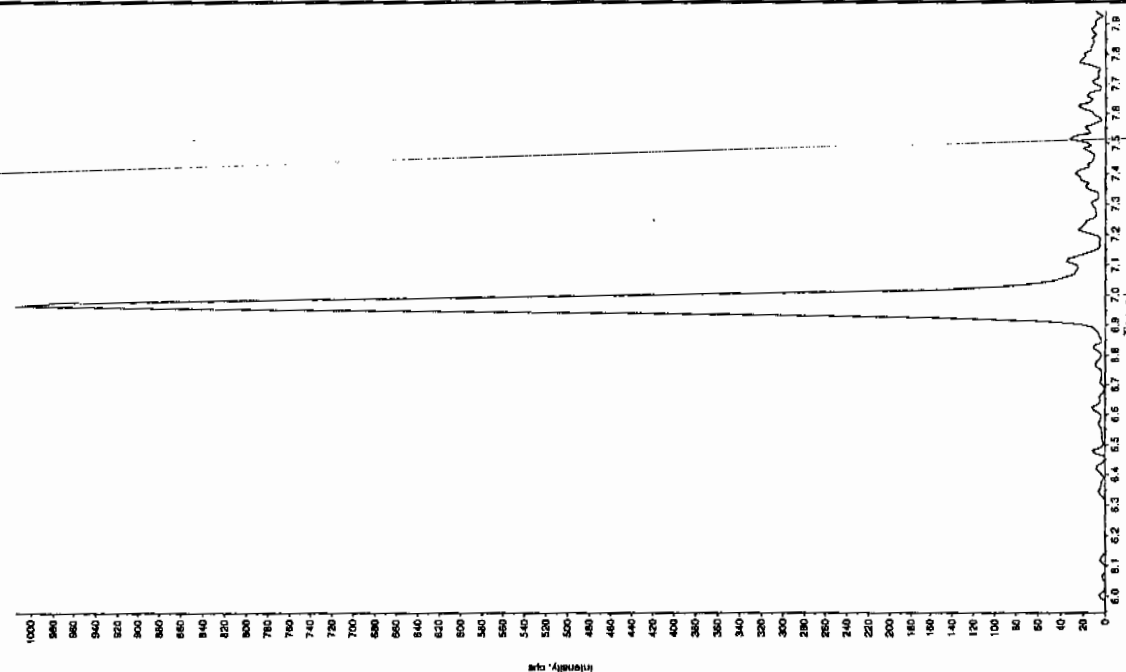
*Concentration =

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

Sample Name: "246330009" Sample ID: "95008121ER" File: "EXS03010103.will"

Peak Name: "3S-Dinitroaniline" Mass(es): "182.046.0 amu"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Acq. Date: 3/2/2010
 Acq. Time: 11:48:33 AM
 Modified: No



Sample Name: "246330009" Sample ID: "95008121ER" File: "EXS03010103.will"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

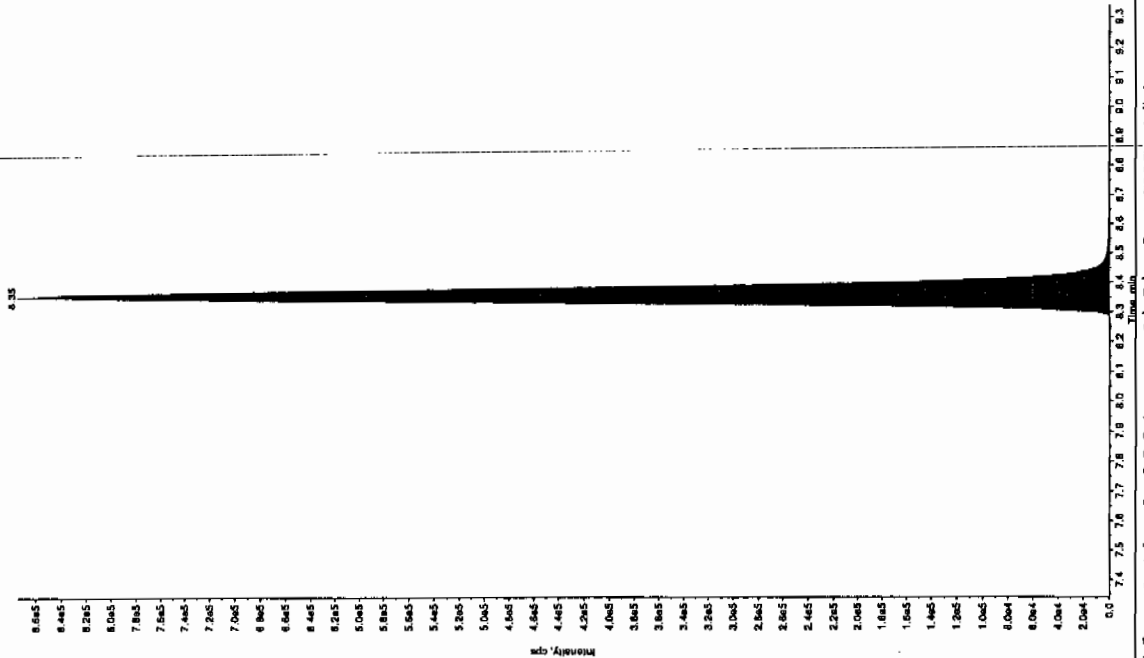
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Acq. Date: 3/2/2010
 Acq. Time: 11:48:33 AM
 Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "246330009" Sample ID: "95008121ER" File: "EXS03010103.wif"
 Peak Name: "26-Dinitro-4-nitrotoluene" Mass(es): "186.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Acq. Date: 3/2/2010
 Acq. Time: 11:48:33 AM
 Modified: No

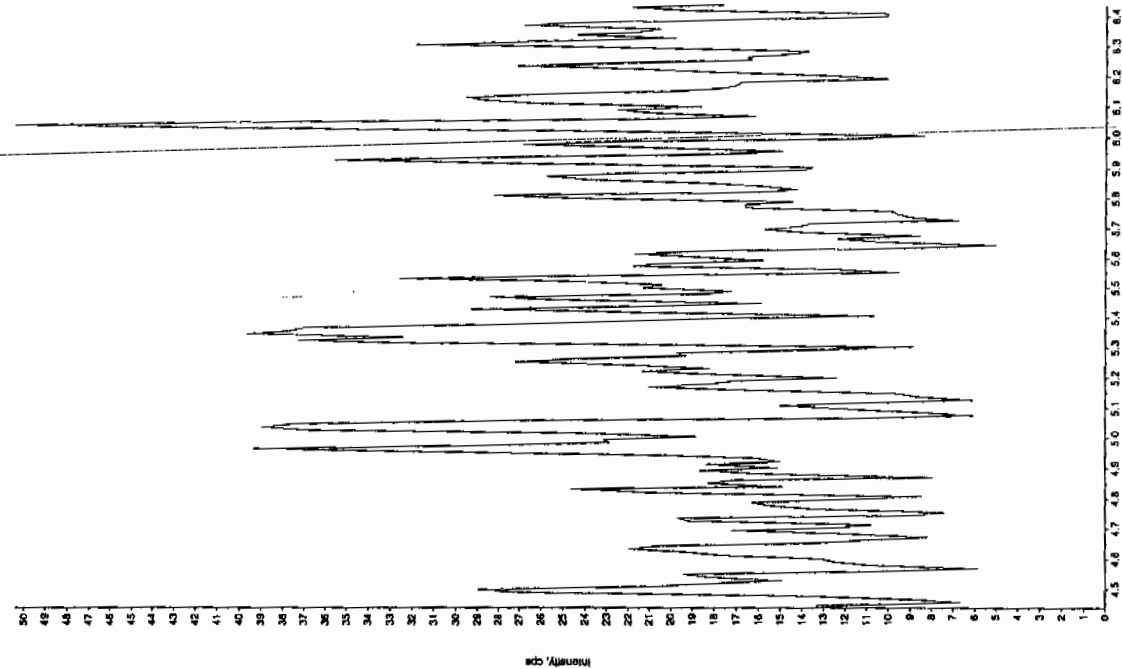


Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3/2/2010
 Acq. Date: 11:48:33 AM
 Acq. Time: 11:48:33 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.34 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.35 min
 Area: 3.05e+006 counts
 Height: 374855.200 cps
 Start Time: 8.26 min
 End Time: 8.71 min

*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

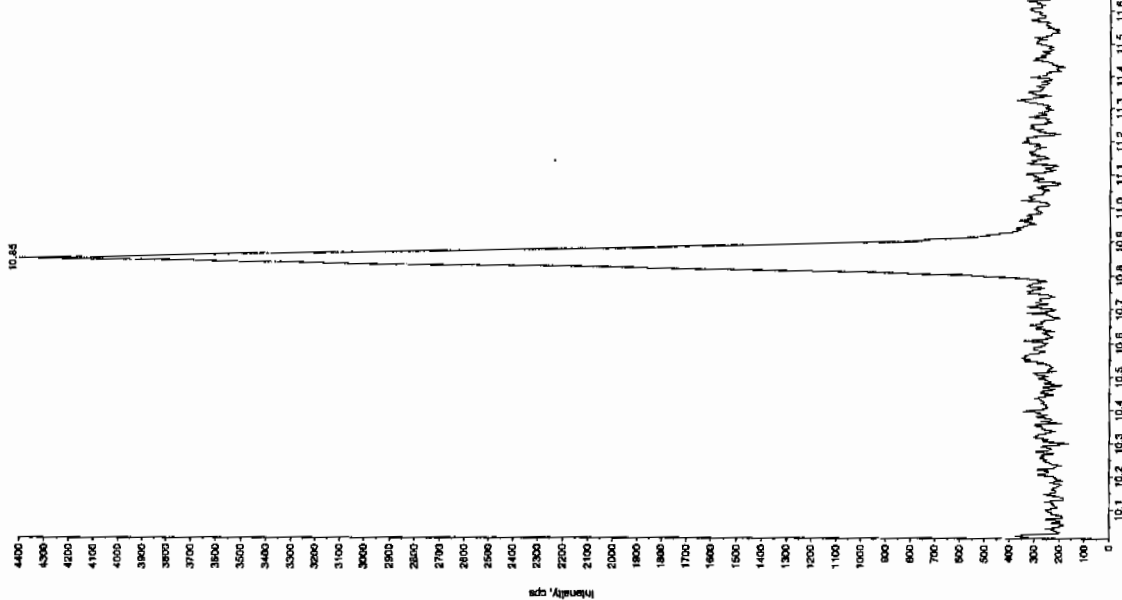
Sample Name: "24633009" Sample ID: "35008121L1E" File: "EX500010103.wif"
 Peak Name: "24-Diamino-6-phosphoriboside" Mass(es): 355.151.0 amu
 Comment: "LCX83212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 11:48:33 AM
 Modified: No



Sample Name: "24633009" Sample ID: "35008121L1E" File: "EX500010103.wif"
 Peak Name: "24-Diamino-6-phosphoriboside" Mass(es): 355.151.0 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: 11:48:33 AM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8324

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330010

Sample Amount 2

Moisture: 20.9

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312104.wiff

Date Analyzed: 14-MAR-10 06:19

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

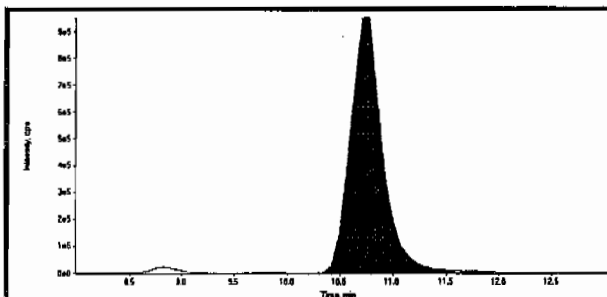
*Concentration =

Instrument Value	X	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		<u>Sample Amount</u>		

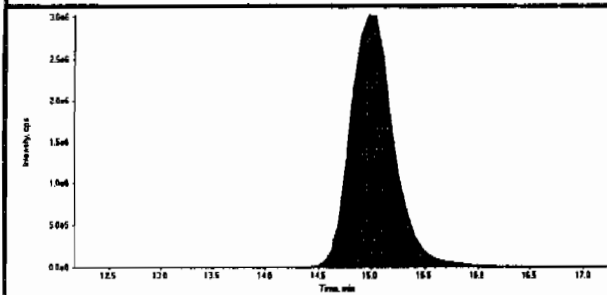
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

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LCMSMS#3

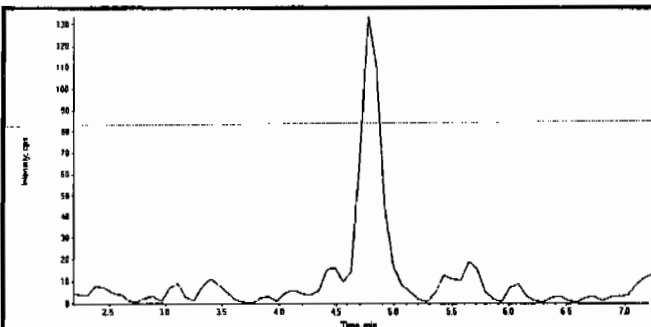
Data File	EXP0312104.wiff	Acquisition Date	3/14/2010 6:19:53 AM
Sample Name	246330010	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



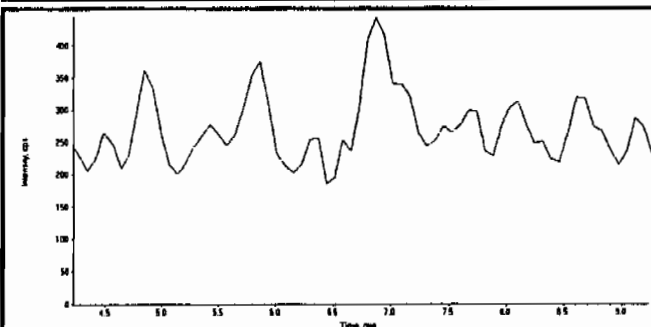
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.80
Area Counts:	20100000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	15.00
Area Counts:	87400000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

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GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312104.wiff	Acquisition Date	3/14/2010 6:19:53 AM
Sample Name	246330010	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312104.wiff	Acquisition Date	3/14/2010 6:19:53 AM
Sample Name	246330010	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312104.wiff	Acquisition Date	3/14/2010 6:19:53 AM
Sample Name	246330010	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.3
	Area Counts:	5.48e+007
	Manual Modification	No
	Amount:	255. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	15.0
	Area Counts:	8.06e+005
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312104.wiff	Acquisition Date	3/14/2010 6:19:53 AM
Sample Name	246330010	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

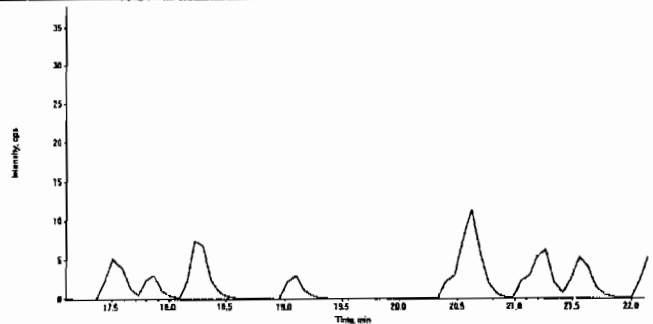
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312104.wiff	Acquisition Date	3/14/2010 6:19:53 AM
Sample Name	246330010	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8324

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 246330010

Sample Amount 2

Moisture: 20.9

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010104.wiff

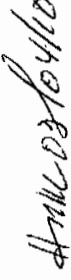
Date Analyzed: 02-MAR-10 12:04

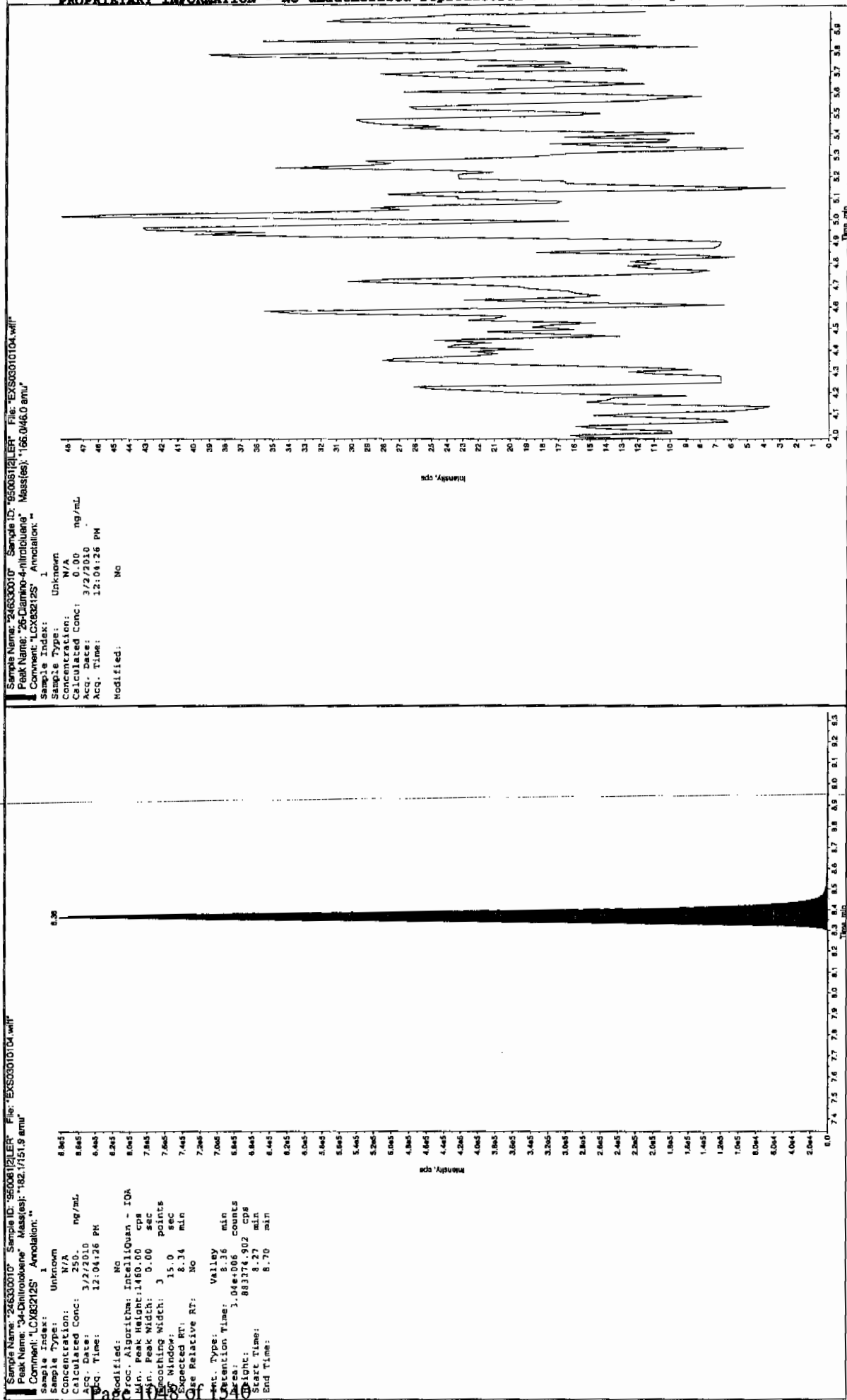
Units: ug/kg

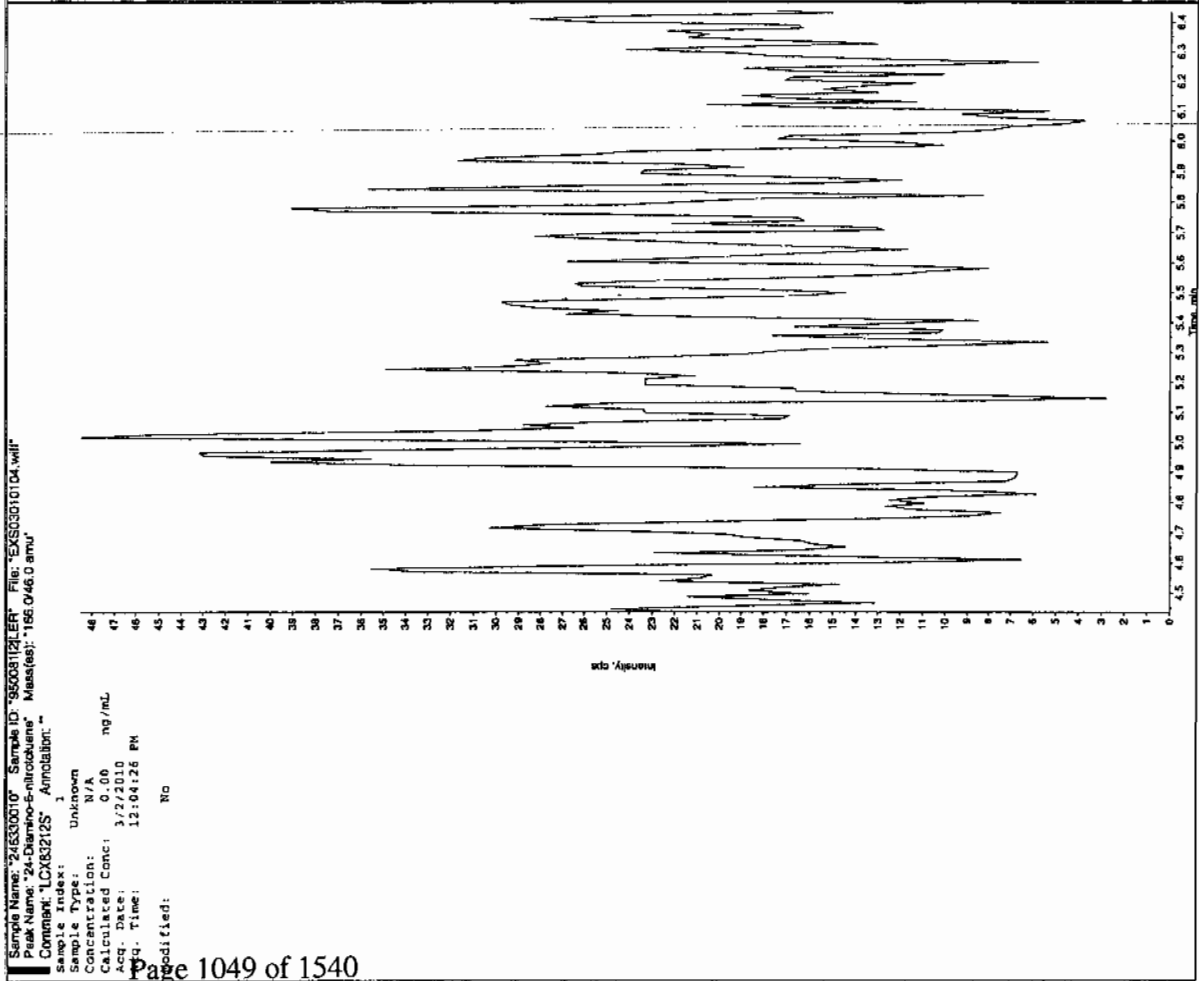
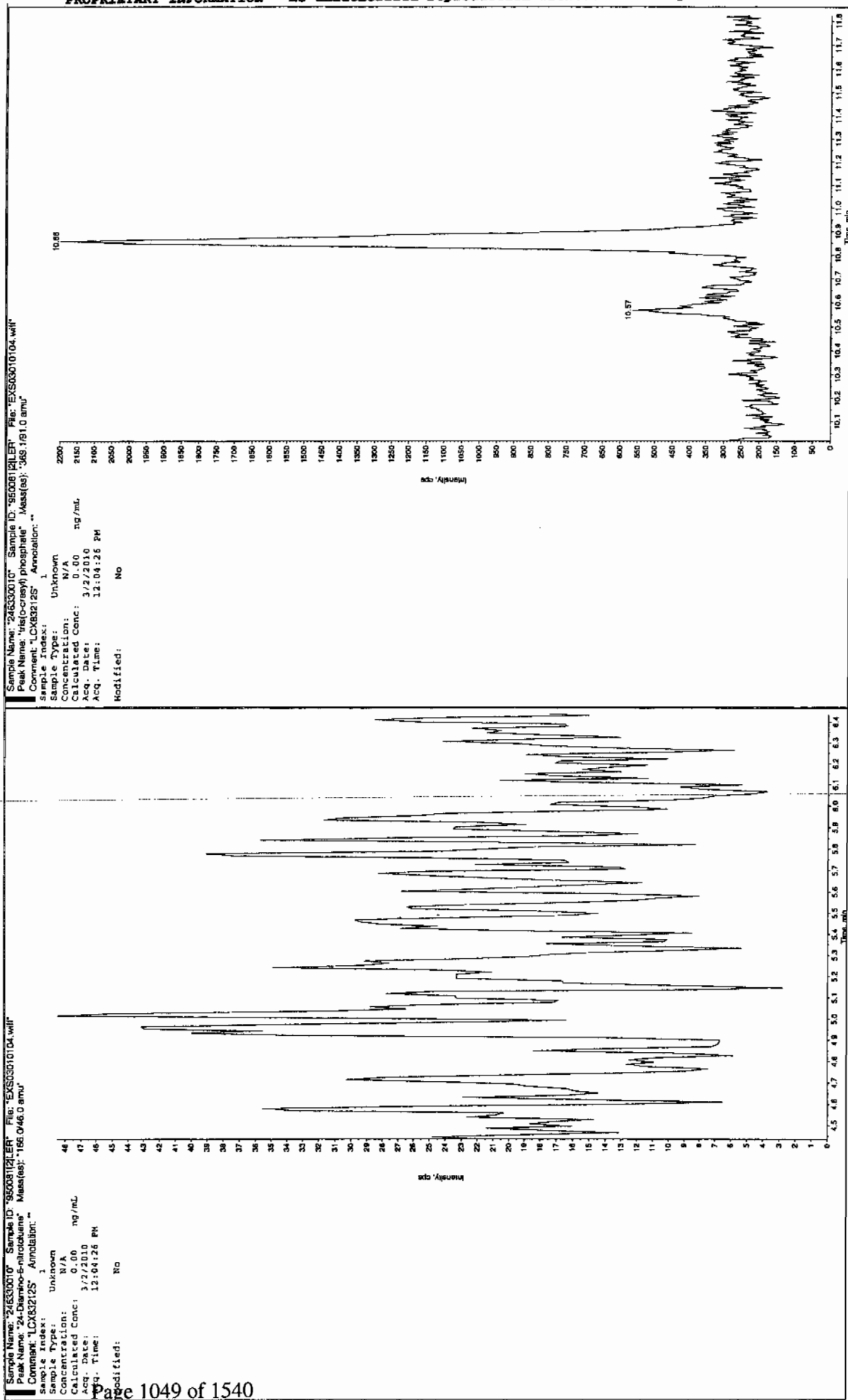
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*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

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	na	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: 10-1567

Lab Code: GEL

Run Date: 01-MAR-10 12-MAR-10

LCMSMS Instrument ID: LCMSMS3

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Parname	50	51	52	53	54	55	Ave RF	RSD	Q
1,3,5-Trinitrobenzene	6.9	6.65	6.64	6.25	5.02	5.13	6.098	13.4	
2,4,6-Trinitrotoluene	2.78	2.93	2.4	2.21	1.96	1.77	2.342	19.3	
2,4-Dinitrotoluene	.617	.711	.625	.588	.531	.459	0.589	14.7	
2-Amino-4,6-dinitrotoluene	.031	.029	.03	.029	.032	.031	0.030	4.34	
3,4-Dinitrotoluene	1.27	1.4	1.35	1.2	1.11	1.06	1.232	10.8	
4-Amino-2,6-dinitrotoluene	1.04	1.07	.909	.925	.857	.797	0.933	11	
DNX	1.53	1.43	1.36	1.44	1.31	1.53	1.433	6.21	
HMX	2.61	2.36	2.17	2.29	2.01	2.24	2.280	8.9	
MX	.825	.793	.708	.785	.766	.865	0.790	6.72	
Nitrobenzene	.139	.147	.148	.168	.147	.161	0.152	7.14	
PETN	.012	.012	.01	.01	.012	.012	0.011	8.28	
RDX	1.68	1.46	1.48	1.64	1.51	1.67	1.573	6.39	
TNX	1.74	1.66	1.46	1.64	1.56	1.61	1.612	5.96	
Tetryl	3.42	3.3	3.2	3.93	3.36	3.52	3.455	7.46	
m-Dinitrobenzene	2.9	2.74	2.81	2.82	2.34	2.42	2.672	8.69	
m-Nitrotoluene	.01	.012	.009	.01	.011	.01	0.010	10.1	
o-Nitrotoluene	.017	.018	.016	.016	.017	.017	0.017	4.8	
p-Nitrotoluene	.01	.01	.008	.009	.009	.009	0.009	7.7	

Q column used to flag RSD values outside of Limit (>20%)

* Values outside of QC Limit

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1567

Lab Code: GEL

Run Date: 01-MAR-10 12-MAR-10

LCMSMS Instrument ID: LCMSMS3

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Linear

Calibration Level:	50	51	52	53	54	55	Slope	Intercept	COD	Q
Data File:	EXP0312003.w	EXP0312004.w	EXP0312005.w	EXP0312006.w	EXP0312007.w	EXP0312008.w				
Parname										
2,6-Dinitrotoluene	5150000	9810000	38700000	70900000	127000000	159000000	.778	.039	.9995	

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

031210ICAL

Peak Name: 13-Dinitrobenzene-d4
Use as Internal Standard
Q1/Q3 Masses: 172.05/46.10 amu
Peak Name: 26-Dinitrotoluene-d3
Use as Internal Standard
Q1/Q3 Masses: 184.99/155.00 amu

Peak Name: HMX
Internal Standard: 13-Dinitrobenzene-d4
Q1/Q3 Masses: 341.20/46.00 amu

Fit Mean Response Factor Weighting
Factor 2.28
Standard deviation 0.203
%RSD 8.9
Use Area

Peak Name: RDX
Internal Standard: 13-Dinitrobenzene-d4
Q1/Q3 Masses: 267.01/46.10 amu

Fit Mean Response Factor Weighting
Factor 1.57
Standard deviation 0.1
%RSD 6.39
Use Area

Peak Name: TNX
Internal Standard: 13-Dinitrobenzene-d4
Q1/Q3 Masses: 219.00/45.00 amu

Fit Mean Response Factor Weighting
Factor 1.61
Standard deviation 0.0959
%RSD 5.96
Use Area

Peak Name: DNX
Internal Standard: 13-Dinitrobenzene-d4
Q1/Q3 Masses: 235.00/45.00 amu

Fit Mean Response Factor Weighting
Factor 1.43
Standard deviation 0.0891

None Iterate No

None Iterate No

None Iterate No

None Iterate No

Page 1

for 3/24/10

HMW 3/24/10

0312101CAL

%RSD 6.21
Use Area

Peak Name: MNX
Internal Standard: 13-Dinitrobenzene-d4
Q1/Q3 Masses: 251.00/46.00 amu

Fit Mean Response Factor Weighting
Factor 0.79
Standard deviation 0.0531
%RSD 6.72
Use Area

None Iterate No

Peak Name: 135-Trinitrobenzene
Internal Standard: 13-Dinitrobenzene-d4
Q1/Q3 Masses: 212.97/182.80 amu

Fit Mean Response Factor Weighting
Factor 6.1
Standard deviation 0.82
%RSD 13.4
Use Area

None Iterate No

Peak Name: 13-Dinitrobenzene
Internal Standard: 13-Dinitrobenzene-d4
Q1/Q3 Masses: 167.95/137.90 amu

Fit Mean Response Factor Weighting
Factor 2.67
Standard deviation 0.232
%RSD 8.69
Use Area

None Iterate No

Peak Name: Tetra[
Internal Standard: 13-Dinitrobenzene-d4
Q1/Q3 Masses: 240.95/180.80 amu

Fit Mean Response Factor Weighting
Factor 3.46
Standard deviation 0.258
%RSD 7.46
Use Area

None Iterate No

Peak Name: 246-Trinitrotoluene

Page 2

031210ICAL

Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 227.12/209.80 amu

Fit Mean Response Factor weighting
Factor 2.34
Standard deviation 0.453
%RSD 19.3
Use Area

None Iterate No

Peak Name: Nitrobenzene
Internal Standard: 13-Dinitrobenzene-d4
Q1/Q3 Masses: 123.04/46.00 amu

Fit Mean Response Factor weighting
Factor 0.152
Standard deviation 0.0108
%RSD 7.14
Use Area

None Iterate No

Peak Name: 34-dinitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 182.00/46.00 amu

Fit Mean Response Factor weighting
Factor 1.23
Standard deviation 0.133
%RSD 10.8
Use Area

None Iterate No

Peak Name: 26-dinitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 182.00/46.00 amu

Fit Linear weighting
Intercept 0.039
Slope 0.778
Correlation coefficient 0.9995
Use Area

None Iterate No

Peak Name: 24-dinitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 182.00/46.00 amu

Fit Mean Response Factor weighting

None Iterate No

Page 3

031210ICAL

Factor 0.588
Standard deviation 0.0864
%RSD 14.7
Use Area

Peak Name: 4-Amino-26-dinitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 197.02/167.00 amu

Fit Mean Response Factor weighting
Factor 0.932
Standard deviation 0.103
%RSD 11
Use Area

None Iterate No

Peak Name: 2-Amino-46-dinitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 197.02/180.00 amu

Fit Mean Response Factor weighting
Factor 0.0302
Standard deviation 0.00131
%RSD 4.34
Use Area

None Iterate No

Peak Name: 2-Nitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 137.00/46.00 amu

Fit Mean Response Factor weighting
Factor 0.017
Standard deviation 0.000814
%RSD 4.8
Use Area

None Iterate No

Peak Name: 4-Nitrotoluene
Internal Standard: 26-Dinitrotoluene-d3
Q1/Q3 Masses: 137.00/46.00 amu

Fit Mean Response Factor weighting
Factor 0.00932
Standard deviation 0.000718
%RSD 7.7
Use Area

None Iterate No

031210ICAL

Peak Name: 3-Nitrotoluene
 Internal Standard: 26-Dinitrotoluene-d3
 Q1/Q3 Masses: 137.00/46.00 amu

Fit	Mean Response Factor	weighting
Factor	0.0104	
Standard deviation	0.00104	
%RSD	10.1	
Use Area		

None Iterate No

Peak Name: PETN
 Internal Standard: 26-Dinitrotoluene-d3
 Q1/Q3 Masses: 361.06/62.00 amu

Fit	Mean Response Factor	weighting
Factor	0.0114	
Standard deviation	0.000941	
%RSD	8.28	
Use Area		

None Iterate No

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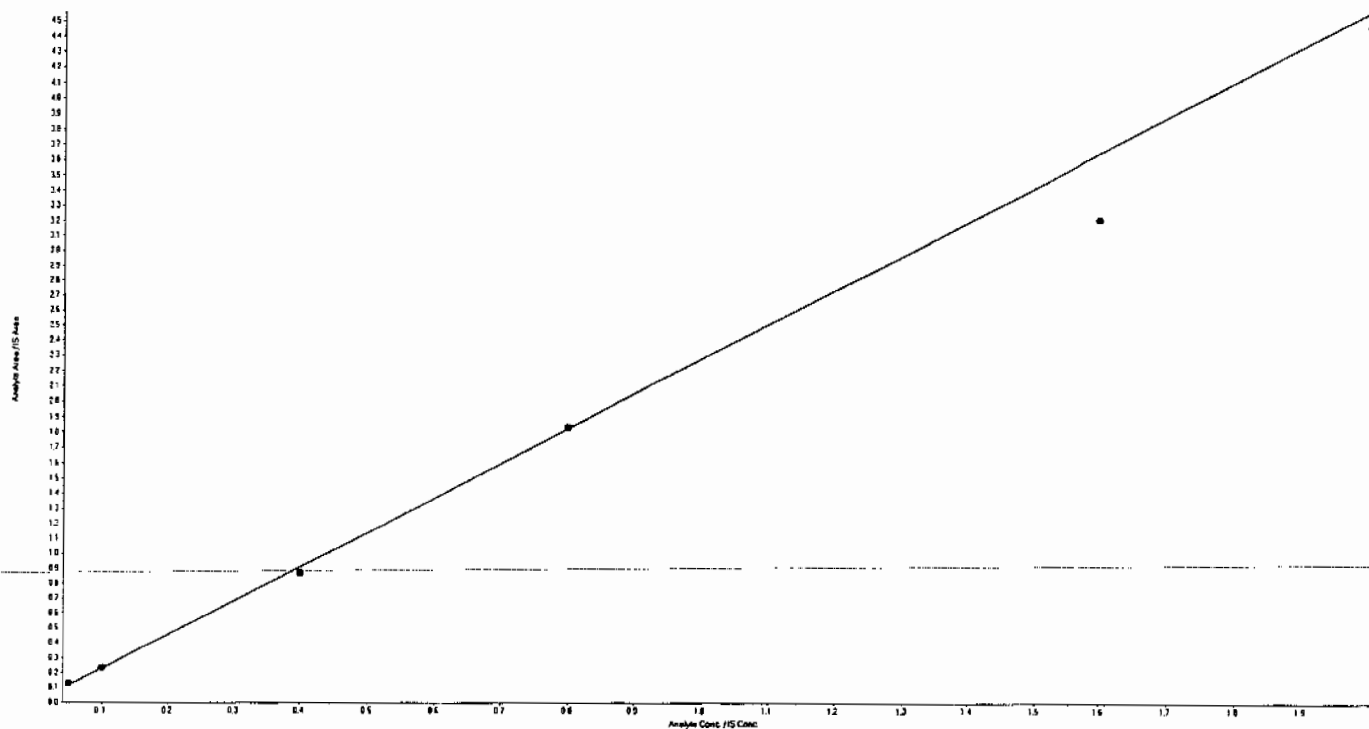
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LCMSMS#3

031210.rdb

Analyte Name: HMX

Regression Equation: $y = 2.28 x$ (std. dev. = 0.203)

Expected Concentration	Calculated Concentration	% Accuracy
25	28.64	114.5
50	51.82	103.6
200	190.62	95.3
400	401.94	100.5
800	703.74	88.0
1000	980.51	98.1



San
3/24/10

Hme
03/24/10

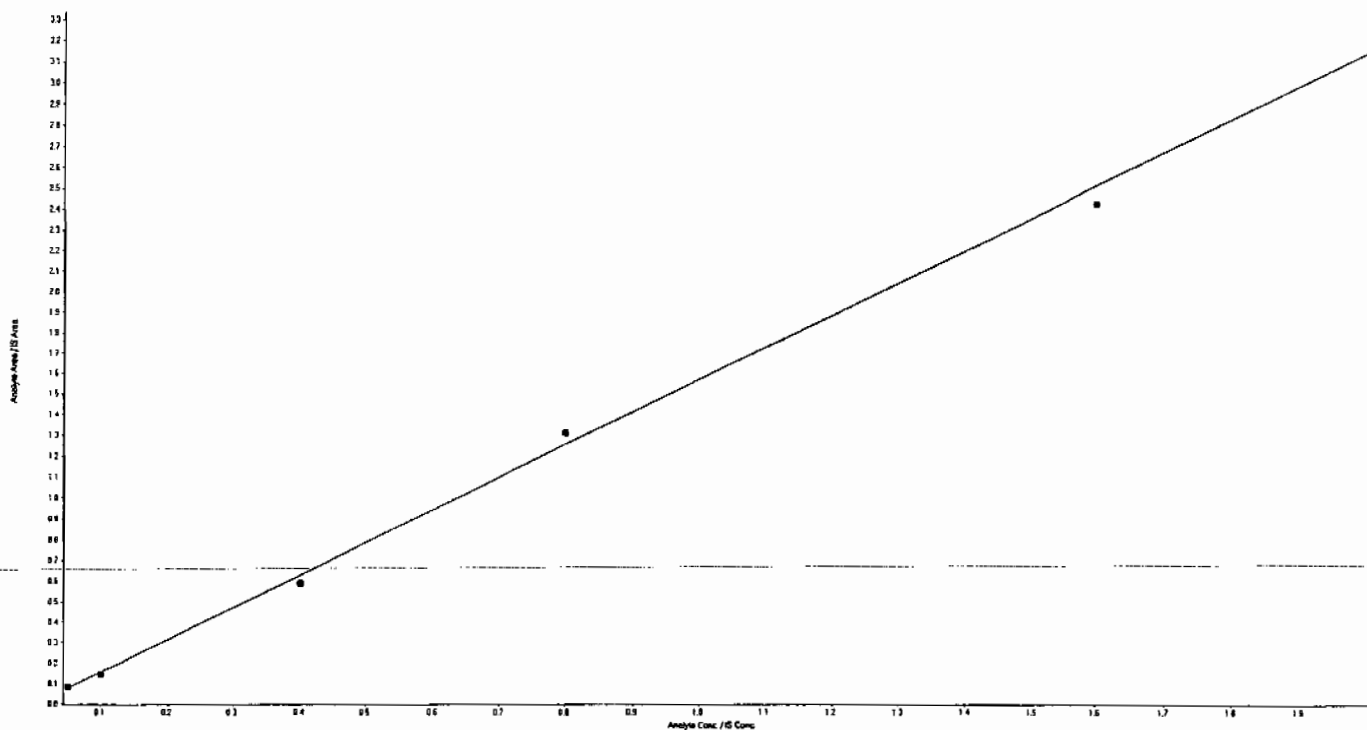
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Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Analyte Name: RDX

Regression Equation: $y = 1.57x$ (std. dev. = 0.1)

Expected Concentration	Calculated Concentration	% Accuracy
25	26.70	106.8
50	46.33	92.7
200	187.97	94.0
400	416.86	104.2
800	770.63	96.3
1000	1060.08	106.0



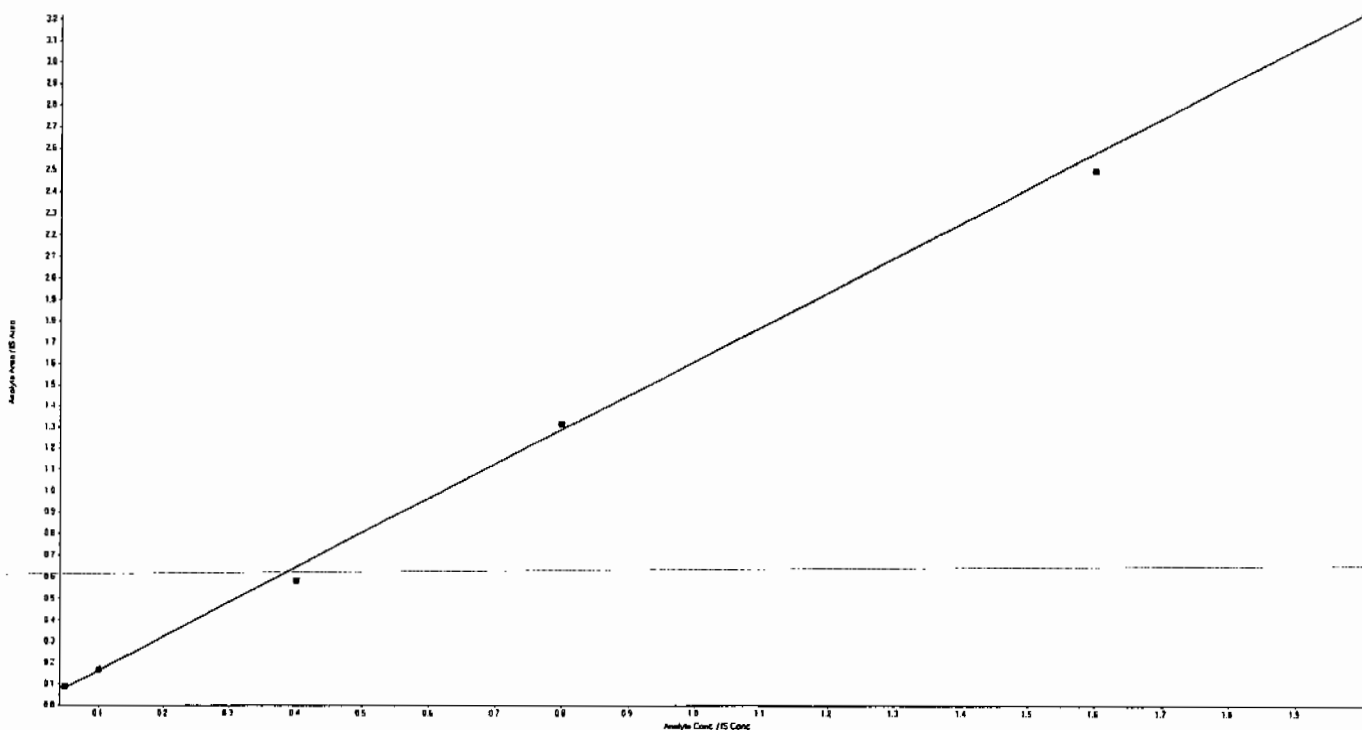
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Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Analyte Name: TNX

Regression Equation: $y = 1.61 x$ (std. dev. = 0.0959)

Expected Concentration	Calculated Concentration	% Accuracy
25	26.98	107.9
50	51.45	102.9
200	180.92	90.5
400	408.25	102.1
800	773.23	96.7
1000	1000.05	100.0



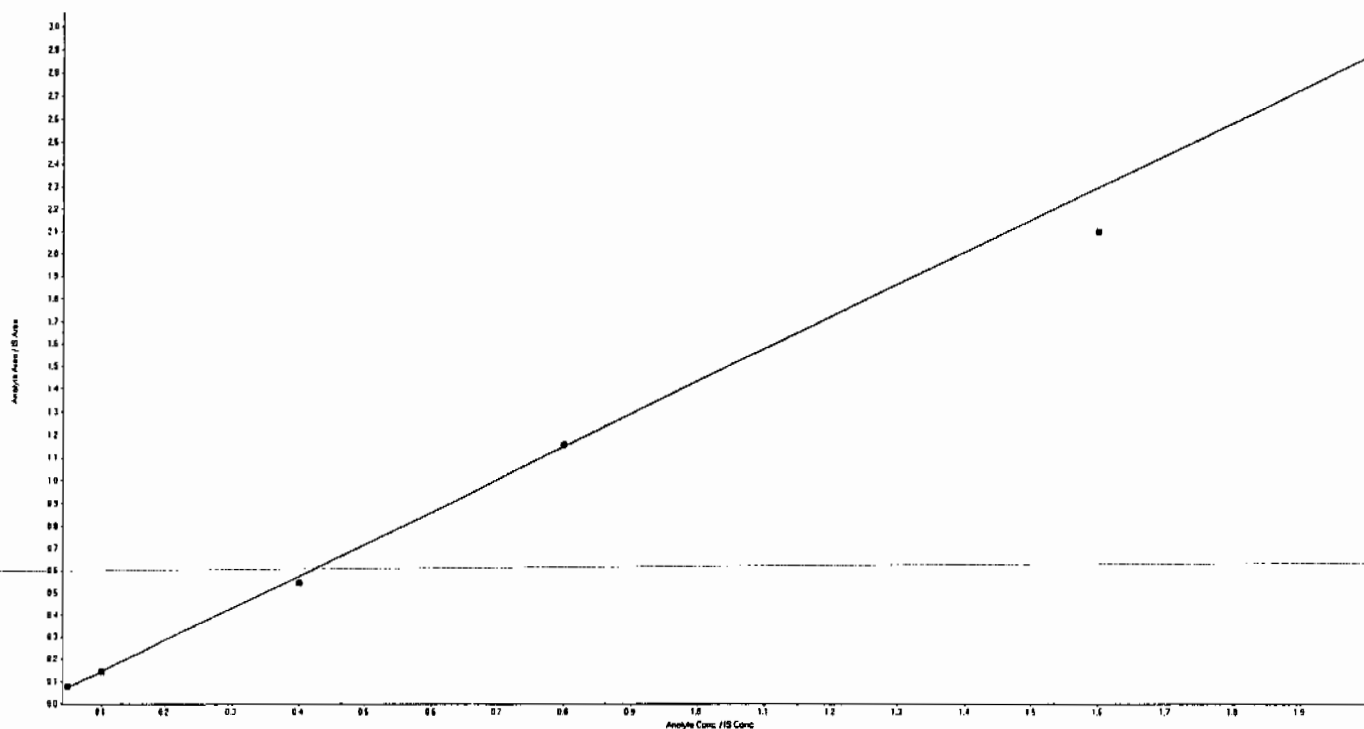
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Analyte Name: DNX

Regression Equation: $y = 1.43 x$ (std. dev. = 0.0891)

Expected Concentration	Calculated Concentration	% Accuracy
25	26.74	106.9
50	49.76	99.5
200	190.00	95.0
400	402.10	100.5
800	730.81	91.4
1000	1066.61	106.7



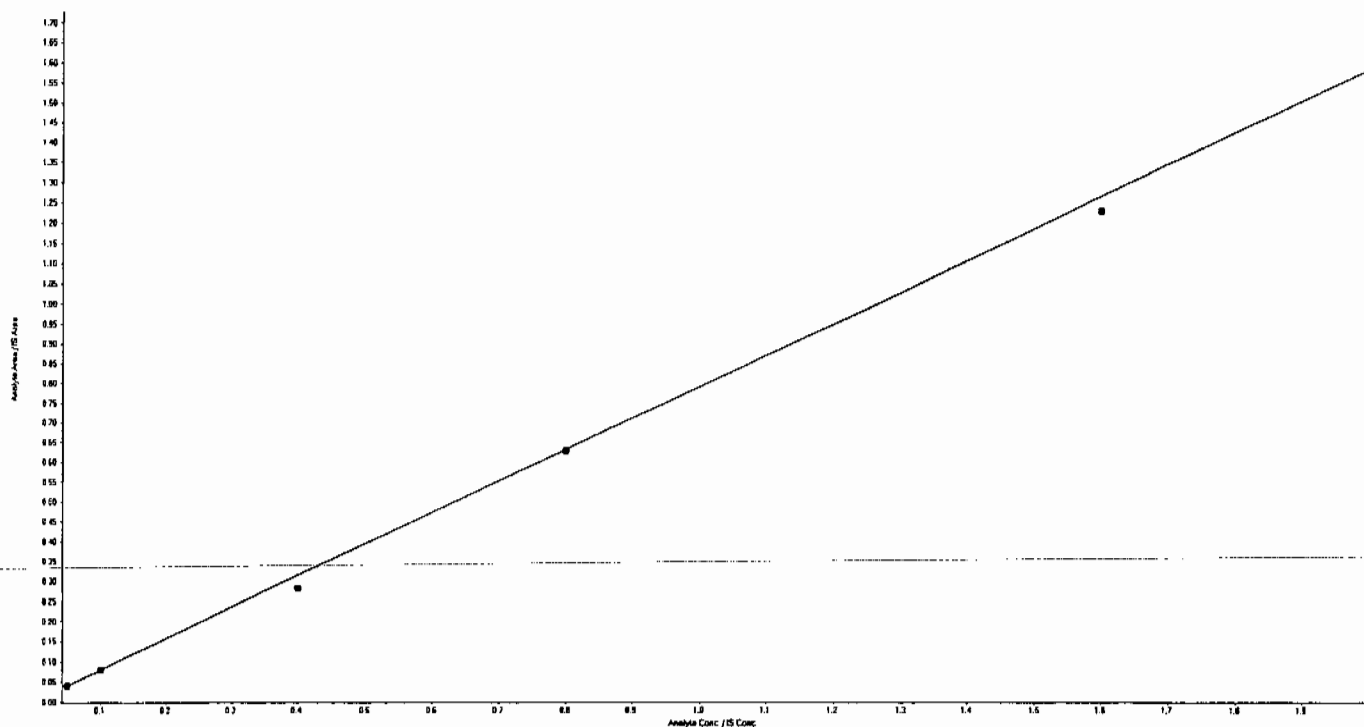
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Analyte Name: MNX

Regression Equation: $y = 0.79x$ (std. dev. = 0.0531)

Expected Concentration	Calculated Concentration	% Accuracy
25	26.09	104.4
50	50.16	100.3
200	179.22	89.6
400	397.23	99.3
800	775.87	97.0
1000	1094.31	109.4



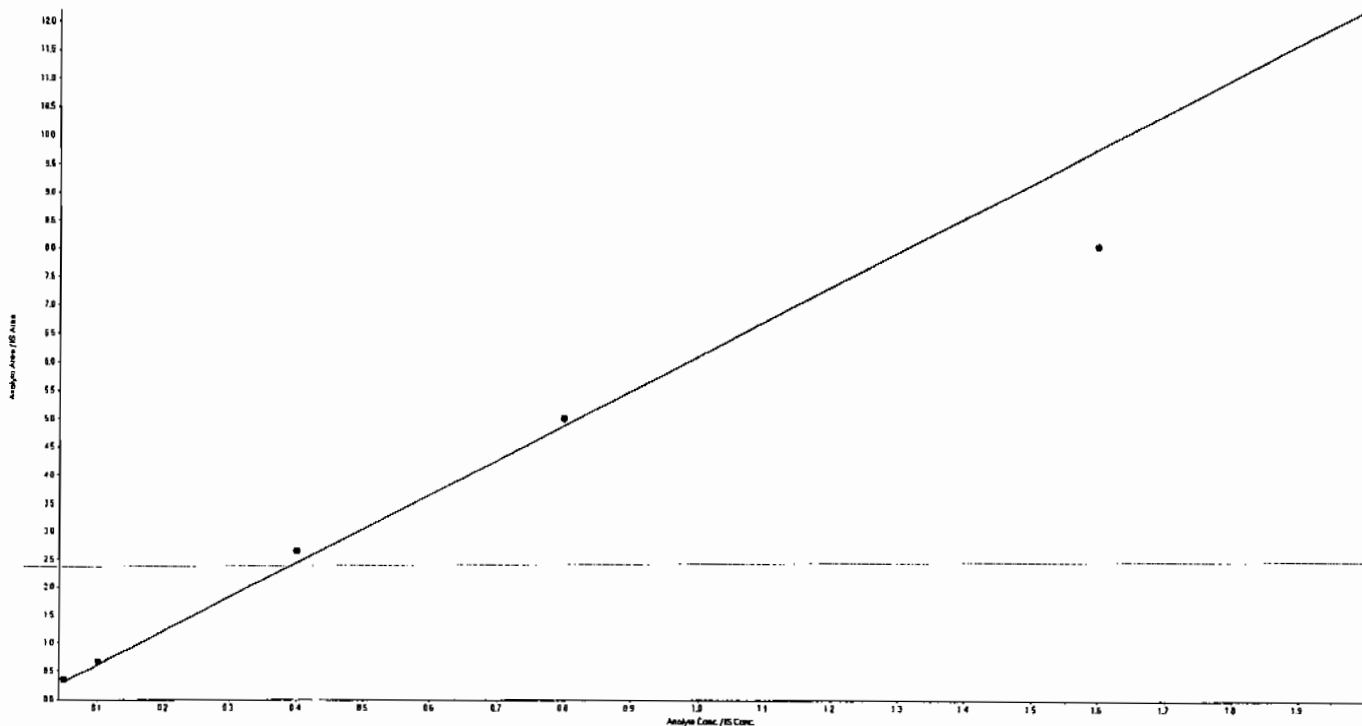
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Analyte Name: 135-Trinitrobenzene

Regression Equation: $y = 6.1 x$ (std. dev. = 0.82)

Expected Concentration	Calculated Concentration	% Accuracy
25	28.27	113.1
50	54.55	109.1
200	217.70	108.8
400	410.24	102.6
800	658.48	82.3
1000	841.02	84.1



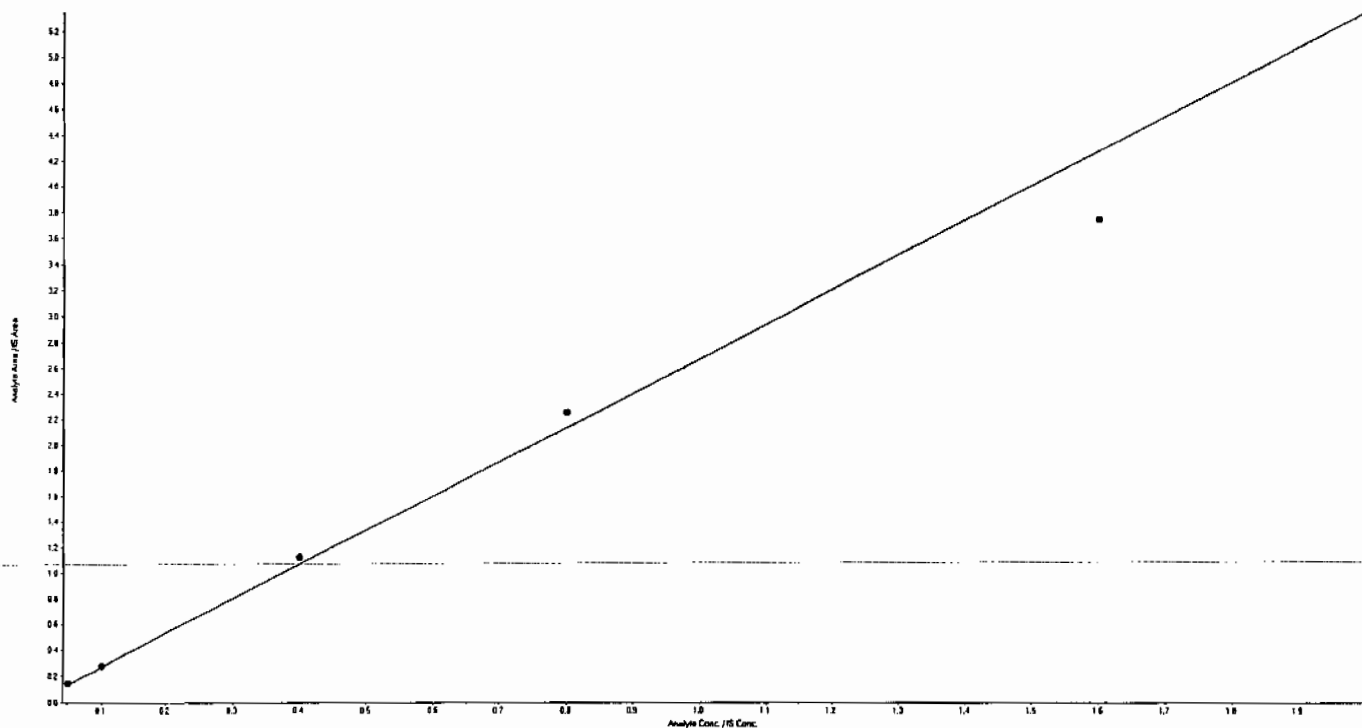
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Analyte Name: 13-Dinitrobenzene

Regression Equation: $y = 2.67x$ (std. dev. = 0.232)

Expected Concentration	Calculated Concentration	% Accuracy
25	27.14	108.5
50	51.33	102.7
200	209.92	105.0
400	422.29	105.6
800	700.35	87.5
1000	907.10	90.7



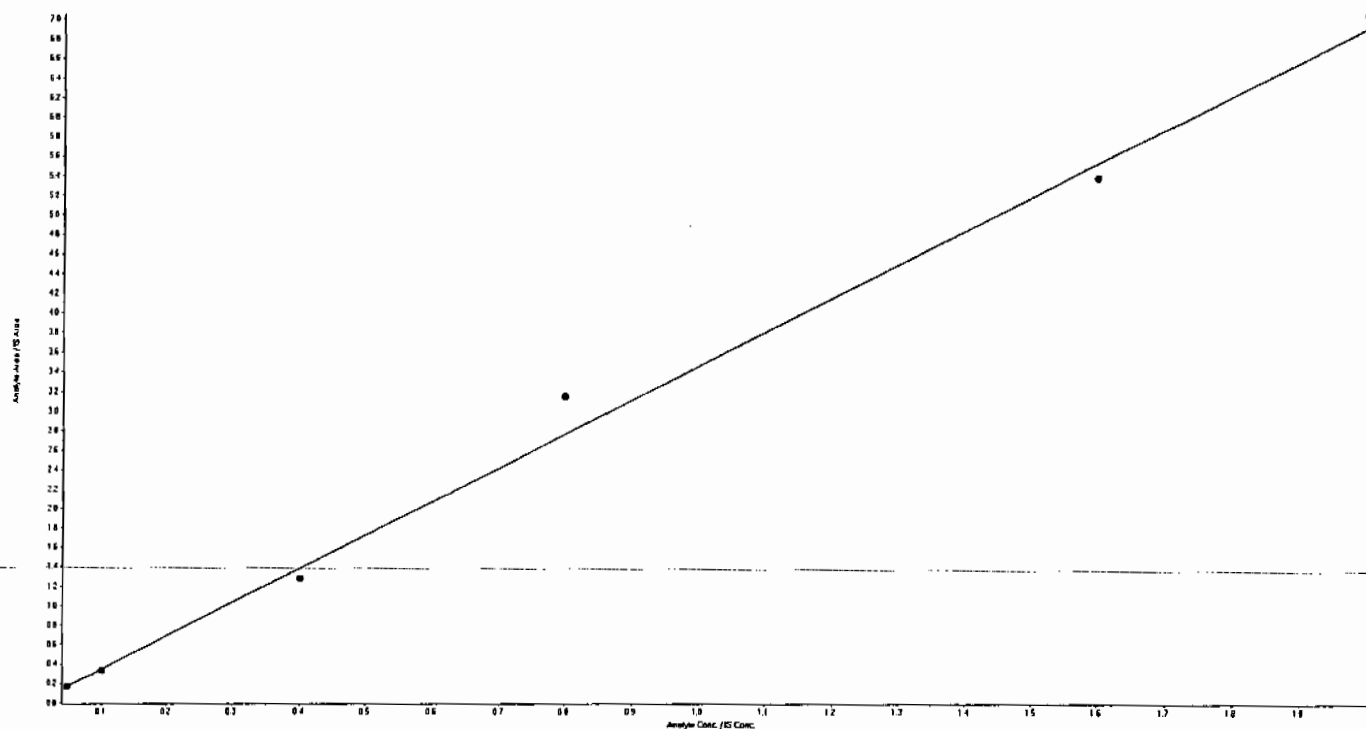
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Analyte Name: Tetryl

Regression Equation: $y = 3.46 x$ (std. dev. = 0.258)

Expected Concentration	Calculated Concentration	% Accuracy
25	24.75	99.0
50	47.79	95.6
200	185.03	92.5
400	455.23	113.8
800	777.90	97.2
1000	1018.66	101.9



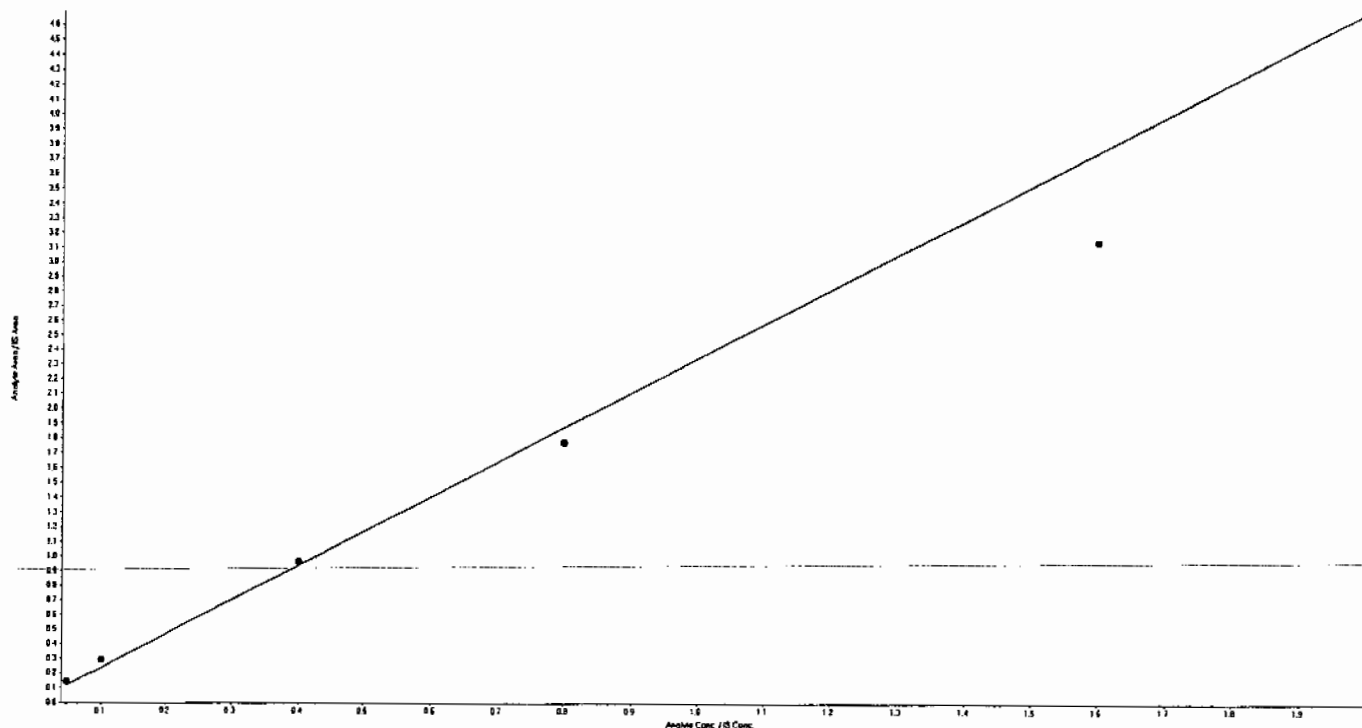
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Analyte Name: 246-Trinitrotoluene

Regression Equation: $y = 2.34 x$ (std. dev. = 0.453)

Expected Concentration	Calculated Concentration	% Accuracy
25	29.70	118.8
50	62.49	125.0
200	204.69	102.3
400	378.03	94.5
800	669.36	83.7
1000	757.03	75.7



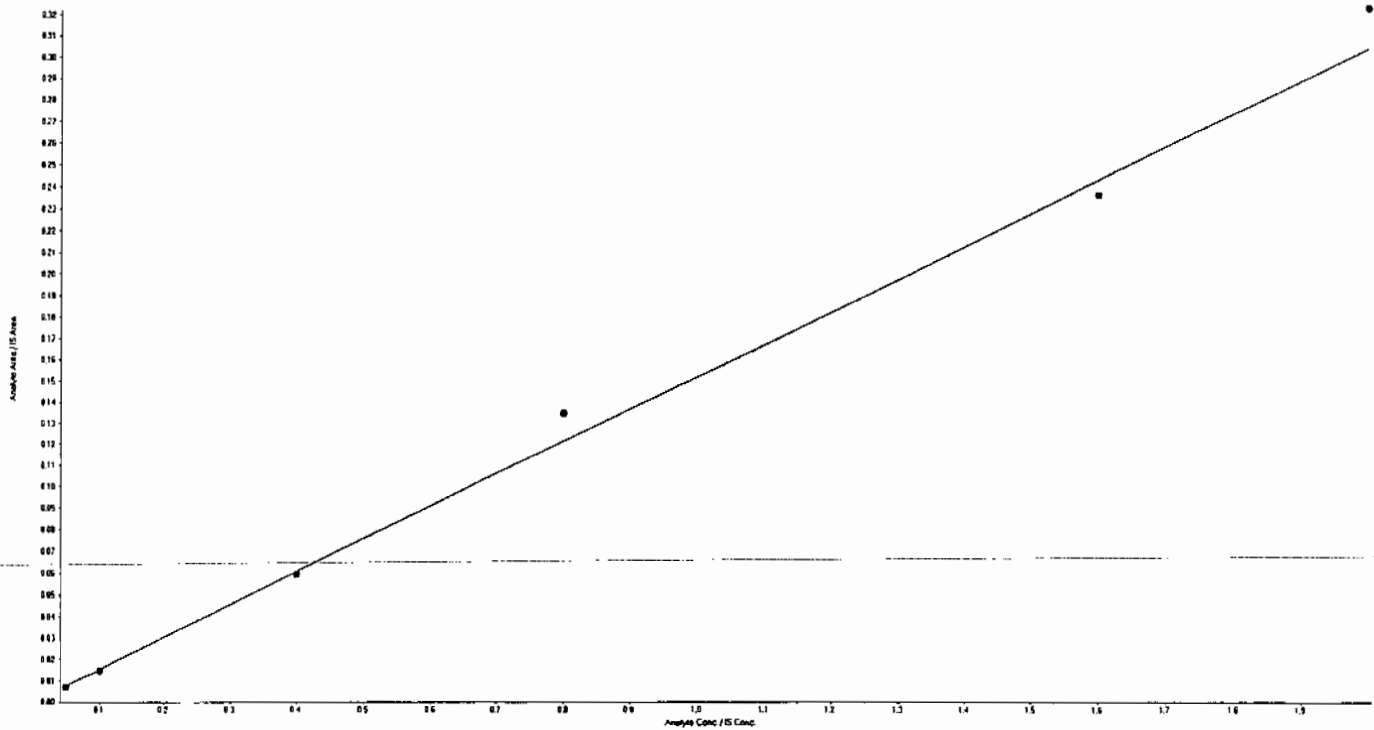
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Analyte Name: Nitrobenzene

Regression Equation: $y = 0.152 x$ (std. dev. = 0.0108)

Expected Concentration	Calculated Concentration	% Accuracy
25	22.87	91.5
50	48.39	96.8
200	195.02	97.5
400	443.57	110.9
800	776.99	97.1
1000	1062.07	106.2



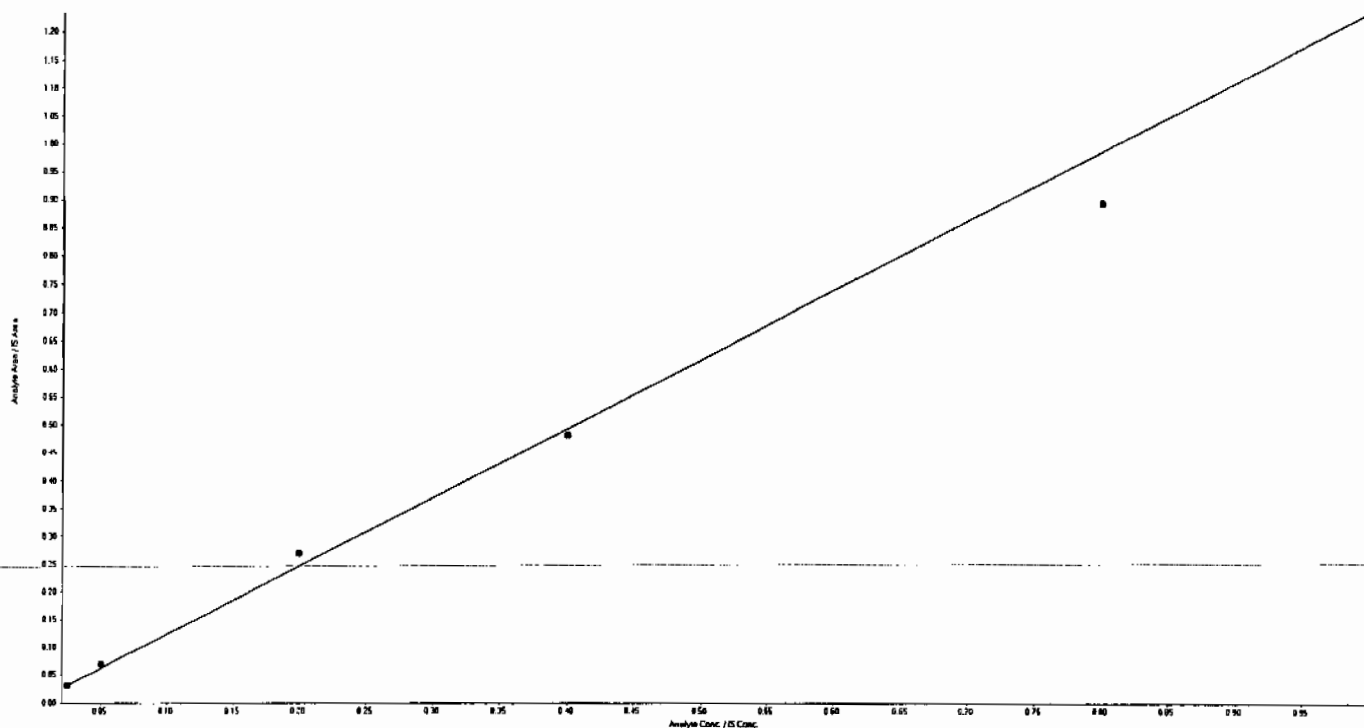
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Analyte Name: 34-dinitrotoluene

Regression Equation: $y = 1.23 x$ (std. dev. = 0.133)

Expected Concentration	Calculated Concentration	% Accuracy
12.5	12.91	103.3
25	28.40	113.6
100	109.30	109.3
200	195.22	97.6
400	361.96	90.5
500	428.63	85.7



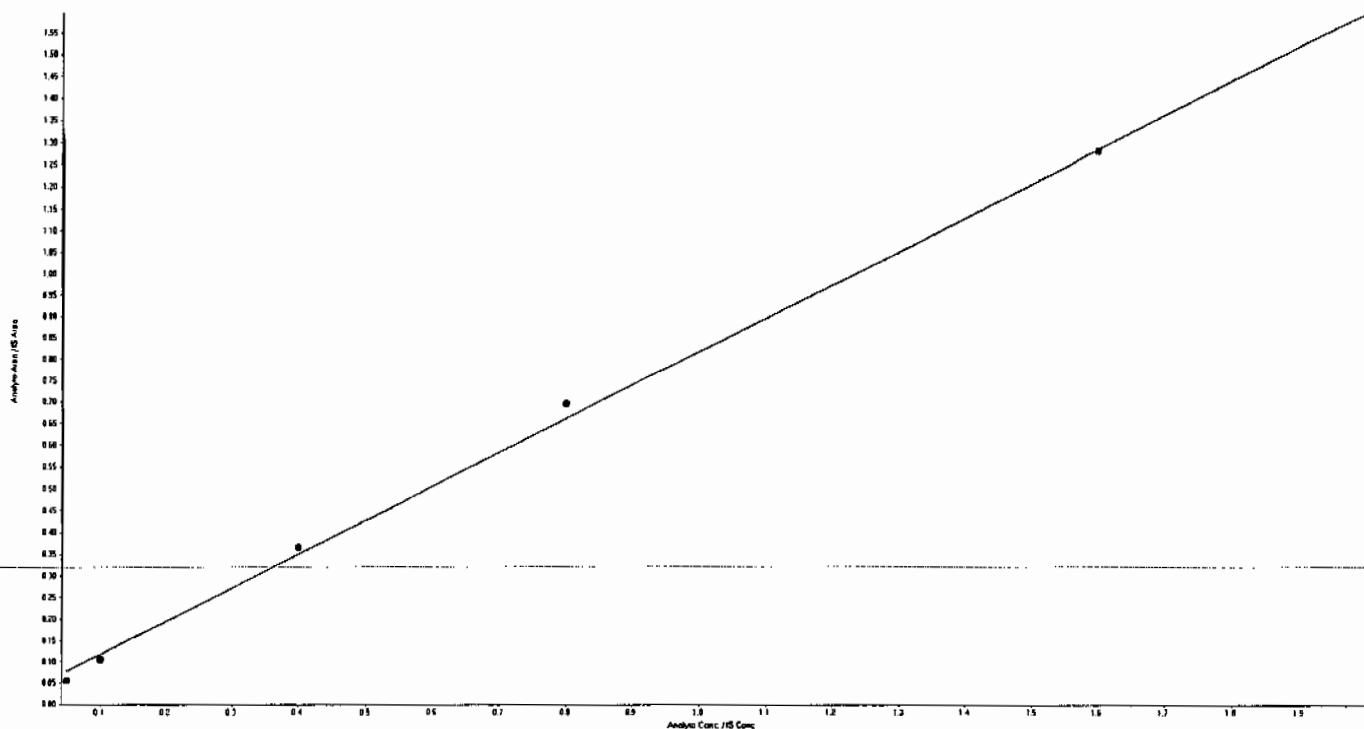
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Analyte Name: 26-dinitrotoluene

Regression Equation: $y = 0.778x + 0.039$ ($r = 0.9995$)

Expected Concentration	Calculated Concentration	% Accuracy
25	11.06	44.3
50	42.49	85.0
200	210.64	105.3
400	421.07	105.3
800	797.82	99.7
1000	991.91	99.2



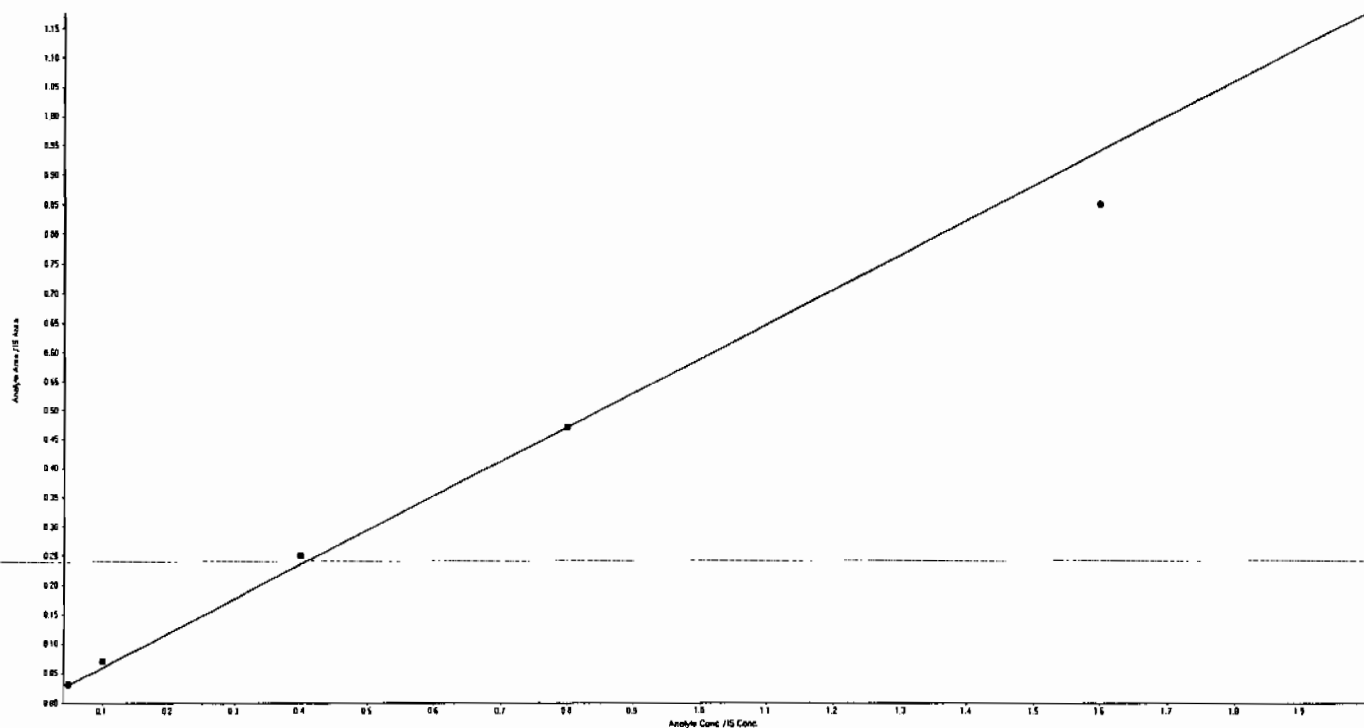
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Analyte Name: 24-dinitrotoluene

Regression Equation: $y = 0.588 x$ (std. dev. = 0.0864)

Expected Concentration	Calculated Concentration	% Accuracy
25	26.20	104.8
50	60.43	120.9
200	212.42	106.2
400	399.67	99.9
800	722.24	90.3
1000	779.31	77.9



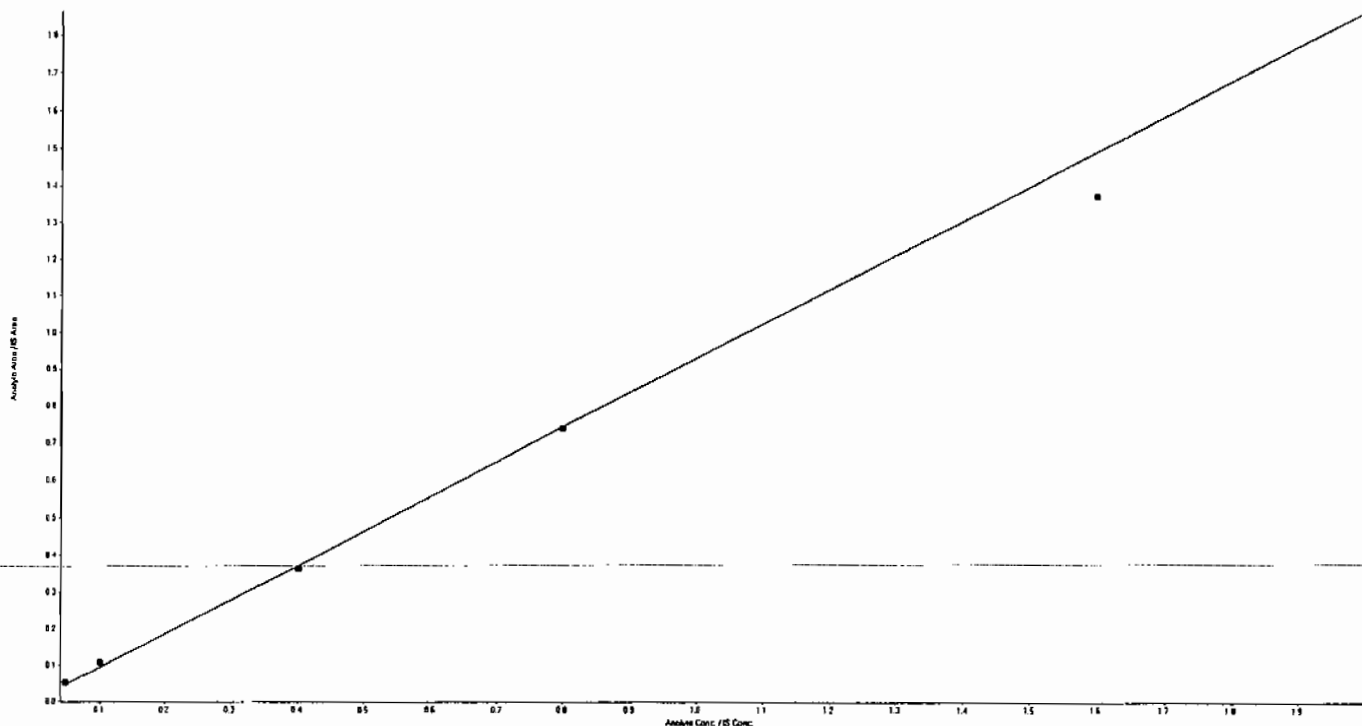
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Analyte Name: 4-Amino-2,6-dinitrotoluene

Regression Equation: $y = 0.932 x$ (std. dev. = 0.103)

Expected Concentration	Calculated Concentration	% Accuracy
25	27.80	111.2
50	57.16	114.3
200	195.22	97.6
400	397.29	99.3
800	736.08	92.0
1000	855.46	85.5



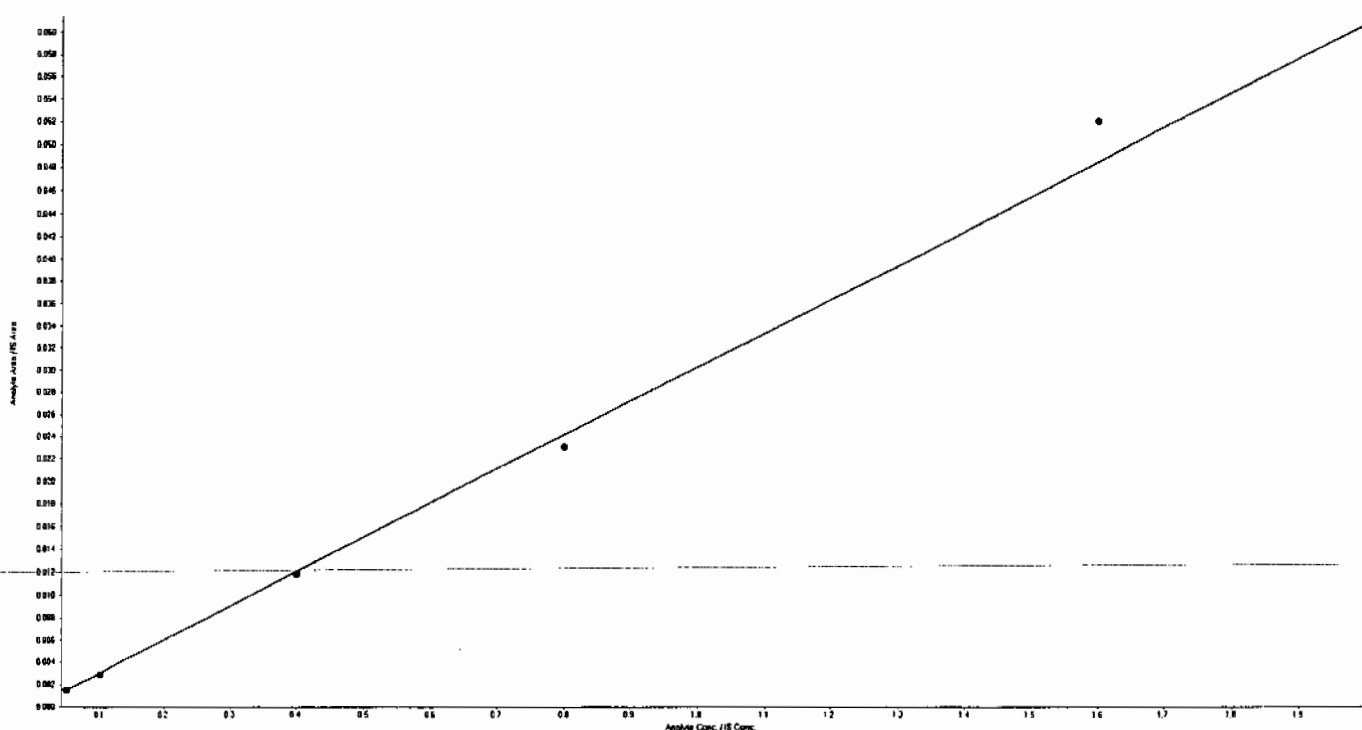
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Analyte Name: 2-Amino-4,6-dinitrotoluene

Regression Equation: $y = 0.0302x$ (std. dev. = 0.00131)

Expected Concentration	Calculated Concentration	% Accuracy
25	25.31	101.2
50	48.30	96.6
200	195.85	97.9
400	381.35	95.3
800	857.76	107.2
1000	1016.80	101.7



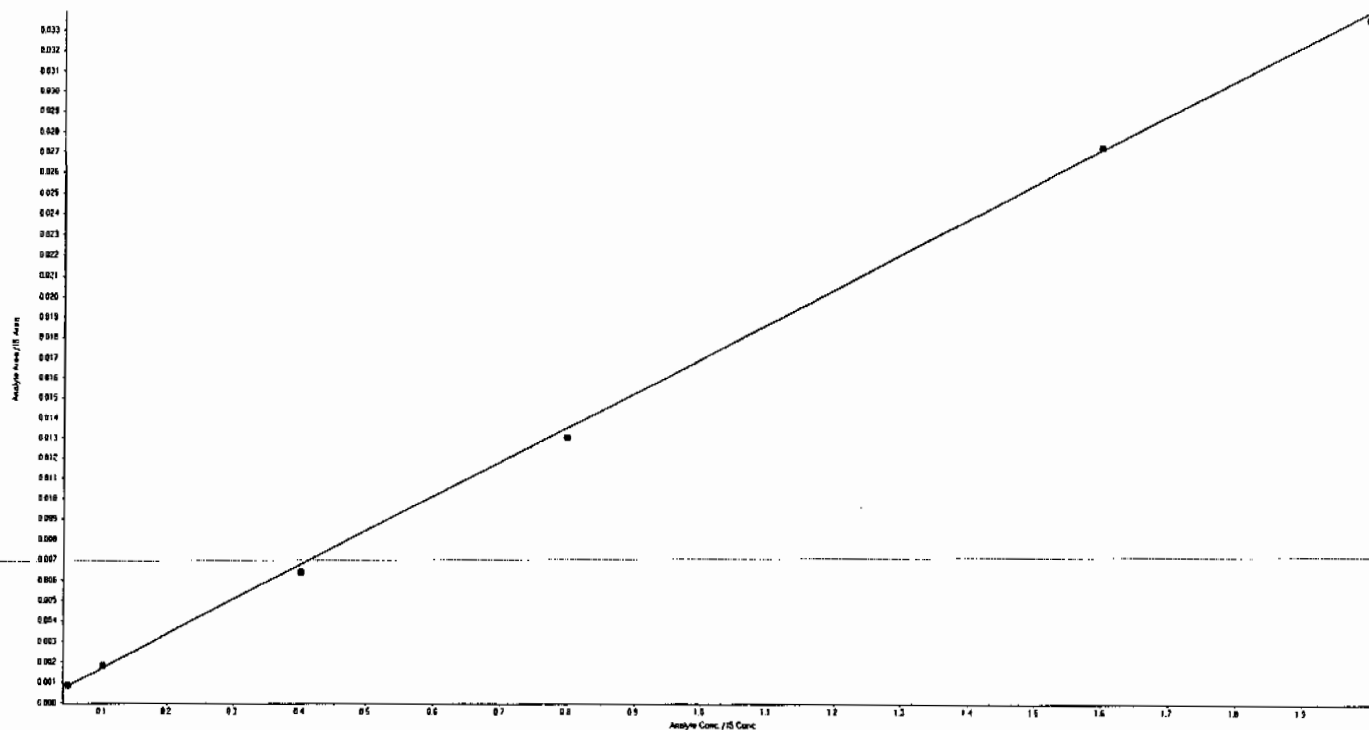
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Analyte Name: 2-Nitrotoluene

Regression Equation: $y = 0.017x$ (std. dev. = 0.000814)

Expected Concentration	Calculated Concentration	% Accuracy
25	25.52	102.1
50	54.00	108.0
200	188.51	94.3
400	385.70	96.4
800	802.14	100.3
1000	989.68	99.0



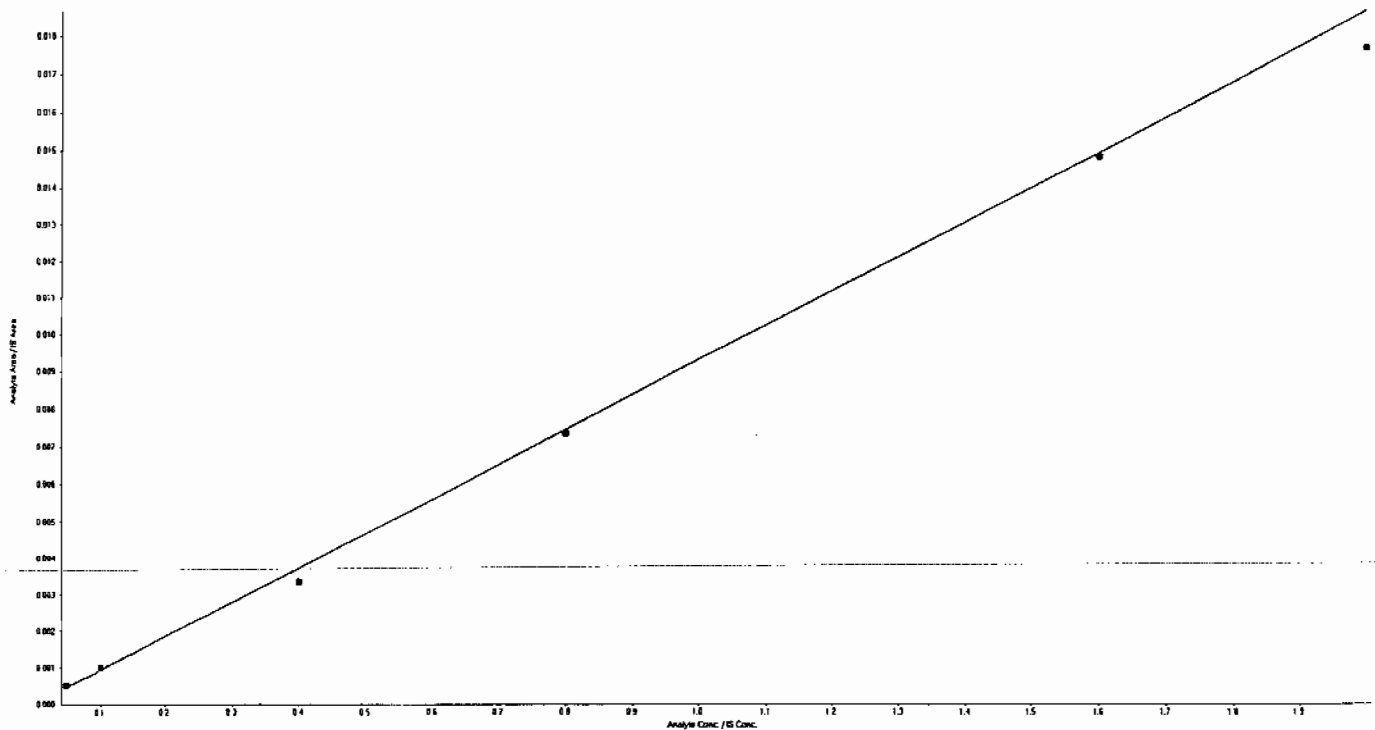
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Analyte Name: 4-Nitrotoluene

Regression Equation: $y = 0.00932 x$ (std. dev. = 0.000718)

Expected Concentration	Calculated Concentration	% Accuracy
25	27.41	109.6
50	54.05	108.1
200	179.27	89.6
400	394.54	98.6
800	793.85	99.2
1000	947.43	94.7



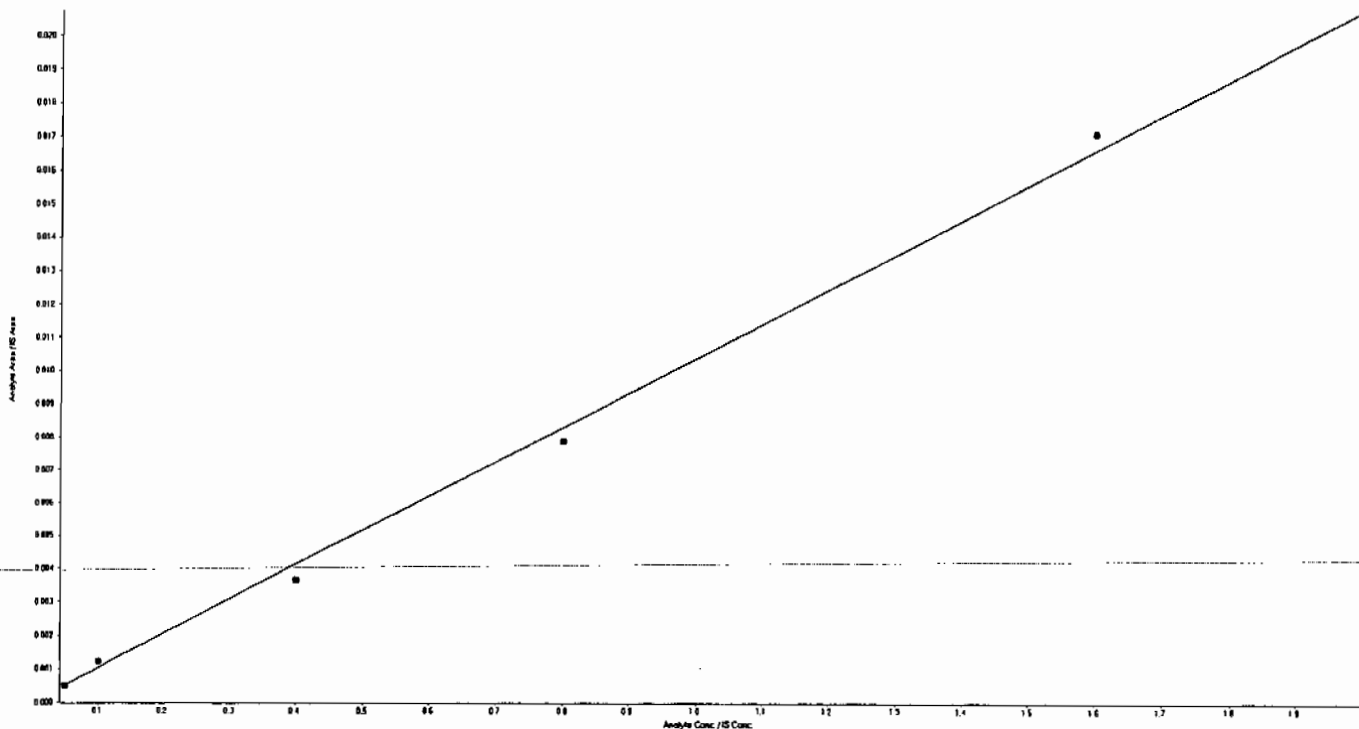
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Analyte Name: 3-Nitrotoluene

Regression Equation: $y = 0.0104 x$ (std. dev. = 0.00104)

Expected Concentration	Calculated Concentration	% Accuracy
25	24.71	98.8
50	58.91	117.8
200	175.68	87.8
400	378.67	94.7
800	822.83	102.9
1000	979.98	98.0



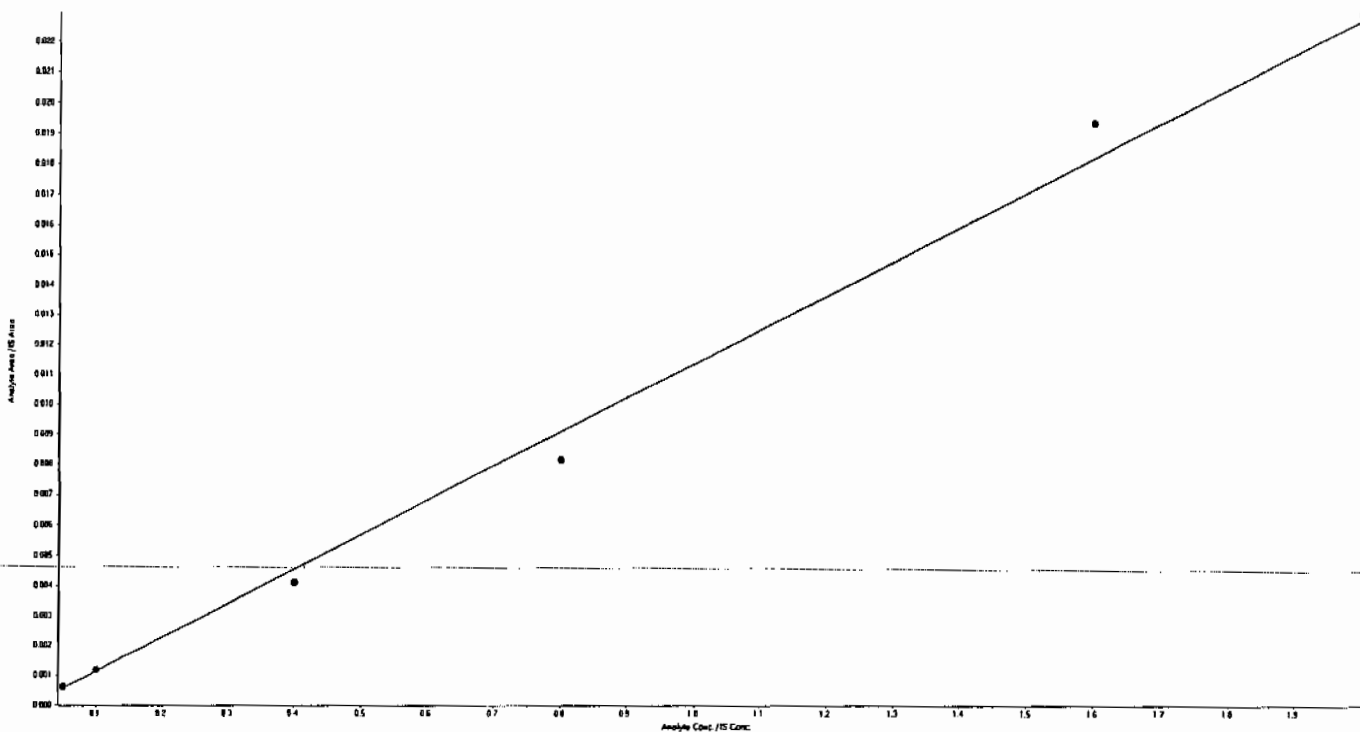
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Analyte Name: PETN

Regression Equation: $y = 0.0114 x$ (std. dev. = 0.000941)

Expected Concentration	Calculated Concentration	% Accuracy
25	27.25	109.0
50	51.97	103.9
200	180.38	90.2
400	358.30	89.6
800	851.00	106.4
1000	1009.08	100.9



GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0312010.wiff

Analysis Date: 12-MAR-10 11:56

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Dinitrotoluene	600	571	95	
2,6-Dinitrotoluene	600	624	104	
2-Amino-4,6-dinitrotoluene	600	676	113	
3,4-Dinitrotoluene	300	277	92	
4-Amino-2,6-dinitrotoluene	600	598	100	
DNX	600	611	102	
HMX	600	578	96	
MNX	600	643	107	
Nitrobenzene	600	639	106	
PETN	600	607	101	
RDX	600	626	104	
TNX	600	648	108	
Tetryl	600	697	116	
m-Dinitrobenzene	600	593	99	
m-Nitrotoluene	600	578	96	
o-Nitrotoluene	600	604	101	
p-Nitrotoluene	600	587	98	
1,3,5-Trinitrobenzene	600	580	97	
2,4,6-Trinitrotoluene	600	550	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%

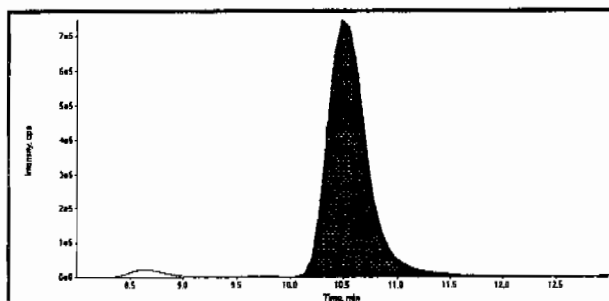
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

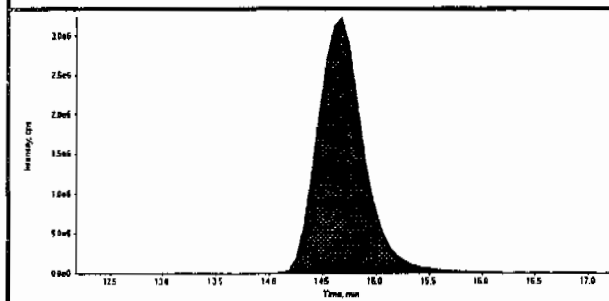
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

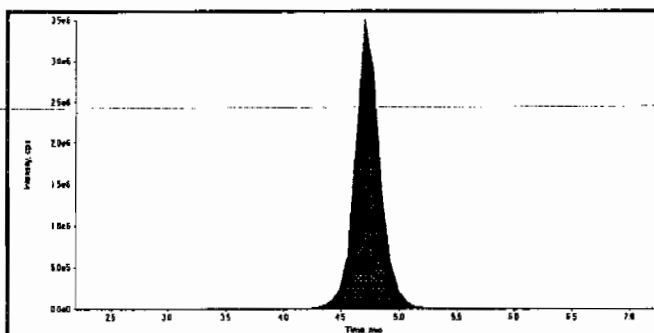
Data File	EXP0312010.wiff	Acquisition Date	3/12/2010 11:56:18 AM
Sample Name	WXX100312-56ICV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



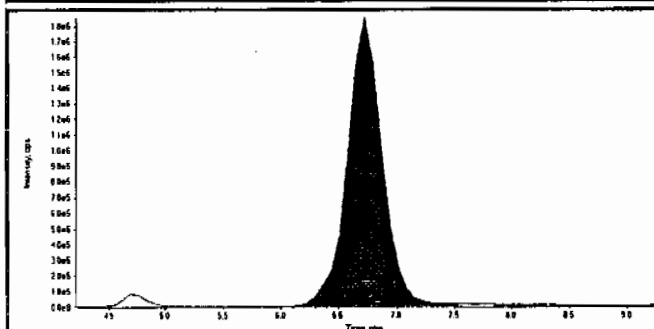
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.50
Area Counts:	19600000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.70
Area Counts:	98400000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.70
Area Counts:	5.16e+007
Manual Modification	No
Amount:	578. (ng/mL)
% Accuracy:	96.40



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.73
Area Counts:	3.85e+007
Manual Modification	No
Amount:	626. (ng/mL)
% Accuracy:	104.00

Handwritten:
03/24/10
LER
3/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312010.wiff	Acquisition Date	3/12/2010 11:56:18 AM
Sample Name	WXX100312-56ICV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LEB	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	4.08e+007
	Manual Modification	No
	Amount:	648. (ng/mL)
	% Accuracy:	108.00

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.35
	Area Counts:	3.43e+007
	Manual Modification	No
	Amount:	611. (ng/mL)
	% Accuracy:	102.00

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.00
	Area Counts:	1.99e+007
	Manual Modification	No
	Amount:	643. (ng/mL)
	% Accuracy:	107.00

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	8.97
	Area Counts:	1.38e+008
	Manual Modification	No
	Amount:	580. (ng/mL)
	% Accuracy:	96.60

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312010.wiff	Acquisition Date	3/12/2010 11:56:18 AM
Sample Name	WXX100312-56ICV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

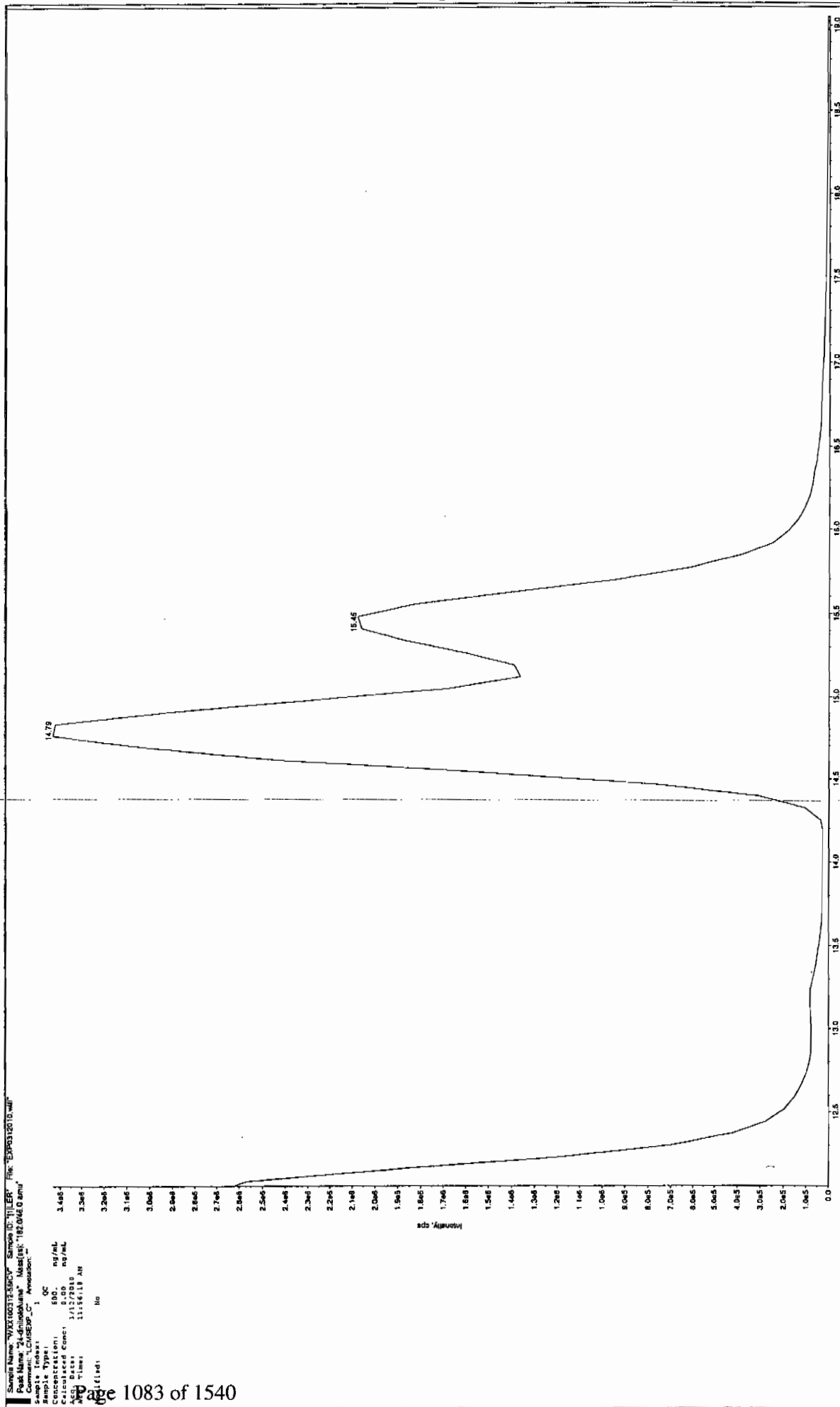
	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.6
	Area Counts:	6.20e+007
	Manual Modification	No
	Amount:	593. (ng/mL)
	% Accuracy:	98.80

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.7
	Area Counts:	9.43e+007
	Manual Modification	No
	Amount:	697. (ng/mL)
	% Accuracy:	116.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.1
	Area Counts:	2.54e+008
	Manual Modification	No
	Amount:	550. (ng/mL)
	% Accuracy:	91.60

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.8
	Area Counts:	3.79e+006
	Manual Modification	No
	Amount:	639. (ng/mL)
	% Accuracy:	106.00

Before Jan 3/24/10



GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312010.wiff	Acquisition Date	3/12/2010 11:56:18 AM
Sample Name	WXX100312-56ICV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.0
	Area Counts:	6.73e+007
	Manual Modification	No
	Amount:	277. (ng/mL)
	% Accuracy:	92.40

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	14.8
	Area Counts:	9.94e+007
	Manual Modification	No
	Amount:	624. (ng/mL)
	% Accuracy:	104.00

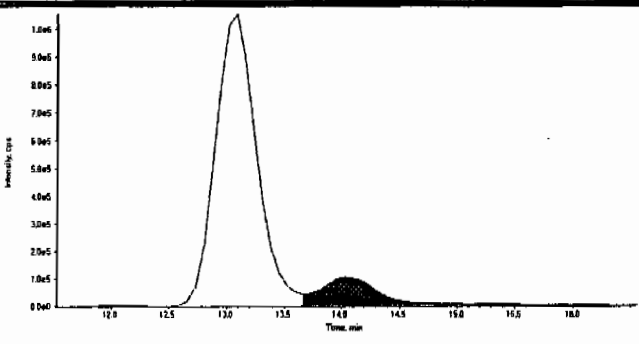
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.4
	Area Counts:	6.61e+007
	Manual Modification	Yes
	Amount:	571. (ng/mL)
	% Accuracy:	95.10

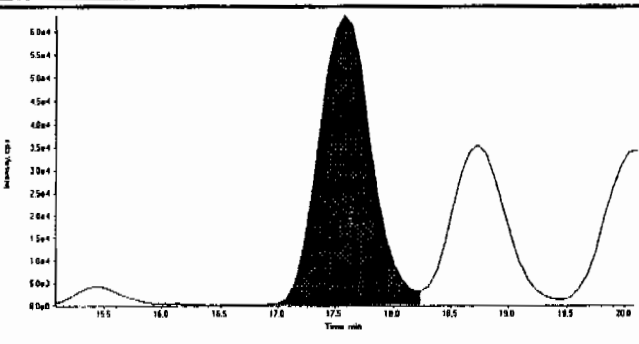
	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.1
	Area Counts:	1.10e+008
	Manual Modification	No
	Amount:	598. (ng/mL)
	% Accuracy:	99.60

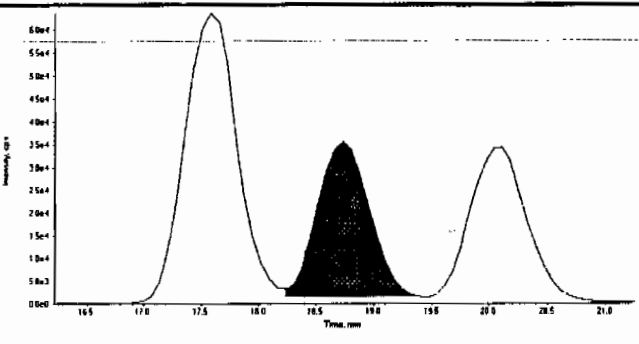
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

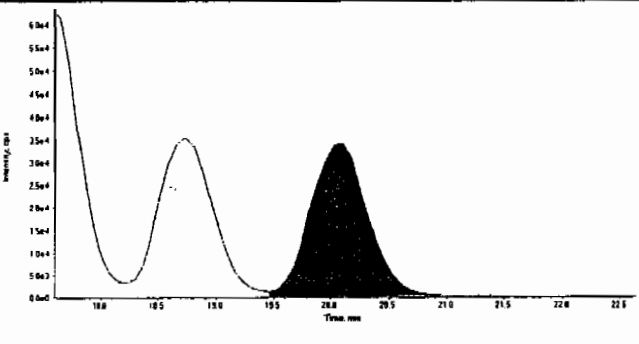
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LCMSMS#3

Data File	EXP0312010.wiff	Acquisition Date	3/12/2010 11:56:18 AM
Sample Name	WXX100312-56ICV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.0
	Area Counts:	4.02e+006
	Manual Modification	No
	Amount:	676. (ng/mL)
	% Accuracy:	113.00

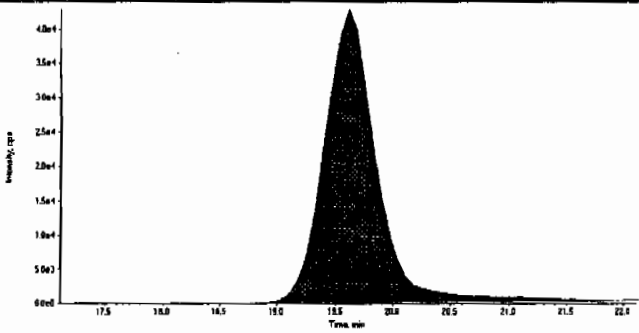
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.6
	Area Counts:	2.02e+006
	Manual Modification	No
	Amount:	604. (ng/mL)
	% Accuracy:	101.00

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	18.7
	Area Counts:	1.08e+006
	Manual Modification	No
	Amount:	587. (ng/mL)
	% Accuracy:	97.80

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.1
	Area Counts:	1.18e+006
	Manual Modification	No
	Amount:	578. (ng/mL)
	% Accuracy:	96.40

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312010.wiff	Acquisition Date	3/12/2010 11:56:18 AM
Sample Name	WXX100312-56ICV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.6
		Area Counts:	1.36e+006
		Manual Modification	No
		Amount:	607. (ng/mL)
		% Accuracy:	101.00

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/12/10
 Time of Injection 1156
 Standard Number WXX100312-56ICV
 Data File EXP0312010a

HMX	96.4
RDX	104.0
TNX	108.0
DNX	102.0
MXN	107.0
135-Trinitrobenzene	96.6
13-Dinitrobenzene	98.8
Tetryl	116.0
246-Trinitrotoluene	91.6
Nitrobenzene	106.0
34-dinitrotoluene	92.4
26-dinitrotoluene	90.9
24-dinitrotoluene	95.1
4-Amino-26-dinitrotoluene	99.6
2-Amino-46-dinitrotoluene	113.0
2-Nitrotoluene	101.0
4-Nitrotoluene	97.8
3-Nitrotoluene	96.4
PETN	101.0
TOTAL	1913.6

Amr 03/24/10

AVERAGE

✓100.7	ICV Limits 85-115%
	CRI Limits 70-130%
	CCV Limits 85-115%
No single analyte > +/- 60%	

Par
3/24/10

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1567

Lab Code: GEL

Run Date: 01-MAR-10.12-MAR-10

LCMSMS Instrument ID: LCMSMS4

Method: 8321A Modified

HPLC Column: YMC J-Sphere ODS-H8Q

Calibration Type: 2nd Order

Calibration Level:	19	20	21	22	23	24	25	X	X^2	Intercept	COD	Q
Data File:	EXS03010003.wif	EXS03010004.wif	EXS03010005.wif	EXS03010006.wif	EXS03010007.wif	EXS03010008.wif	EXS03010009.wif					
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

Jan
3/3/00

030110ICAL

Peak Name: TATB
No Internal Standard
Q1/Q3 Masses: 257.20/204.90 amu

Fit Quadratic weighting
a0 -1.42e+004
a1 1.19e+003
a2 0.0579
Correlation coefficient 0.9999
Use Area

None

Iterate No

Peak Name: 35-Dinitroaniline
No Internal Standard
Q1/Q3 Masses: 182.00/46.00 amu

Fit Quadratic weighting
a0 7.57e+004
a1 8.1e+003
a2 -0.824
Correlation coefficient 0.9998
Use Area

None

Iterate No

Peak Name: 34-Dinitrotoluene
No Internal Standard
Q1/Q3 Masses: 182.08/151.90 amu

Fit Quadratic weighting
a0 -7.79e+004
a1 1.31e+004
a2 -2.67
Correlation coefficient 0.9990
Use Area

None

Iterate No

Peak Name: 26-Diamino-4-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

Fit Quadratic weighting
a0 6.23e+003
a1 1.86e+003
a2 -0.0141
Correlation coefficient 0.9999
Use Area

None

Iterate No

Peak Name: 24-Diamino-6-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

03/04/00

Page 1

030110ICAL

Iterate No

None

weighting

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

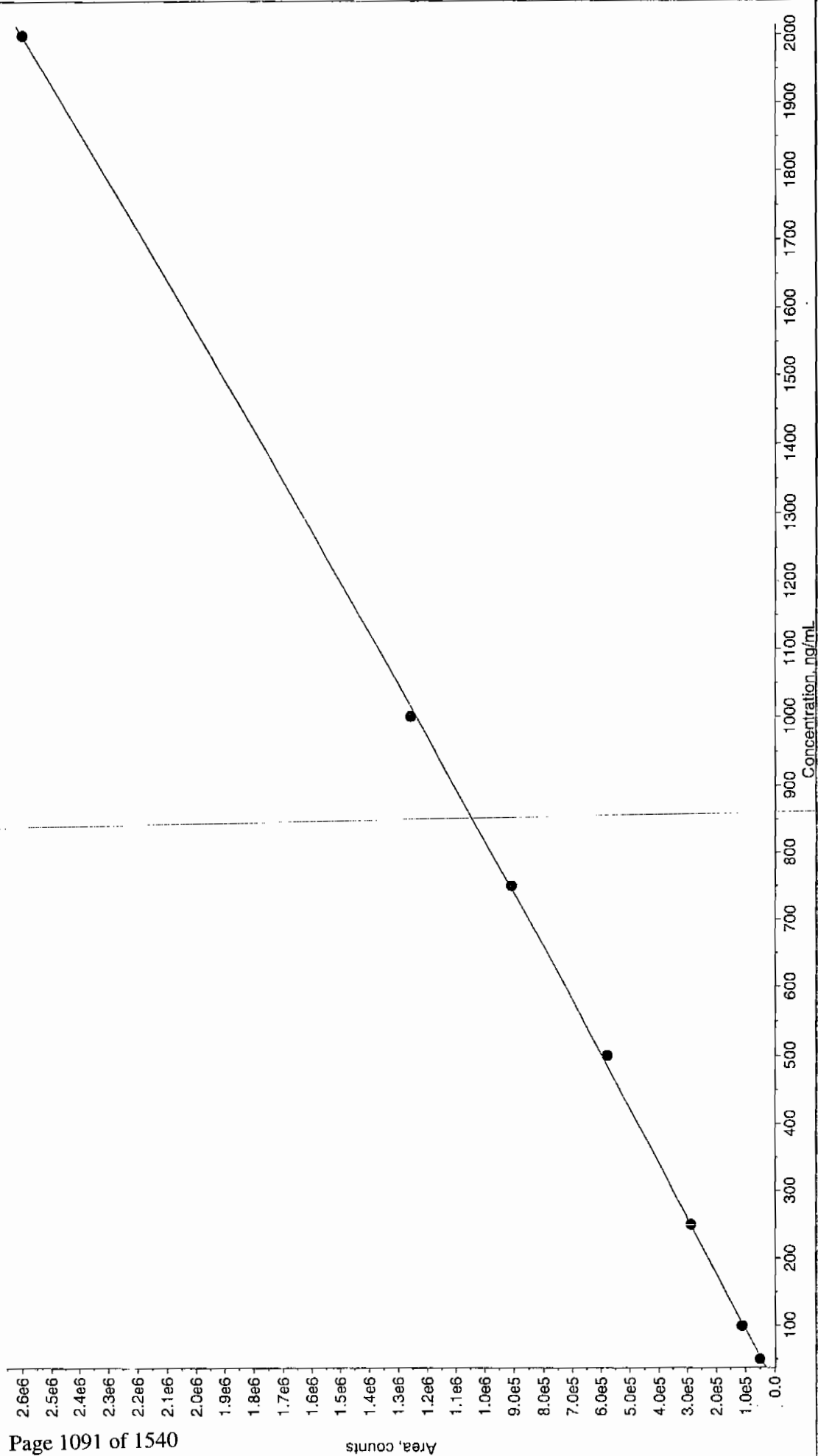
Iterate No

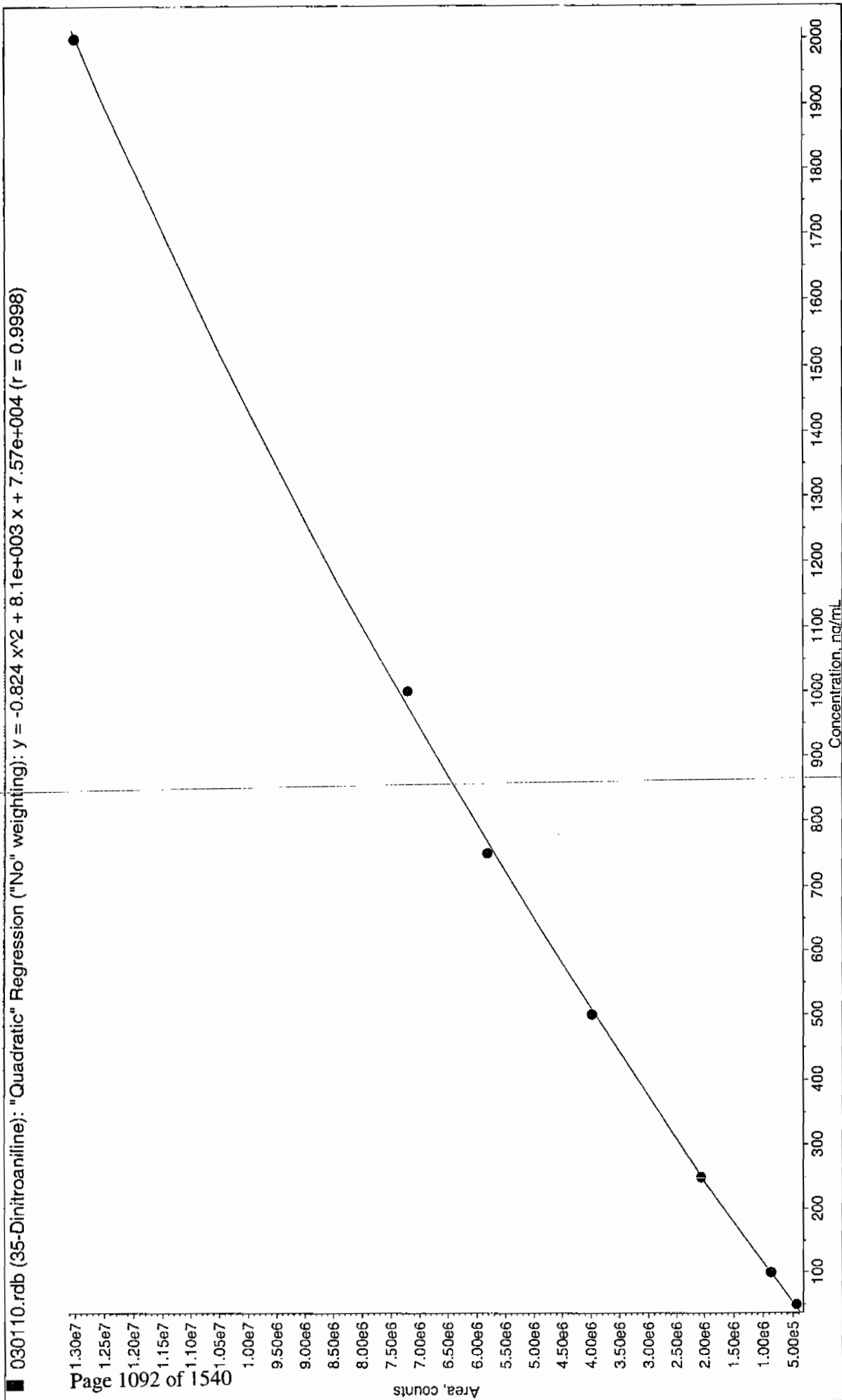
None

weighting

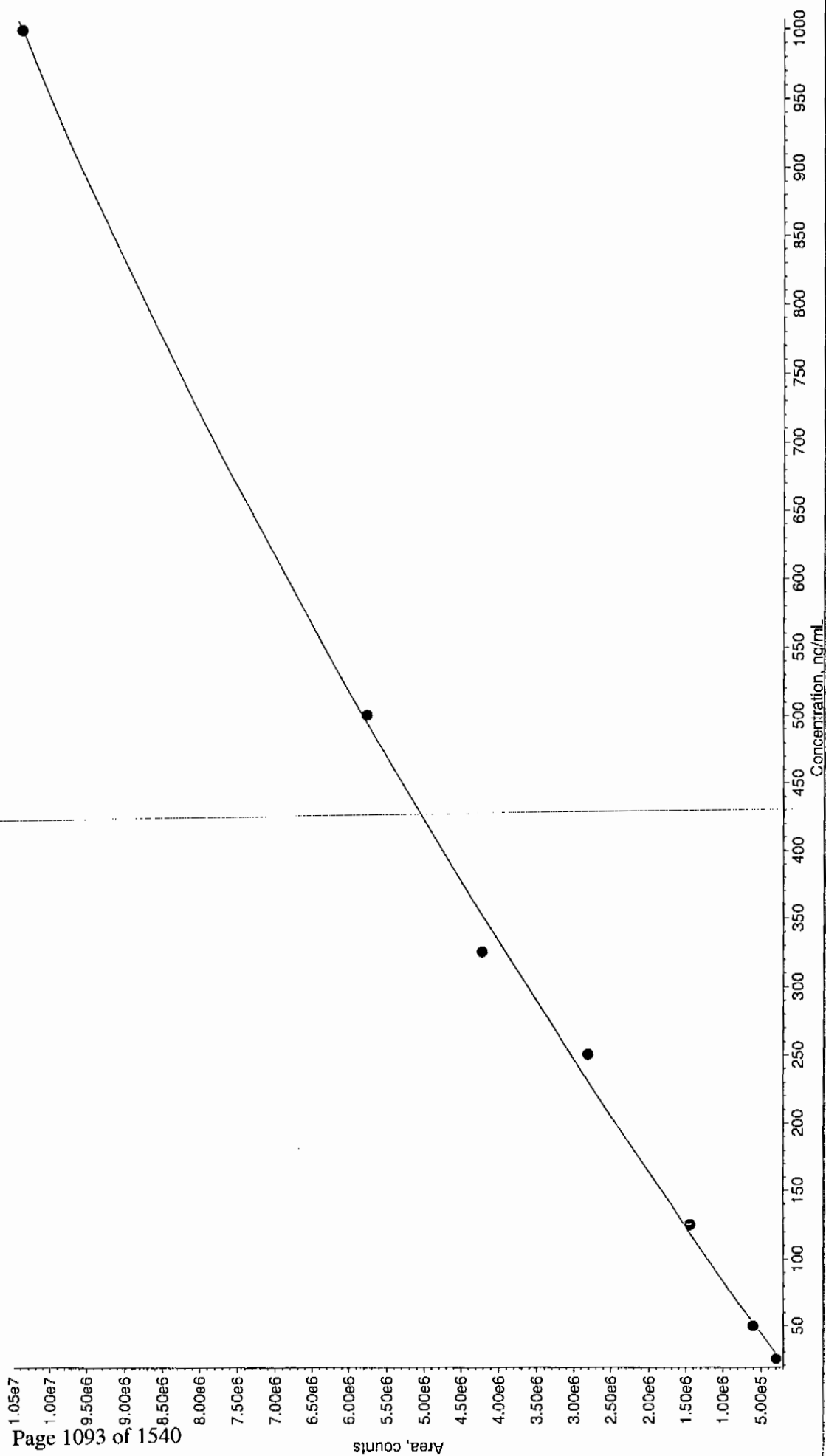
Fit Quadratic
a0 1.1e+005
a1 1.65e+004
a2 -2.25
Correlation coefficient 1.0000
Use Area

030110.rdb (TATB): "Quadratic" Regression ("No" weighting): $y = 0.0579 x^2 + 1.19e+003 x + -1.42e+004$ ($r = 0.9999$)

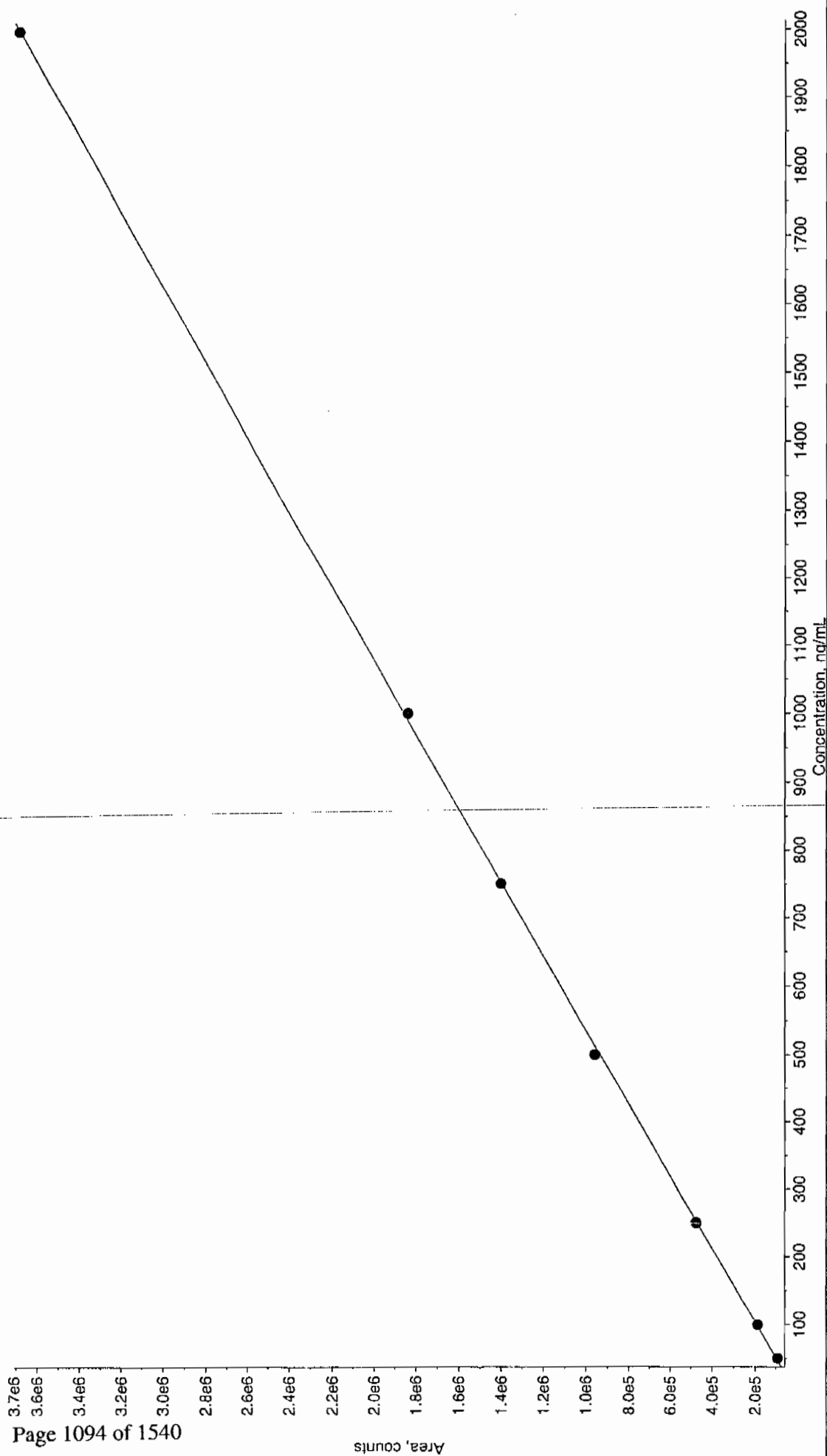




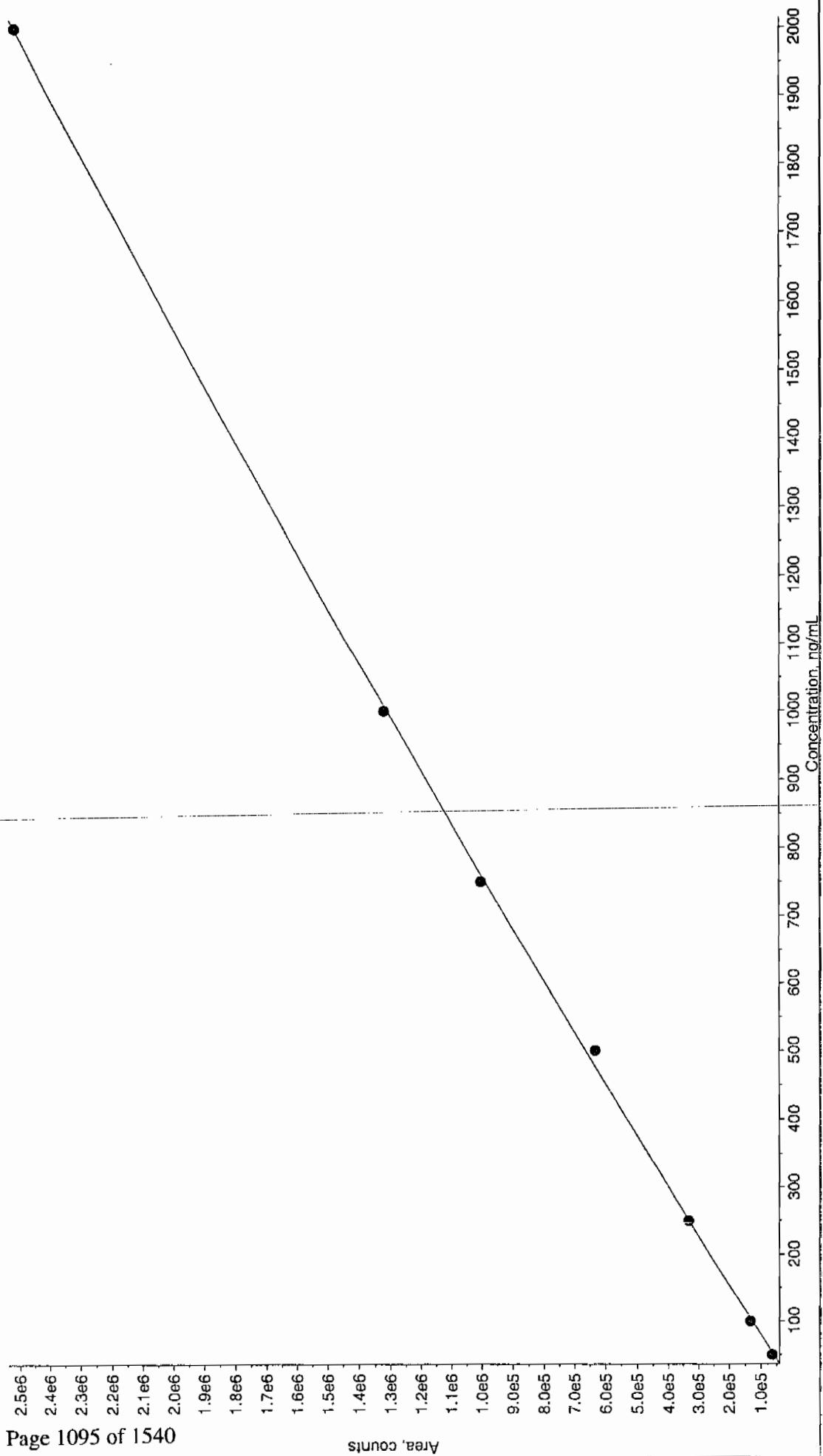
030110.rdb (34-Dinitrotoluene): "Quadratic" Regression ("No" weighting): $y = -2.67 x^2 + 1.31e+004 x + -7.79e+004$ ($r = 0.9990$)

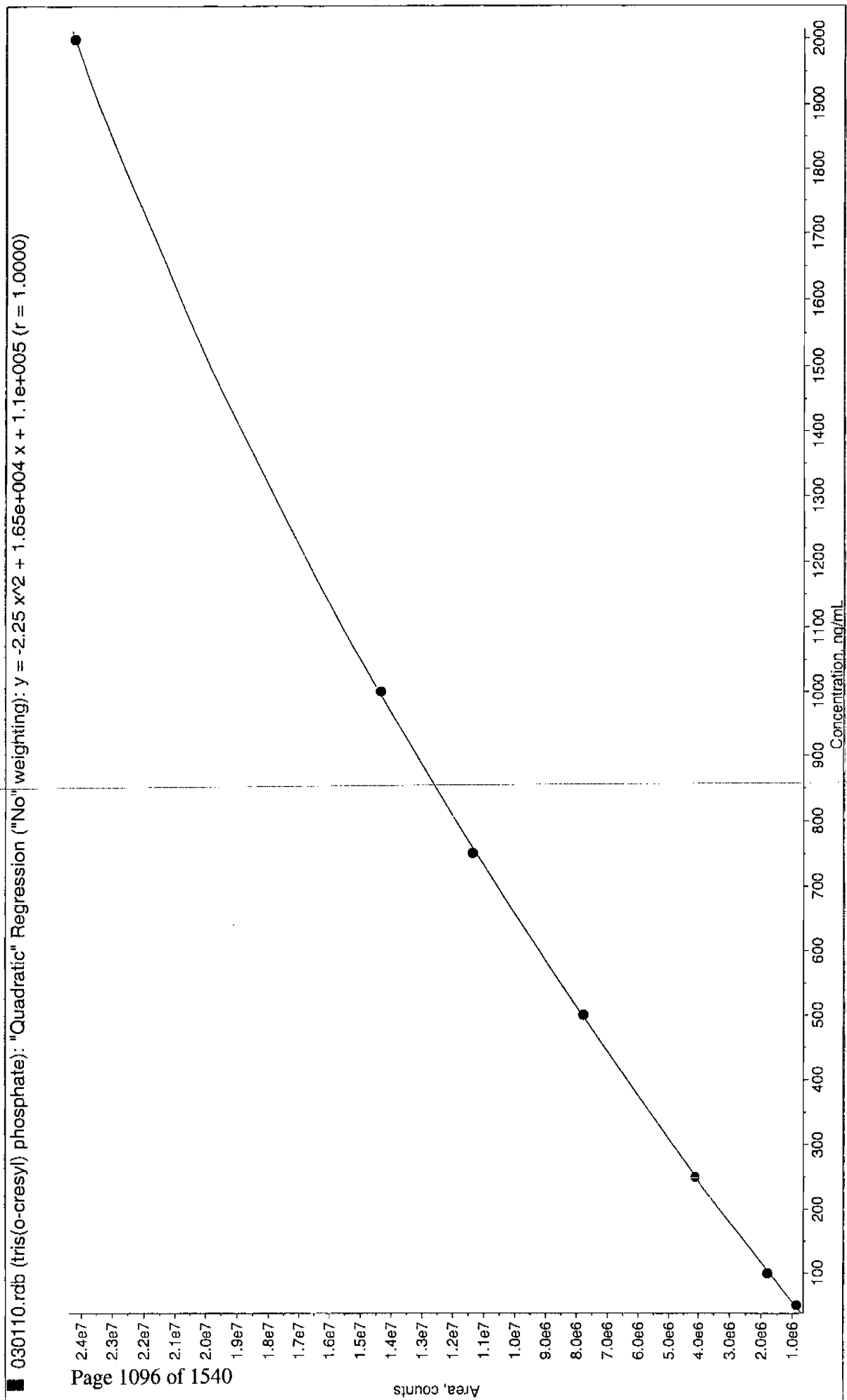


030110.rdb (26-Diamino-4-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = -0.0141 x^2 + 1.86e+003 x + 6.23e+003$ ($r = 0.9999$)



030110.rdb (24-Diamino-6-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = -0.0545 x^2 + 1.37e+003 x + -9.23e+003$ ($r = 0.9999$)





Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

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:

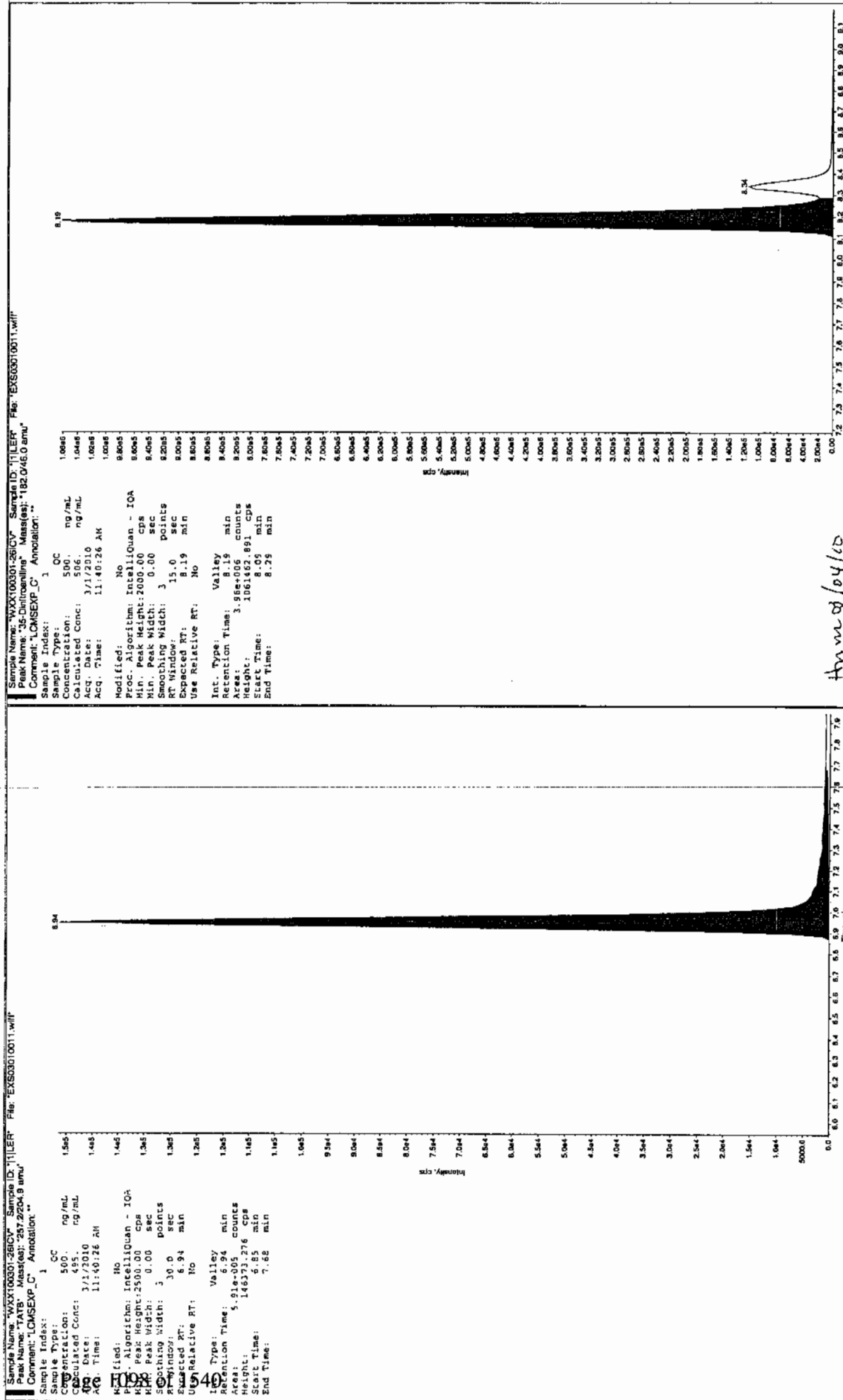
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

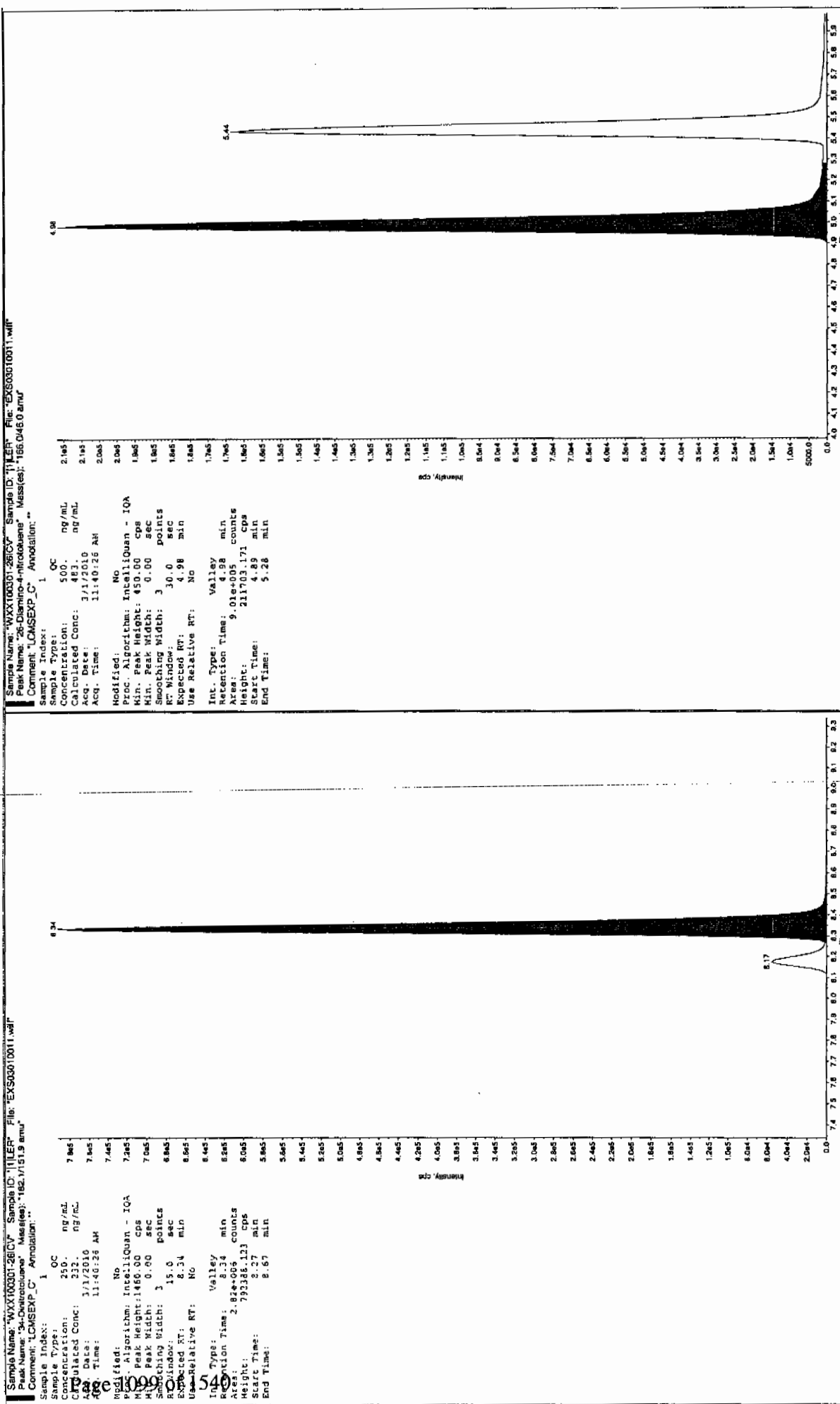
Column used to flag Recovery outside of Limits

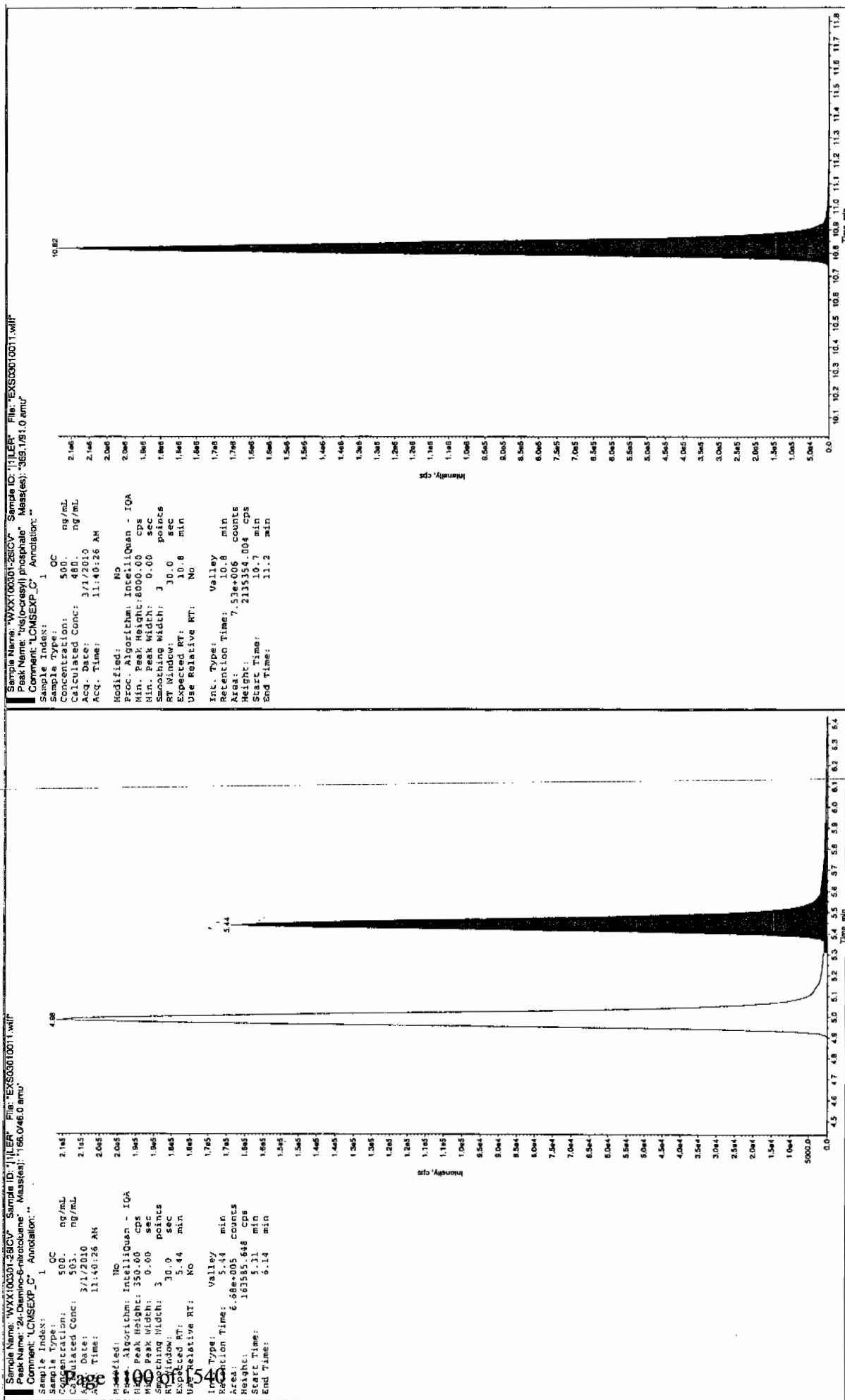
* Value outside of Recovery Limits

for 3/3/10



thru 10/04/10





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0312012.wiff

Analysis Date: 12-MAR-10 12:49

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
RDX	40	39.4	99	
TNX	40	41.7	104	
Tetryl	40	46.5	116	
m-Dinitrobenzene	40	42.4	106	
m-Nitrotoluene	40	39	98	
o-Nitrotoluene	40	40.7	102	
p-Nitrotoluene	40	38.4	96	
1,3,5-Trinitrobenzene	40	51.9	130	
2,4,6-Trinitrotoluene	40	54	135	
2,4-Dinitrotoluene	40	42.5	106	
2,6-Dinitrotoluene	40	34.7	87	
2-Amino-4,6-dinitrotoluene	40	34.3	86	
3,4-Dinitrotoluene	20	22.6	113	
4-Amino-2,6-dinitrotoluene	40	48.1	120	
DNX	40	40.2	101	
HMX	40	40.9	102	
MNX	40	39.8	100	
Nitrobenzene	40	39.9	100	
PETN	40	41.2	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%

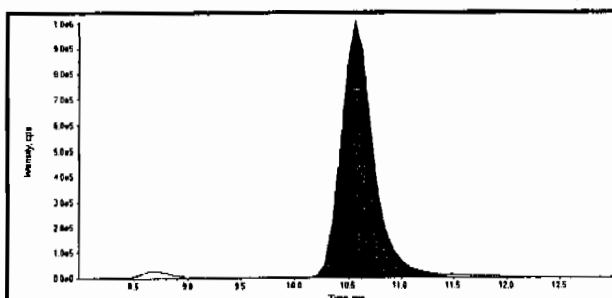
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

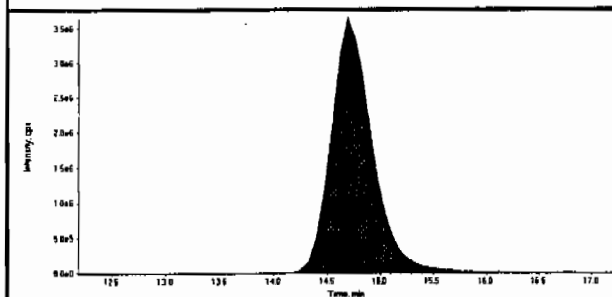
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

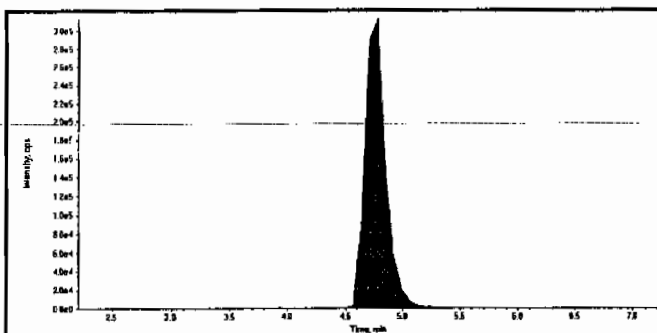
Data File	EXP0312012.wiff	Acquisition Date	3/12/2010 12:49:03 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



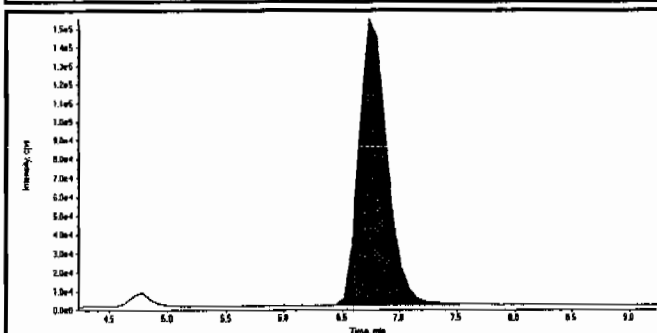
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	21600000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.70
Area Counts:	99300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.03e+006
Manual Modification	No
Amount:	40.9 (ng/mL)
% Accuracy:	102.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.73
Area Counts:	2.68e+006
Manual Modification	No
Amount:	39.4 (ng/mL)
% Accuracy:	98.60

Handwritten signatures and dates:
 03/24/10
 3/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312012.wiff	Acquisition Date	3/12/2010 12:49:03 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	2.90e+006
	Manual Modification	No
	Amount:	41.7 (ng/mL)
	% Accuracy:	104.00

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	2.49e+006
	Manual Modification	No
	Amount:	40.2 (ng/mL)
	% Accuracy:	101.00

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	1.36e+006
	Manual Modification	No
	Amount:	39.8 (ng/mL)
	% Accuracy:	99.60

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	8.97
	Area Counts:	1.36e+007
	Manual Modification	No
	Amount:	51.9 (ng/mL)
	% Accuracy:	130.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312012.wiff	Acquisition Date	3/12/2010 12:49:03 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

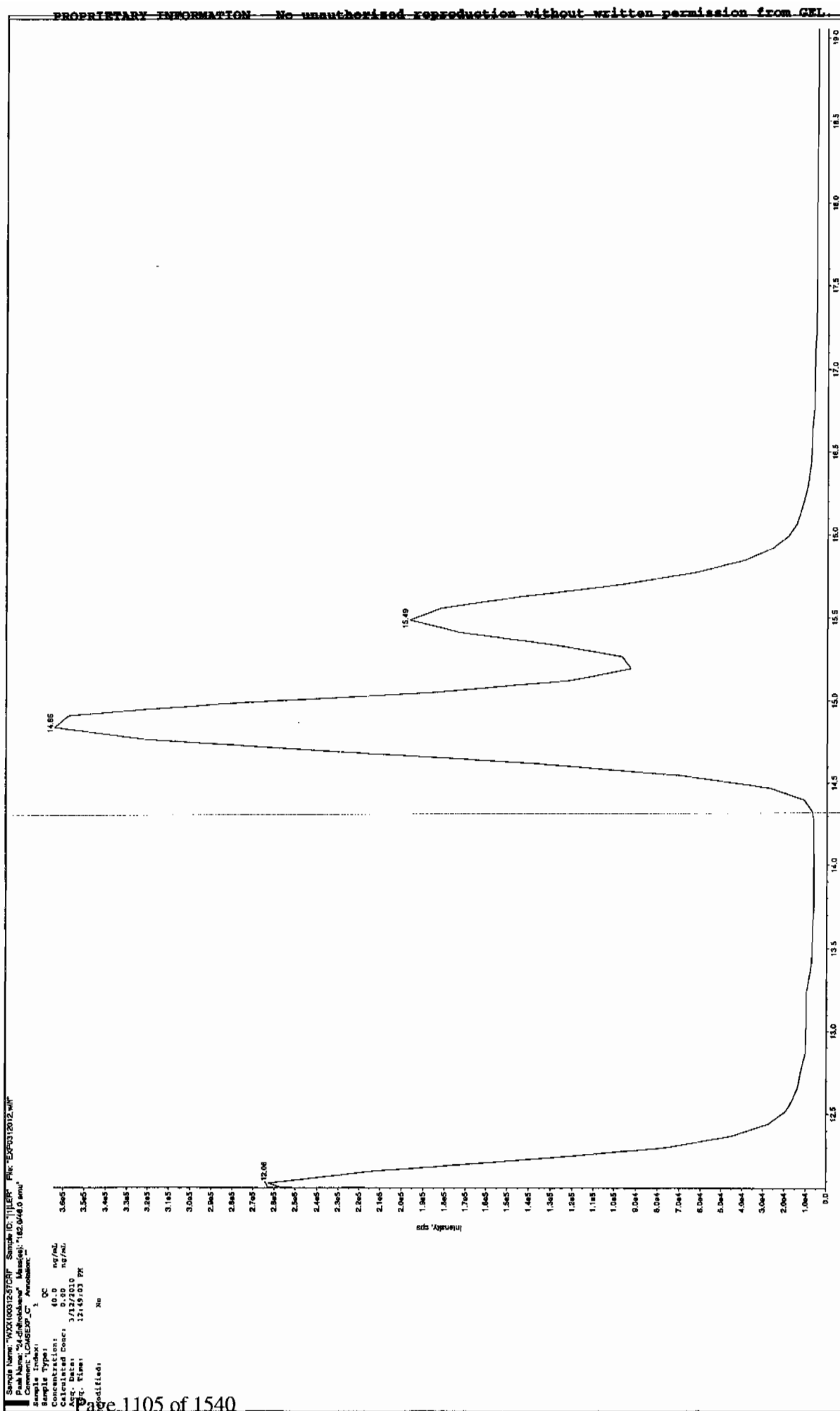
	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.7
	Area Counts:	4.89e+006
	Manual Modification	No
	Amount:	42.4 (ng/mL)
	% Accuracy:	106.00

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.7
	Area Counts:	6.93e+006
	Manual Modification	No
	Amount:	46.5 (ng/mL)
	% Accuracy:	116.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	2.51e+007
	Manual Modification	No
	Amount:	54.0 (ng/mL)
	% Accuracy:	135.00

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	2.61e+005
	Manual Modification	No
	Amount:	39.9 (ng/mL)
	% Accuracy:	99.70

Before Jan 3/24/10



GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312012.wiff	Acquisition Date	3/12/2010 12:49:03 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

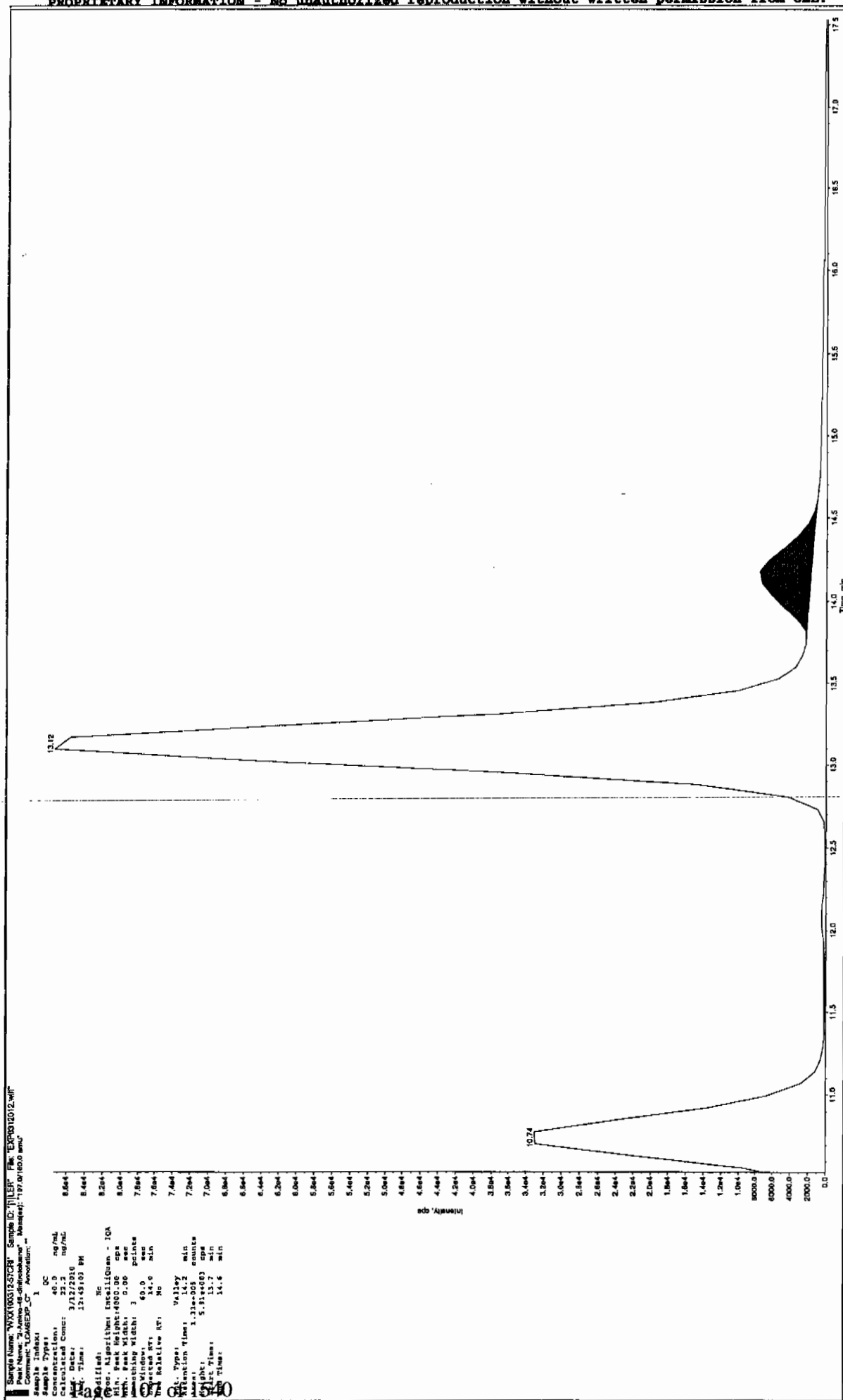
	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.1
	Area Counts:	5.53e+006
	Manual Modification	No
	Amount:	22.6 (ng/mL)
	% Accuracy:	113.00

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	14.8
	Area Counts:	9.23e+006
	Manual Modification	No
	Amount:	34.7 (ng/mL)
	% Accuracy:	86.70

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.5
	Area Counts:	4.97e+006
	Manual Modification	Yes
	Amount:	42.5 (ng/mL)
	% Accuracy:	106.00

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	8.90e+006
	Manual Modification	No
	Amount:	48.1 (ng/mL)
	% Accuracy:	120.00

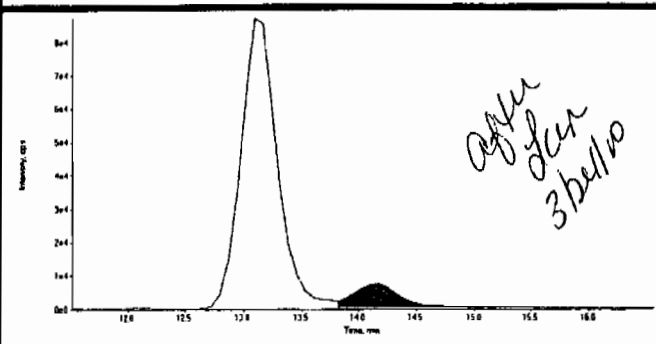
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

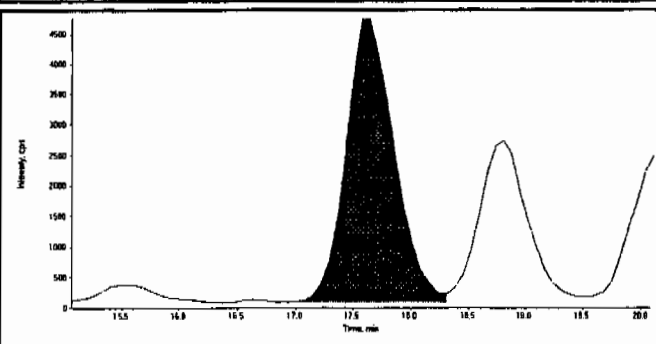


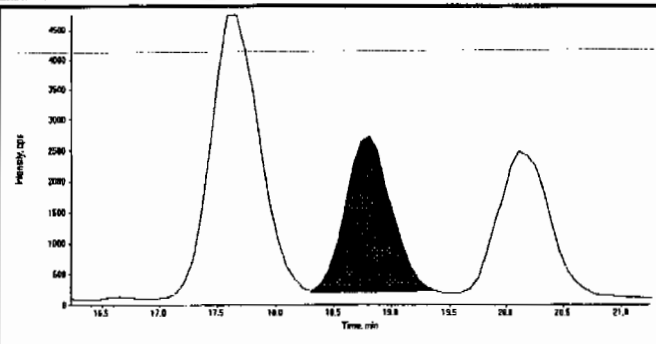
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

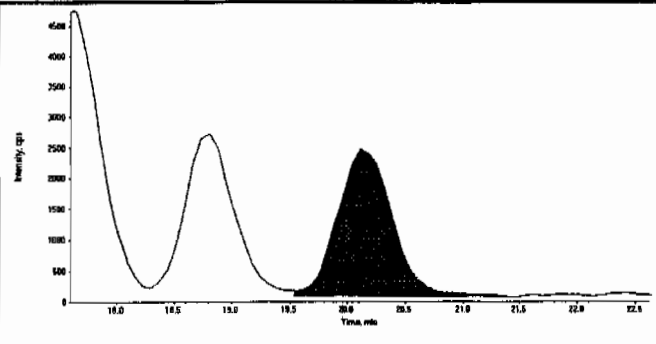
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312012.wiff	Acquisition Date	3/12/2010 12:49:03 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.2
	Area Counts:	2.06e+005
	Manual Modification	Yes
	Amount:	34.3 (ng/mL)
	% Accuracy:	85.80

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.7
	Area Counts:	1.37e+005
	Manual Modification	No
	Amount:	40.7 (ng/mL)
	% Accuracy:	102.00

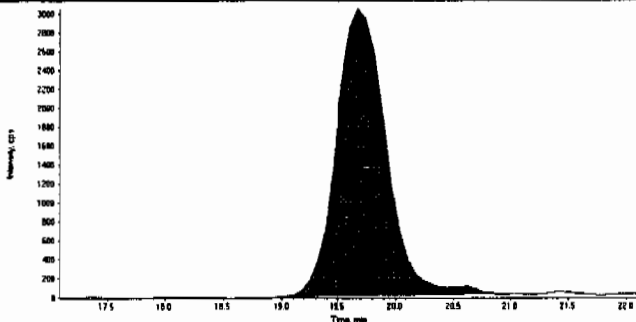
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	18.8
	Area Counts:	7.11e+004
	Manual Modification	No
	Amount:	38.4 (ng/mL)
	% Accuracy:	96.00

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.1
	Area Counts:	8.03e+004
	Manual Modification	No
	Amount:	39.0 (ng/mL)
	% Accuracy:	97.50

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312012.wiff	Acquisition Date	3/12/2010 12:49:03 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	19.6
	Actual RT:	19.7
	Area Counts:	9.29e+004
	Manual Modification	No
	Amount:	41.2 (ng/mL)
	% Accuracy:	103.00

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/12/10
 Time of Injection 1259
 Standard Number WXX100312-57CRI
 Data File EXP0312012a

HMX	102.0
RDX	98.6
TNX	104.0
DNX	101.0
MNX	99.6
135-Trinitrobenzene	130.0
13-Dinitrobenzene	106.0
Tetryl	116.0
246-Trinitrotoluene	135.0
Nitrobenzene	99.7
34-dinitrotoluene	113.0
26-dinitrotoluene	126.0
24-dinitrotoluene	106.0
4-Amino-26-dinitrotoluene	120.0
2-Amino-46-dinitrotoluene	85.8
2-Nitrotoluene	102.0
4-Nitrotoluene	96.0
3-Nitrotoluene	97.5
PETN	103.0

TOTAL

2041.2

HMM 03/24/10

AVERAGE

✓ 107.4

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

*LAN
3/24/10*

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0312022.wiff

Analysis Date: 12-MAR-10 17:13

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
HMX	600	462	77	
MNX	600	550	92	
Nitrobenzene	600	590	98	
PETN	600	538	90	
RDX	600	561	94	
TNX	600	577	96	
Tetryl	600	630	105	
m-Dinitrobenzene	600	546	91	
m-Nitrotoluene	600	564	94	
o-Nitrotoluene	600	546	91	
p-Nitrotoluene	600	515	86	
1,3,5-Trinitrobenzene	600	510	85	
2,4,6-Trinitrotoluene	600	530	88	
2,4-Dinitrotoluene	600	568	95	
2,6-Dinitrotoluene	600	591	98	
2-Amino-4,6-dinitrotoluene	600	580	97	
3,4-Dinitrotoluene	300	271	90	
4-Amino-2,6-dinitrotoluene	600	542	90	
DNX	600	535	89	

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%

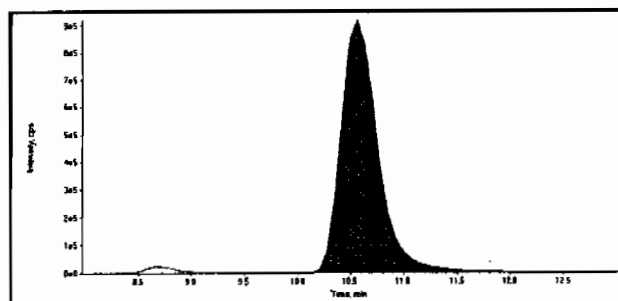
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

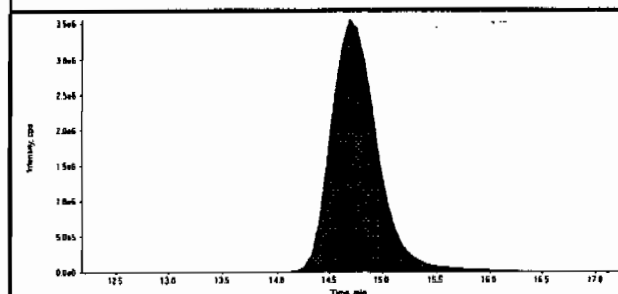
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312022.wiff	Acquisition Date	3/12/2010 5:13:04 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



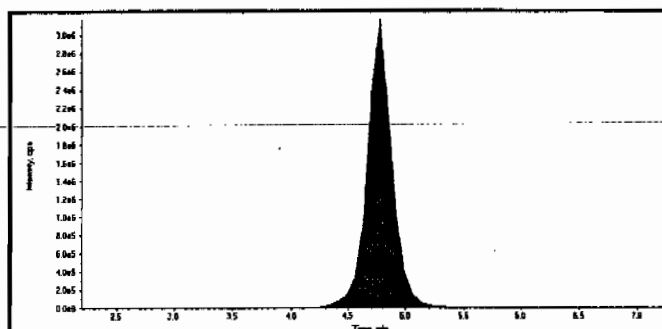
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	22500000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

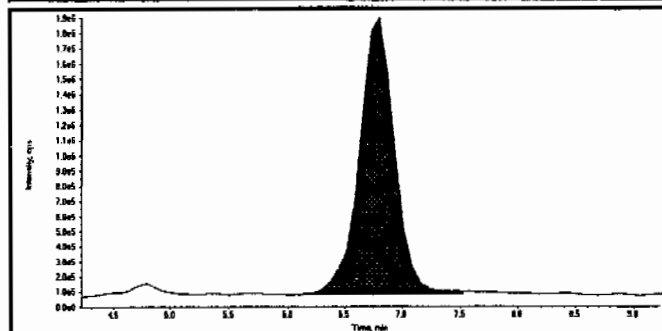


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.70
Area Counts:	109000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.73e+007
Manual Modification	No
Amount:	462. (ng/mL)
% Accuracy:	77.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	3.96e+007
Manual Modification	No
Amount:	561. (ng/mL)
% Accuracy:	93.50

Handwritten: done 03/24/10
Signature: [Signature]
Date: 3/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312022.wiff	Acquisition Date	3/12/2010 5:13:04 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	4.17e+007
	Manual Modification	No
	Amount:	577. (ng/mL)
	% Accuracy:	96.10

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	3.45e+007
	Manual Modification	No
	Amount:	535. (ng/mL)
	% Accuracy:	89.20

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	1.95e+007
	Manual Modification	No
	Amount:	550. (ng/mL)
	% Accuracy:	91.70

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	1.40e+008
	Manual Modification	No
	Amount:	510. (ng/mL)
	% Accuracy:	85.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312022.wiff	Acquisition Date	3/12/2010 5:13:04 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.7
	Area Counts:	6.56e+007
	Manual Modification	No
	Amount:	546. (ng/mL)
	% Accuracy:	91.00

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.7
	Area Counts:	9.79e+007
	Manual Modification	No
	Amount:	630. (ng/mL)
	% Accuracy:	105.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	2.71e+008
	Manual Modification	No
	Amount:	530. (ng/mL)
	% Accuracy:	88.40

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	4.02e+006
	Manual Modification	No
	Amount:	590. (ng/mL)
	% Accuracy:	98.40

Before Jan 31/10

Sample Name: "W00100315600Y" Sample ID: "111111" File: "EXP0312022.w" Peak Name: "2s-dihydroquinone" Mass(es): "182.046.0 amu"

Comment: "LCHSEXP_C" Annotation: "No"

Sample Index: 1

Concentration: 500 ng/ml

Calculated Conc: 331 ng/ml

Acq. Date: 3/12/2010

Acq. Time: 3:13:06 PM

Modified: No

Source: Algorithm: IntelliQuan - IOA

Min. Peak Height: 1.000 cps

Min. Peak Width: 3.000 points

Smoothing Width: 60.0 sec

RT Window: 14.8 min

Reported RT: 14.8 min

RT Tolerance: 0.2 min

Int. Type: Valley

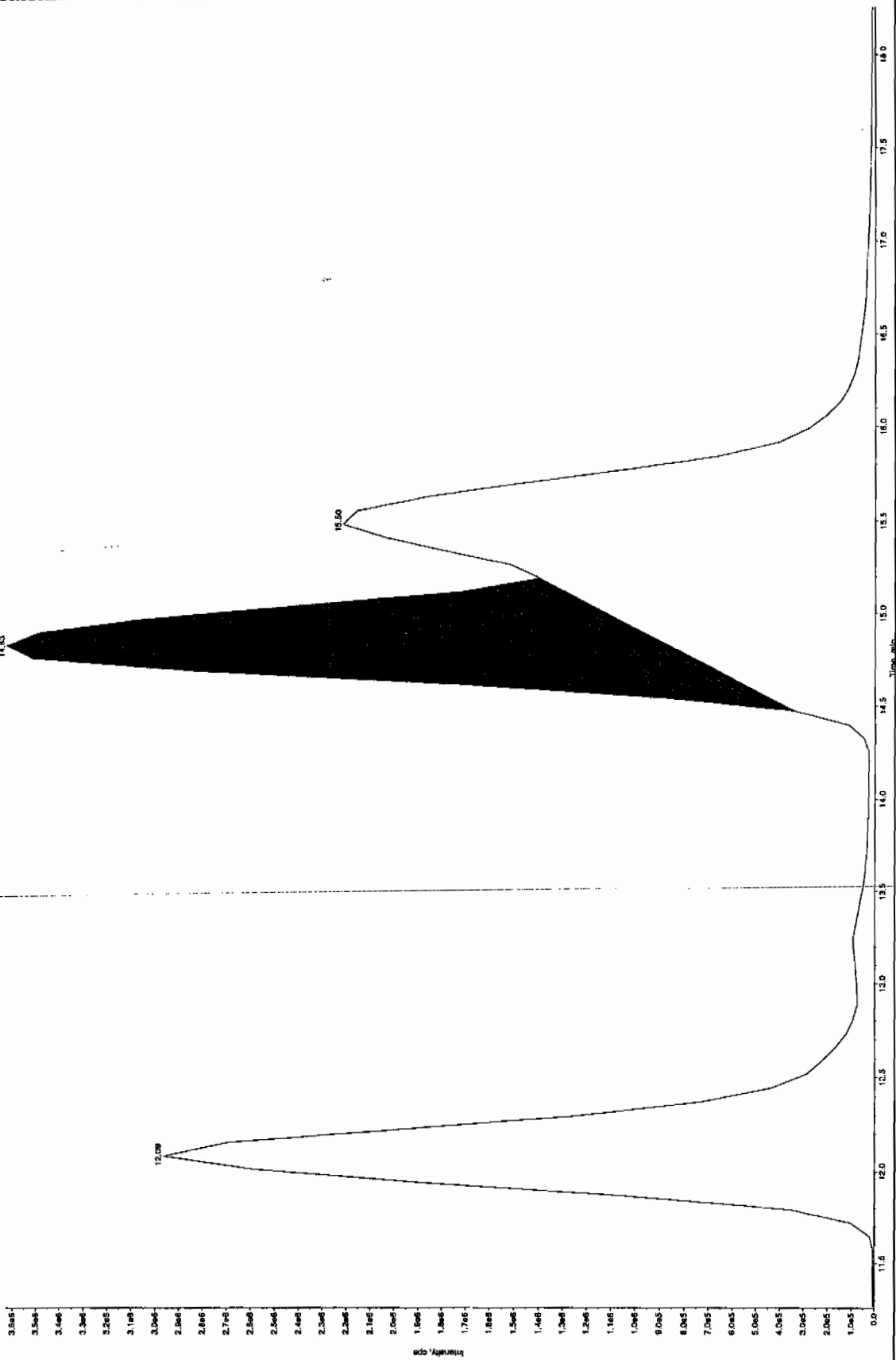
Retention Time: 14.8 min

Height: 6.68e+006 cps

Width: 2.76e+006 cps

Start Time: 14.5 min

End Time: 15.2 min



15.111111

Sample Name: "WXX100312-55CCV" Sample ID: "11LER" File: "EXP00312022.wif"
Peak Name: "24-dichloridane" Mass(es): "182.046, 0 amu"
Comment: "COMSEXP_C" Annotation: ""

QC
Sample Type: 600.
Concentration: 3.58 ng/mL
Calculated Conc: 3.58 ng/mL
Date: 3/12/2010
Acq. Time: 5:13:04 PM
Diluted: No

Intensity, cps

14.83

15.50

12.09

18.0

17.5

17.0

16.5

16.0

15.5

15.0

14.5

14.0

13.5

13.0

12.5

12.0

11.5

11.0

10.5

10.0

9.5

9.0

8.5

8.0

7.5

7.0

6.5

6.0

5.5

5.0

4.5

4.0

3.5

3.0

2.5

2.0

1.5

1.0

0.5

0.0

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312022.wiff	Acquisition Date	3/12/2010 5:13:04 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

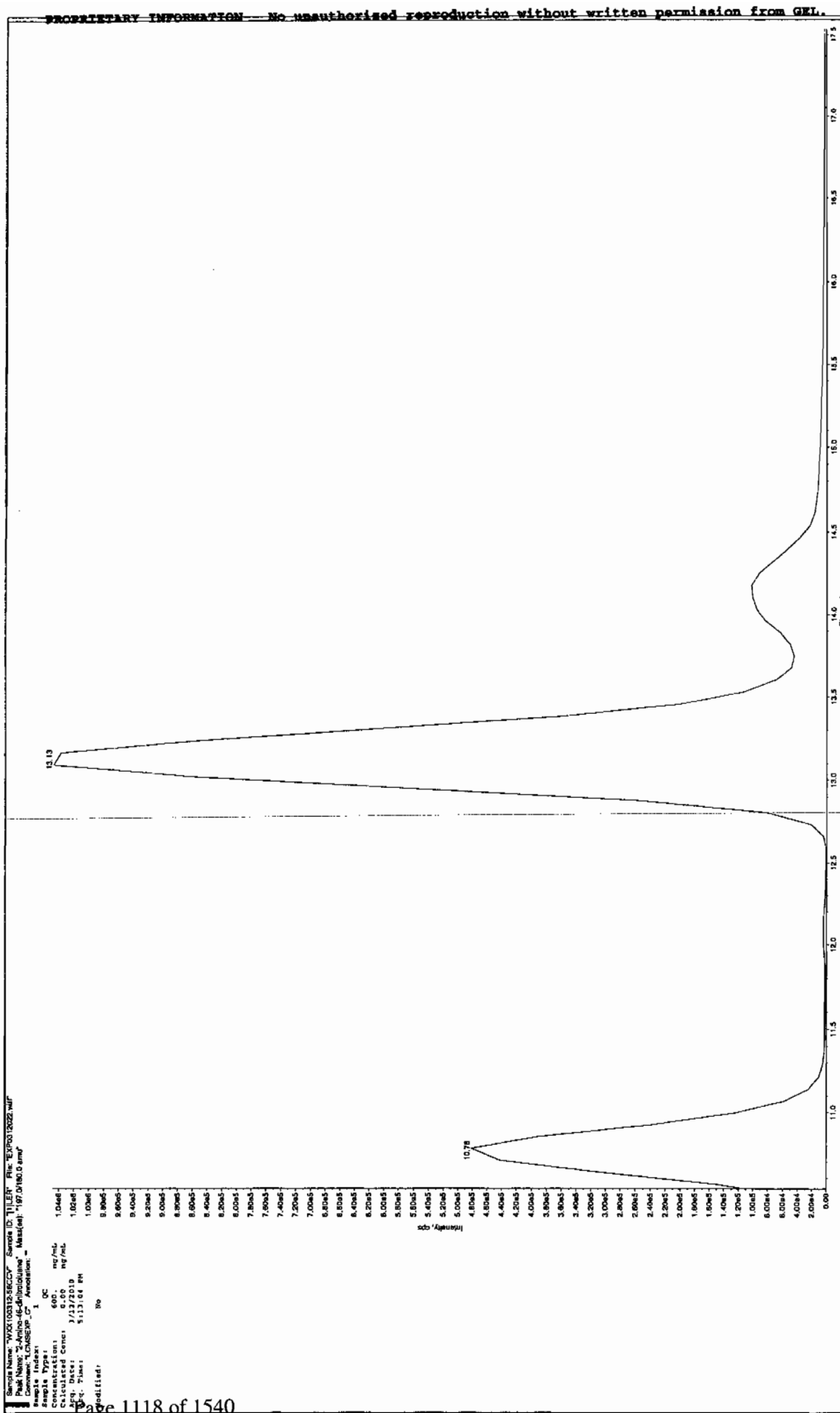
	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.1
	Area Counts:	7.28e+007
	Manual Modification	No
	Amount:	271. (ng/mL)
	% Accuracy:	90.40

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	14.8
	Area Counts:	1.04e+008
	Manual Modification	Yes
	Amount:	591. (ng/mL)
	% Accuracy:	98.40

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.5
	Area Counts:	7.28e+007
	Manual Modification	Yes
	Amount:	568. (ng/mL)
	% Accuracy:	94.60

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.1
	Area Counts:	1.10e+008
	Manual Modification	No
	Amount:	542. (ng/mL)
	% Accuracy:	90.30

Before Jan 3/24/10



GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312022.wiff	Acquisition Date	3/12/2010 5:13:04 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.1
	Area Counts:	3.82e+006
	Manual Modification	Yes
	Amount:	580. (ng/mL)
	% Accuracy:	96.70

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.7
	Area Counts:	2.02e+006
	Manual Modification	No
	Amount:	546. (ng/mL)
	% Accuracy:	90.90

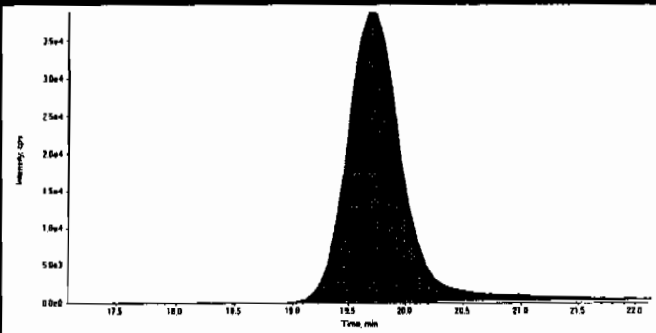
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	18.8
	Area Counts:	1.05e+006
	Manual Modification	No
	Amount:	515. (ng/mL)
	% Accuracy:	85.80

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.2
	Area Counts:	1.28e+006
	Manual Modification	No
	Amount:	564. (ng/mL)
	% Accuracy:	94.10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312022.wiff	Acquisition Date	3/12/2010 5:13:04 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	19.6
	Actual RT:	19.7
	Area Counts:	1.33e+006
	Manual Modification	No
	Amount:	538. (ng/mL)
	% Accuracy:	89.70

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/12/10
 Time of Injection 1713
 Standard Number WXX100312-56CCV
 Data File EXP0312022a

HMX	77.0
RDX	93.5
TNX	96.1
DNX	89.2
MNX	91.7
135-Trinitrobenzene	85.0
13-Dinitrobenzene	91.0
Tetryl	105.0
246-Trinitrotoluene	88.4
Nitrobenzene	98.4
34-dinitrotoluene	90.4
26-dinitrotoluene	98.4
24-dinitrotoluene	94.6
4-Amino-26-dinitrotoluene	90.3
2-Amino-46-dinitrotoluene	96.7
2-Nitrotoluene	90.9
4-Nitrotoluene	85.8
3-Nitrotoluene	94.1
PETN	89.7

TOTAL

1746.2

AVERAGE

91.9

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

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3/24/10

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0312024.wiff

Analysis Date: 12-MAR-10 18:05

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	48.3	121	
2,4,6-Trinitrotoluene	40	45.3	113	
2,4-Dinitrotoluene	40	41.8	105	
2,6-Dinitrotoluene	40	33.4	83	
2-Amino-4,6-dinitrotoluene	40	39.8	100	
3,4-Dinitrotoluene	20	21.6	108	
4-Amino-2,6-dinitrotoluene	40	44.1	110	
DNX	40	41.4	103	
HMX	40	40.3	101	
MNX	40	39.8	99	
Nitrobenzene	40	44.5	111	
PETN	40	38.9	97	
RDX	40	41	102	
TNX	40	41	102	
Tetryl	40	49.7	124	
m-Dinitrobenzene	40	44.9	112	
m-Nitrotoluene	40	40	100	
o-Nitrotoluene	40	41.8	105	
p-Nitrotoluene	40	38	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%

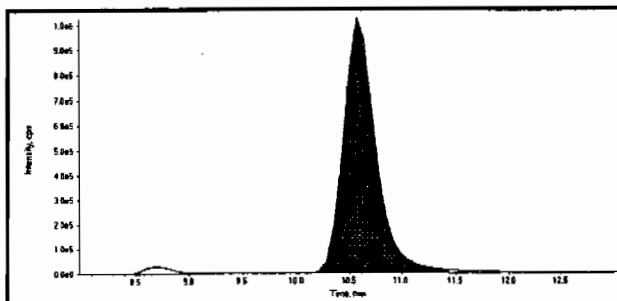
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

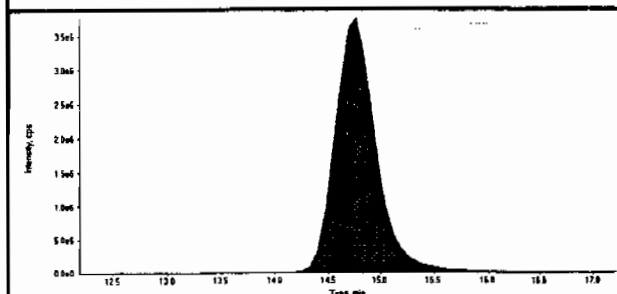
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312024.wiff	Acquisition Date	3/12/2010 6:05:52 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



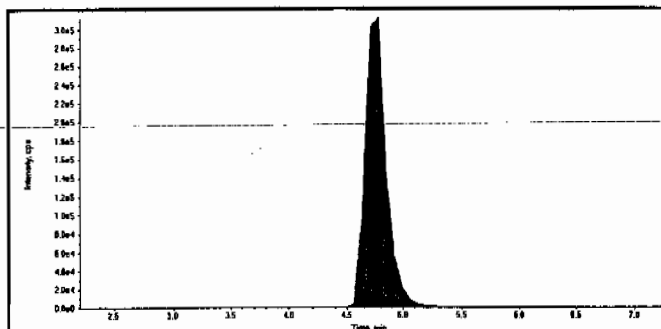
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	22600000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

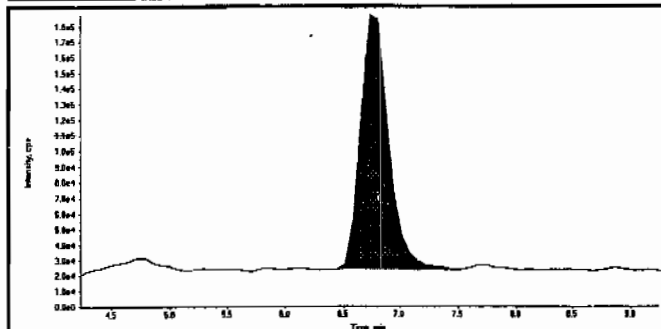


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	105000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.15e+006
Manual Modification	No
Amount:	40.3 (ng/mL)
% Accuracy:	101.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.73
Area Counts:	2.91e+006
Manual Modification	No
Amount:	41.0 (ng/mL)
% Accuracy:	102.00

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GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312024.wiff	Acquisition Date	3/12/2010 6:05:52 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	2.98e+006
	Manual Modification	No
	Amount:	41.0 (ng/mL)
	% Accuracy:	102.00

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.35
	Area Counts:	2.68e+006
	Manual Modification	No
	Amount:	41.4 (ng/mL)
	% Accuracy:	103.00

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	1.42e+006
	Manual Modification	No
	Amount:	39.8 (ng/mL)
	% Accuracy:	99.40

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	8.97
	Area Counts:	1.33e+007
	Manual Modification	No
	Amount:	48.3 (ng/mL)
	% Accuracy:	121.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312024.wiff	Acquisition Date	3/12/2010 6:05:52 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

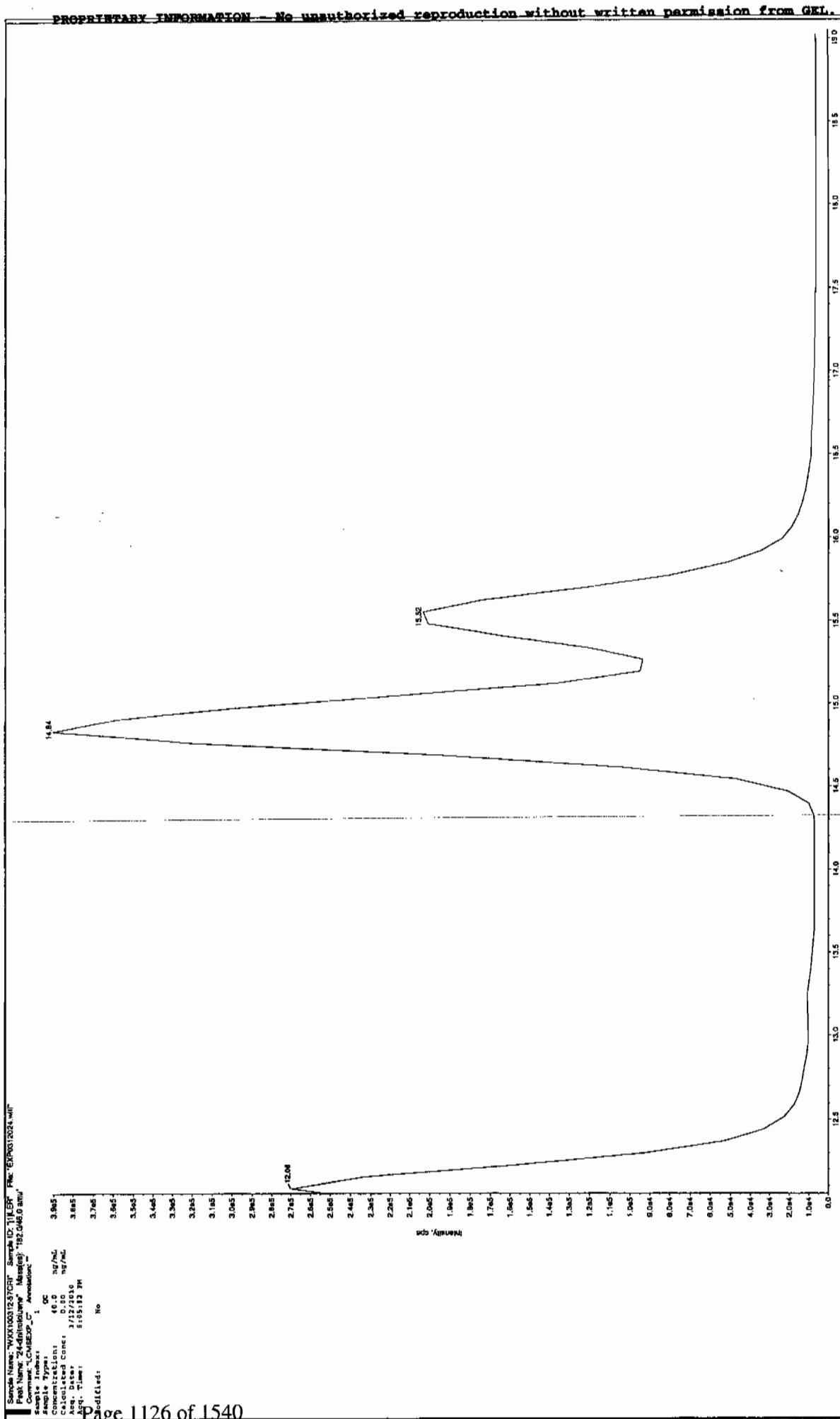
	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.7
	Area Counts:	5.41e+006
	Manual Modification	No
	Amount:	44.9 (ng/mL)
	% Accuracy:	112.00

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.8
	Area Counts:	7.76e+006
	Manual Modification	No
	Amount:	49.7 (ng/mL)
	% Accuracy:	124.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	2.22e+007
	Manual Modification	No
	Amount:	45.3 (ng/mL)
	% Accuracy:	113.00

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	3.05e+005
	Manual Modification	No
	Amount:	44.5 (ng/mL)
	% Accuracy:	111.00

Before Jan 3/24/10



GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312024.wiff	Acquisition Date	3/12/2010 6:05:52 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.1
	Area Counts:	5.55e+006
	Manual Modification	No
	Amount:	21.6 (ng/mL)
	% Accuracy:	108.00

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	14.8
	Area Counts:	9.51e+006
	Manual Modification	No
	Amount:	33.4 (ng/mL)
	% Accuracy:	83.40

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.5
	Area Counts:	5.15e+006
	Manual Modification	Yes
	Amount:	41.8 (ng/mL)
	% Accuracy:	105.00

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	8.58e+006
	Manual Modification	No
	Amount:	44.1 (ng/mL)
	% Accuracy:	110.00

Before Jan 31/2010

Sample Name: WXX1000123701 Sample ID: 11111111 File: E:\DATA\123701.w

File Name: WXX1000123701 Data Source: Mass(es): 117.01800 amu

Sample Index: 1 Acquisition: 1

Sample Type: QC

Concentration: 42.5 ng/mL

Acquisition Date: 3/13/2010

Acquisition Time: 8:05:52 PM

Peak Time: 7.444

Peak Width: 7.284

Peak Width: 7.084

Peak Width: 6.884

Peak Width: 6.684

Peak Width: 6.484

Peak Width: 6.284

Peak Width: 6.084

Peak Width: 5.884

Peak Width: 5.684

Peak Width: 5.484

Peak Width: 5.284

Peak Width: 5.084

Peak Width: 4.884

Peak Width: 4.684

Peak Width: 4.484

Peak Width: 4.284

Peak Width: 4.084

Peak Width: 3.884

Peak Width: 3.684

Peak Width: 3.484

Peak Width: 3.284

Peak Width: 3.084

Peak Width: 2.884

Peak Width: 2.684

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Peak Width: 2.284

Peak Width: 2.084

Peak Width: 1.884

Peak Width: 1.684

Peak Width: 1.484

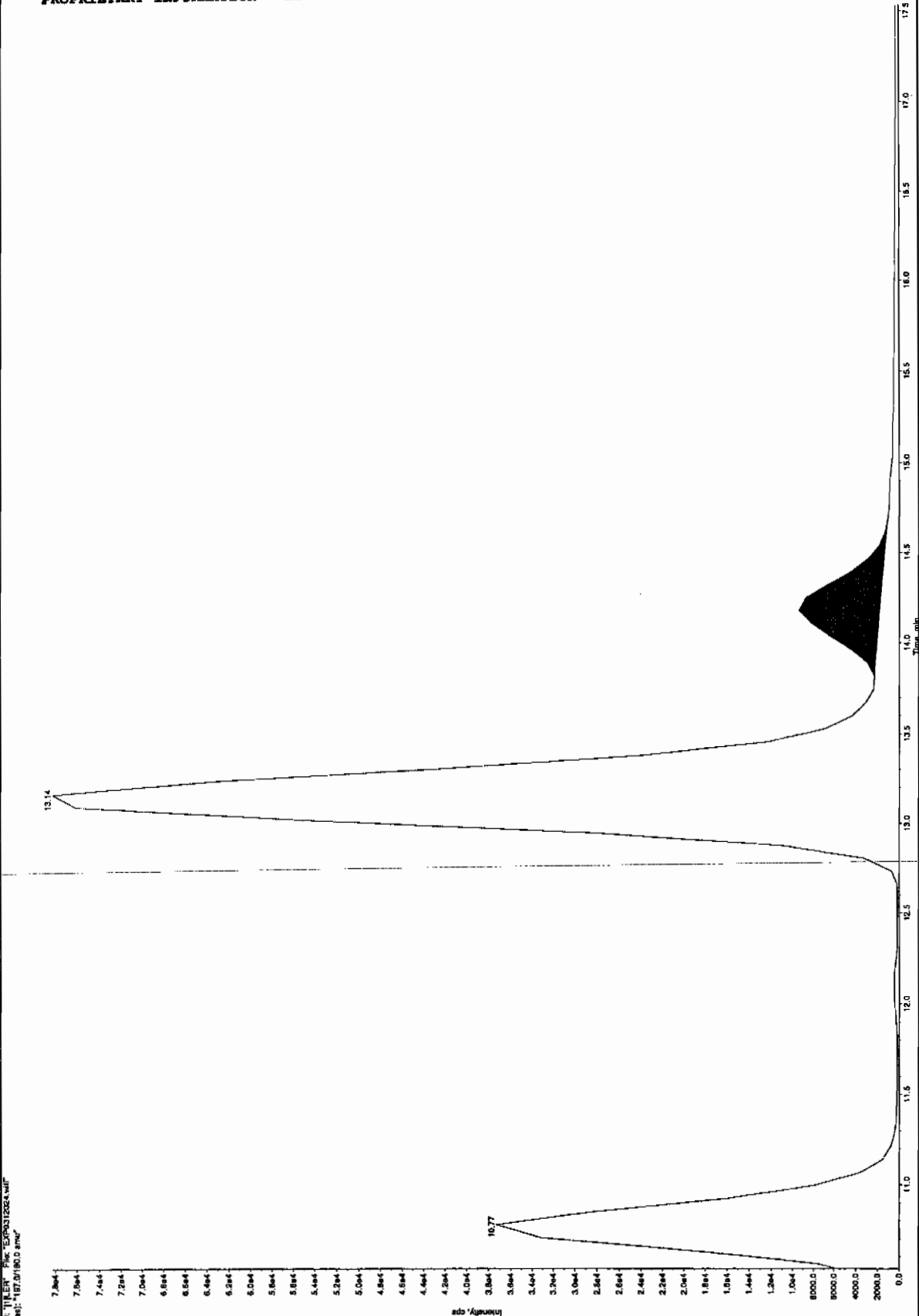
Peak Width: 1.284

Peak Width: 1.084

Peak Width: 8000.0

Peak Width: 4000.0

Peak Width: 2000.0

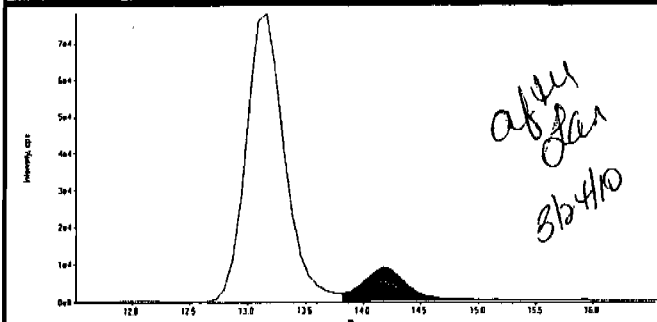


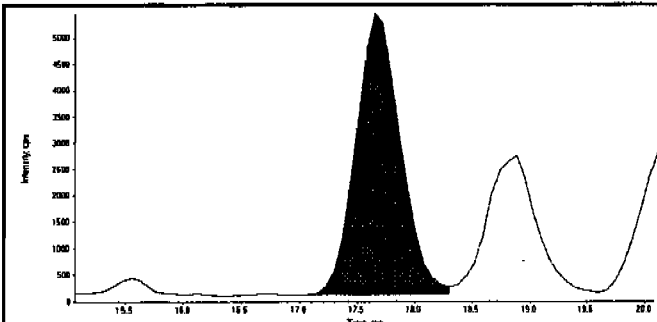
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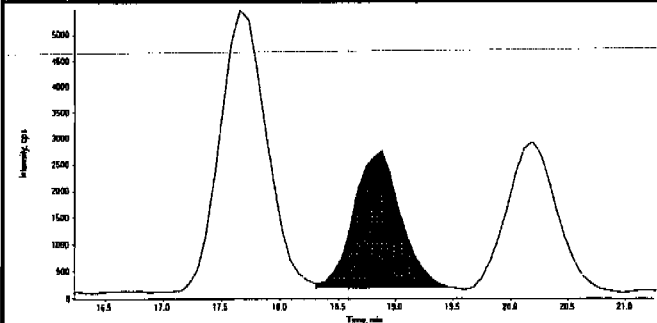
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

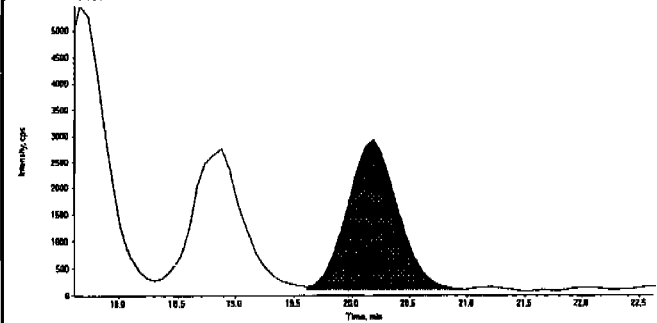
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LCMSMS#3

Data File	EXP0312024.wiff	Acquisition Date	3/12/2010 6:05:52 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.2
	Area Counts:	2.52e+005
	Manual Modification	Yes
	Amount:	39.8 (ng/mL)
	% Accuracy:	99.60

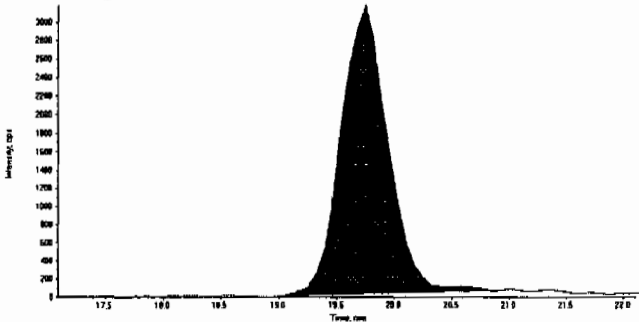
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.7
	Area Counts:	1.48e+005
	Manual Modification	No
	Amount:	41.8 (ng/mL)
	% Accuracy:	105.00

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	18.9
	Area Counts:	7.41e+004
	Manual Modification	No
	Amount:	38.0 (ng/mL)
	% Accuracy:	95.00

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.2
	Area Counts:	8.69e+004
	Manual Modification	No
	Amount:	40.0 (ng/mL)
	% Accuracy:	100.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312024.wiff	Acquisition Date	3/12/2010 6:05:52 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.7
		Area Counts:	9.24e+004
		Manual Modification	No
		Amount:	38.9 (ng/mL)
		% Accuracy:	97.20

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/12/10
 Time of Injection 1805
 Standard Number WXX100312-57CRI
 Data File EXP0312024a

HMX	101.0
RDX	102.0
TNX	102.0
DNX	103.0
MNX	99.4
135-Trinitrobenzene	121.0
13-Dinitrobenzene	112.0
Tetryl	124.0
246-Trinitrotoluene	113.0
Nitrobenzene	111.0
34-dinitrotoluene	108.0
26-dinitrotoluene	83.4
24-dinitrotoluene	105.0
4-Amino-26-dinitrotoluene	110.0
2-Amino-46-dinitrotoluene	99.6
2-Nitrotoluene	105.0
4-Nitrotoluene	95.0
3-Nitrotoluene	100.0
PETN	97.2

TOTAL

1991.6

AVERAGE

104.8

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Jan
3/24/10

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0312035.wiff

Analysis Date: 12-MAR-10 22:56

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	538	90	
2,4,6-Trinitrotoluene	600	545	91	
2,4-Dinitrotoluene	600	565	94	
2,6-Dinitrotoluene	600	598	100	
2-Amino-4,6-dinitrotoluene	600	626	104	
3,4-Dinitrotoluene	300	276	92	
4-Amino-2,6-dinitrotoluene	600	543	90	
DNX	600	563	94	
HMX	600	501	84	
MNX	600	550	92	
Nitrobenzene	600	626	104	
PETN	600	575	96	
RDX	600	572	95	
TNX	600	562	94	
Tetryl	600	623	104	
m-Dinitrobenzene	600	537	90	
m-Nitrotoluene	600	582	97	
o-Nitrotoluene	600	582	97	
p-Nitrotoluene	600	584	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%

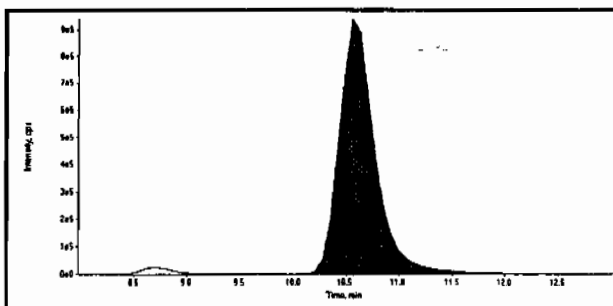
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

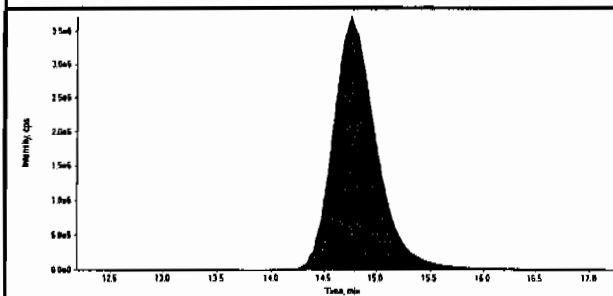
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LCMSMS#3

Data File	EXP0312035.wiff	Acquisition Date	3/12/2010 10:56:18 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



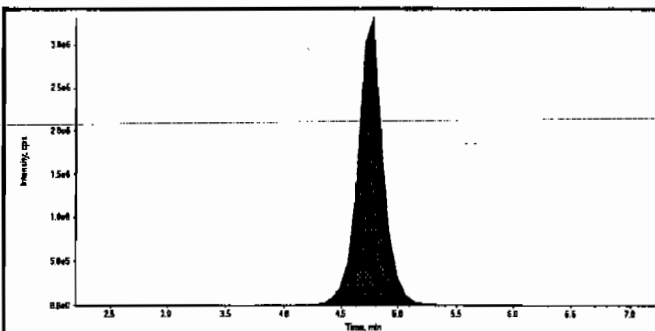
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	22200000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

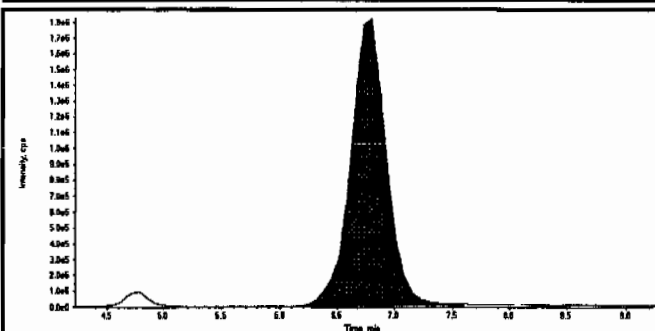


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	106000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	5.07e+007
Manual Modification	No
Amount:	501. (ng/mL)
% Accuracy:	83.50



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	3.99e+007
Manual Modification	No
Amount:	572. (ng/mL)
% Accuracy:	95.30

San
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GEL SOP GL-OA-E-056, Method 8321A-Modified

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LCMSMS#3

Data File	EXP0312035.wiff	Acquisition Date	3/12/2010 10:56:18 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	4.02e+007
	Manual Modification	No
	Amount:	562. (ng/mL)
	% Accuracy:	93.70

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	3.59e+007
	Manual Modification	No
	Amount:	563. (ng/mL)
	% Accuracy:	93.80

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	1.93e+007
	Manual Modification	No
	Amount:	550. (ng/mL)
	% Accuracy:	91.70

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	1.46e+008
	Manual Modification	No
	Amount:	538. (ng/mL)
	% Accuracy:	89.70

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GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312035.wiff	Acquisition Date	3/12/2010 10:56:18 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

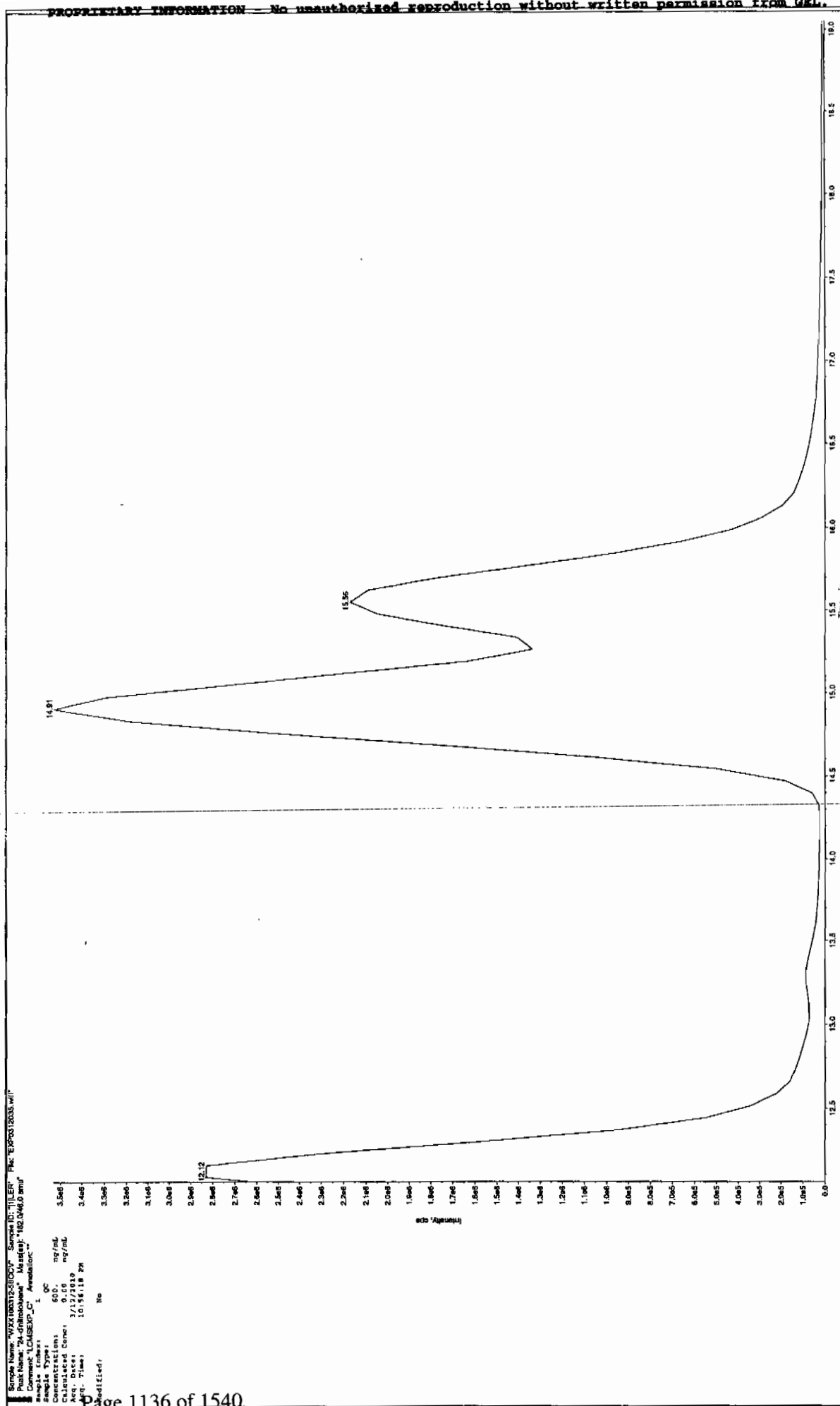
	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.7
	Area Counts:	6.38e+007
	Manual Modification	No
	Amount:	537. (ng/mL)
	% Accuracy:	89.50

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.8
	Area Counts:	9.56e+007
	Manual Modification	No
	Amount:	623. (ng/mL)
	% Accuracy:	104.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	2.72e+008
	Manual Modification	No
	Amount:	545. (ng/mL)
	% Accuracy:	90.90

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	4.22e+006
	Manual Modification	No
	Amount:	626. (ng/mL)
	% Accuracy:	104.00

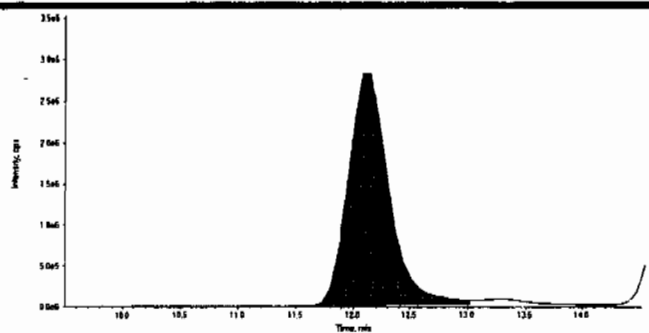
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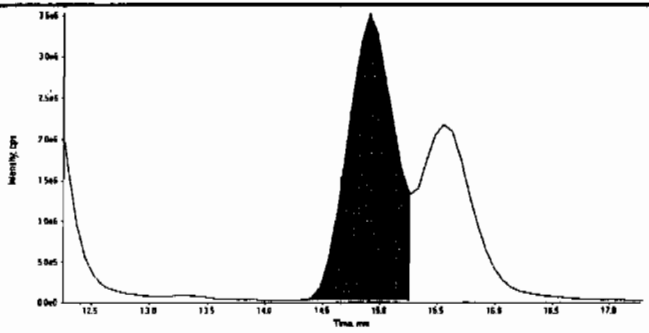


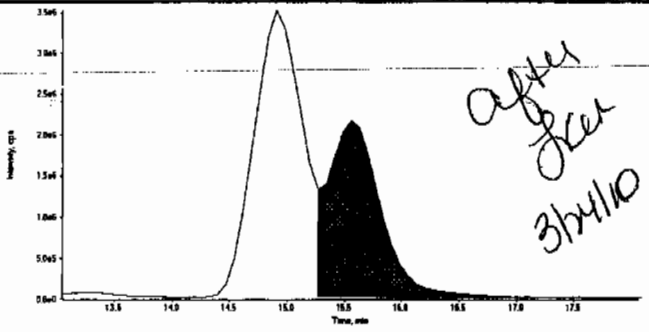
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GEL SOP GL-OA-E-056, Method 8321A-Modified

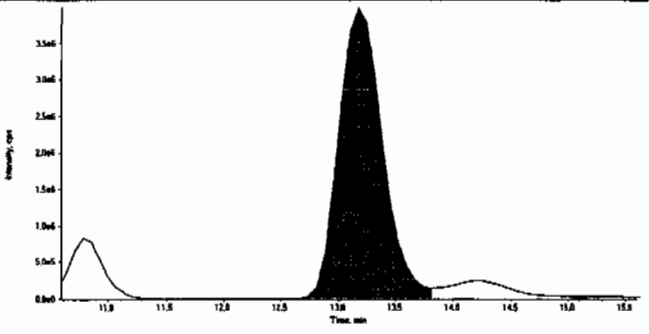
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LCMSMS#3

Data File	EXP0312035.wiff	Acquisition Date	3/12/2010 10:56:18 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.1
	Area Counts:	7.24e+007
	Manual Modification	No
	Amount:	276. (ng/mL)
	% Accuracy:	92.10

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	14.9
	Area Counts:	1.03e+008
	Manual Modification	No
	Amount:	598. (ng/mL)
	% Accuracy:	99.60

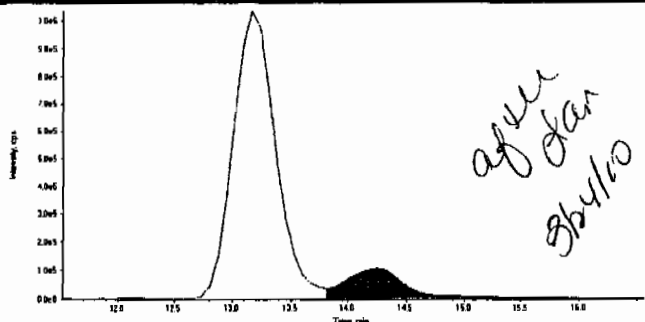
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.6
	Area Counts:	7.07e+007
	Manual Modification	Yes
	Amount:	565. (ng/mL)
	% Accuracy:	94.10

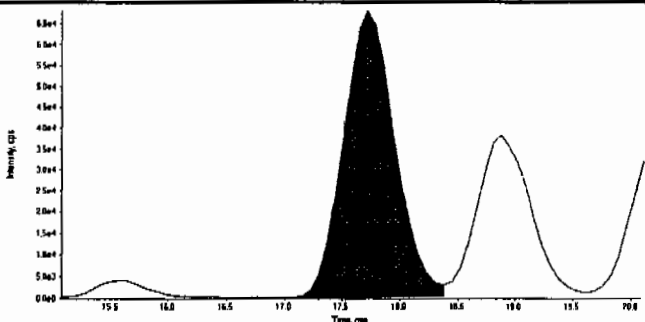
	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	1.07e+008
	Manual Modification	No
	Amount:	543. (ng/mL)
	% Accuracy:	90.40

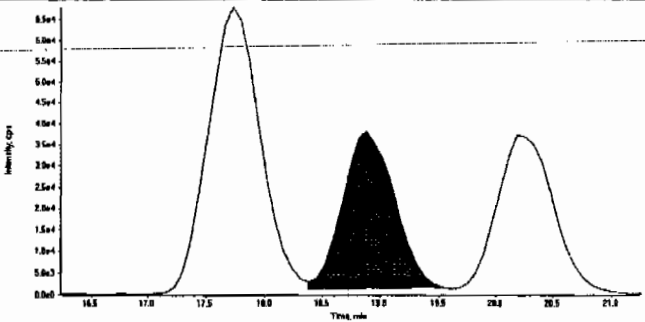
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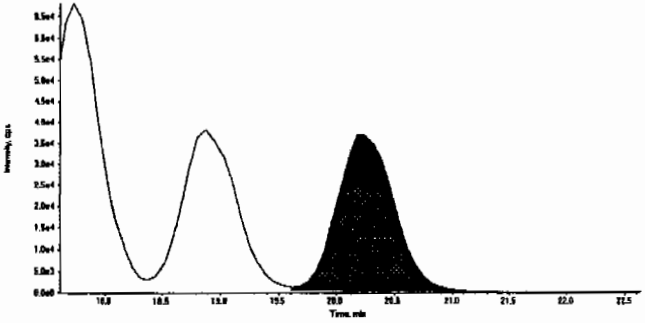
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LCMSMS#3

Data File	EXP0312035.wiff	Acquisition Date	3/12/2010 10:56:18 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.3
	Area Counts:	4.02e+006
	Manual Modification	Yes
	Amount:	626. (ng/mL)
	% Accuracy:	104.00

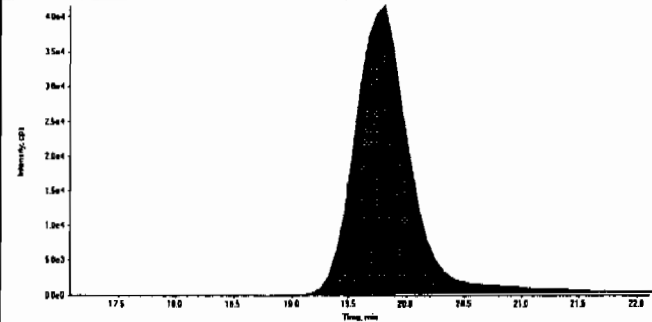
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.7
	Area Counts:	2.10e+006
	Manual Modification	No
	Amount:	582. (ng/mL)
	% Accuracy:	97.00

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	18.9
	Area Counts:	1.16e+006
	Manual Modification	No
	Amount:	584. (ng/mL)
	% Accuracy:	97.40

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.2
	Area Counts:	1.28e+006
	Manual Modification	No
	Amount:	582. (ng/mL)
	% Accuracy:	97.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312035.wiff	Acquisition Date	3/12/2010 10:56:18 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.8
		Area Counts:	1.39e+006
		Manual Modification	No
		Amount:	575. (ng/mL)
		% Accuracy:	95.90

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/12/10
 Time of Injection 2256
 Standard Number WXX100312-56CCV
 Data File EXP0312035a

HMX	83.5
RDX	95.3
TNX	93.7
DNX	93.8
MNX	91.7
135-Trinitrobenzene	89.7
13-Dinitrobenzene	89.5
Tetryl	104.0
246-Trinitrotoluene	90.9
Nitrobenzene	104.0
34-dinitrotoluene	92.1
26-dinitrotoluene	99.6
24-dinitrotoluene	94.1
4-Amino-26-dinitrotoluene	90.4
2-Amino-46-dinitrotoluene	104.0
2-Nitrotoluene	97.0
4-Nitrotoluene	97.4
3-Nitrotoluene	97.0
PETN	95.9

TOTAL

1803.6

done 03/24/10

AVERAGE

94.9

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

*Done
3/24/10*

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0312037.wiff

Analysis Date: 12-MAR-10 23:49

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
DNX	40	37.3	93	
HMX	40	38.4	96	
MNX	40	36.6	92	
Nitrobenzene	40	38.1	95	
PETN	40	34.9	87	
RDX	40	34.7	87	
TNX	40	37	93	
Tetryl	40	47.8	120	
m-Dinitrobenzene	40	41.6	104	
m-Nitrotoluene	40	37.8	95	
o-Nitrotoluene	40	38.5	96	
p-Nitrotoluene	40	37.4	94	
1,3,5-Trinitrobenzene	40	42.9	107	
2,4,6-Trinitrotoluene	40	48.3	121	
2,4-Dinitrotoluene	40	42.9	107	
2,6-Dinitrotoluene	40	32.3	81	
2-Amino-4,6-dinitrotoluene	40	37.8	94	
3,4-Dinitrotoluene	20	21.9	110	
4-Amino-2,6-dinitrotoluene	40	40.7	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%

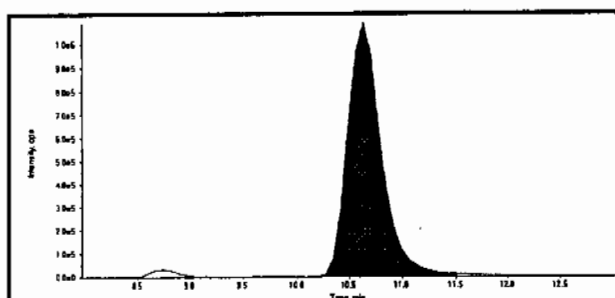
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

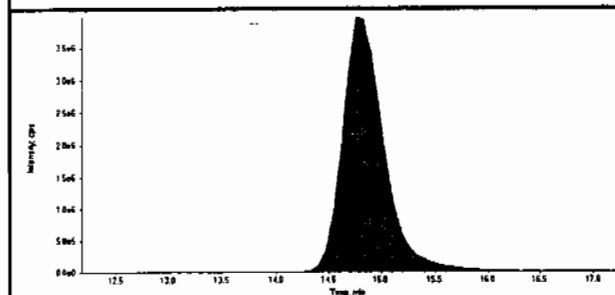
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

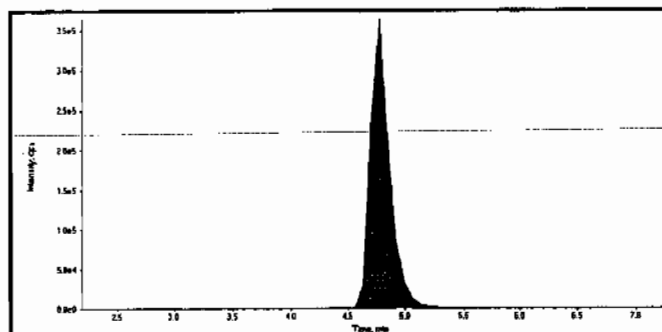
Data File	EXP0312037.wiff	Acquisition Date	3/12/2010 11:49:07 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



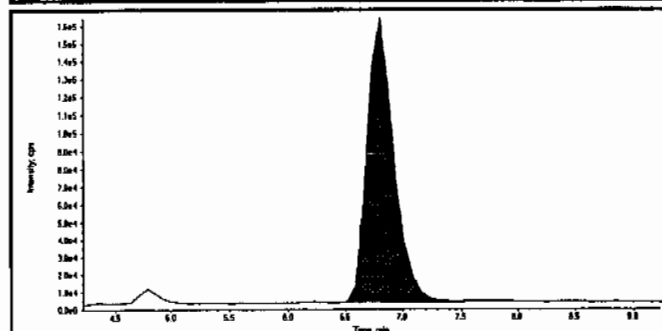
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	24500000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	110000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.29e+006
Manual Modification	No
Amount:	38.4 (ng/mL)
% Accuracy:	96.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	2.68e+006
Manual Modification	No
Amount:	34.7 (ng/mL)
% Accuracy:	86.80

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Handwritten: 3/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312037.wiff	Acquisition Date	3/12/2010 11:49:07 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	2.92e+006
	Manual Modification	No
	Amount:	37.0 (ng/mL)
	% Accuracy:	92.50

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	2.62e+006
	Manual Modification	No
	Amount:	37.3 (ng/mL)
	% Accuracy:	93.10

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	1.42e+006
	Manual Modification	No
	Amount:	36.6 (ng/mL)
	% Accuracy:	91.60

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	1.28e+007
	Manual Modification	No
	Amount:	42.9 (ng/mL)
	% Accuracy:	107.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312037.wiff	Acquisition Date	3/12/2010 11:49:07 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.8
	Area Counts:	5.45e+006
	Manual Modification	No
	Amount:	41.6 (ng/mL)
	% Accuracy:	104.00

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.9
	Area Counts:	8.11e+006
	Manual Modification	No
	Amount:	47.8 (ng/mL)
	% Accuracy:	120.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	2.50e+007
	Manual Modification	No
	Amount:	48.3 (ng/mL)
	% Accuracy:	121.00

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	2.83e+005
	Manual Modification	No
	Amount:	38.1 (ng/mL)
	% Accuracy:	95.20

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312037.wiff	Acquisition Date	3/12/2010 11:49:07 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	5.97e+006
	Manual Modification	No
	Amount:	21.9 (ng/mL)
	% Accuracy:	110.00

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	15.0
	Area Counts:	9.85e+006
	Manual Modification	No
	Amount:	32.3 (ng/mL)
	% Accuracy:	80.70

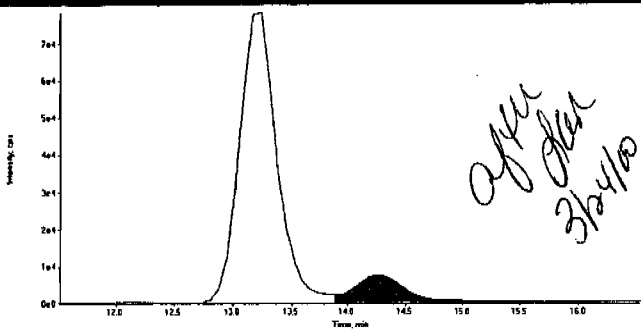
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.6
	Area Counts:	5.57e+006
	Manual Modification	Yes
	Amount:	42.9 (ng/mL)
	% Accuracy:	107.00

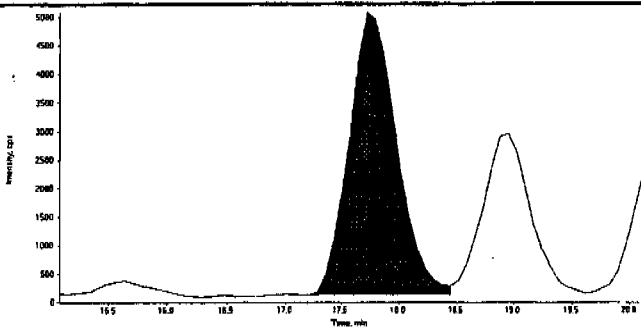
	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	8.37e+006
	Manual Modification	No
	Amount:	40.7 (ng/mL)
	% Accuracy:	102.00

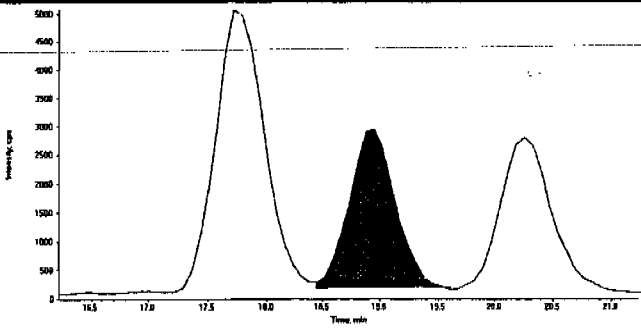
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

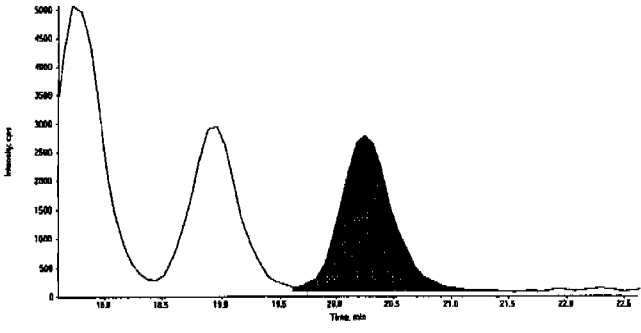
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312037.wiff	Acquisition Date	3/12/2010 11:49:07 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.3
	Area Counts:	2.52e+005
	Manual Modification	Yes
	Amount:	37.8 (ng/mL)
	% Accuracy:	94.40

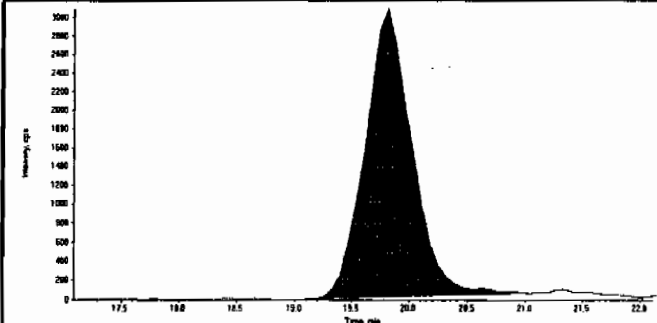
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.7
	Area Counts:	1.44e+005
	Manual Modification	No
	Amount:	38.5 (ng/mL)
	% Accuracy:	96.20

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	19.0
	Area Counts:	7.69e+004
	Manual Modification	No
	Amount:	37.4 (ng/mL)
	% Accuracy:	93.50

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.3
	Area Counts:	8.66e+004
	Manual Modification	No
	Amount:	37.8 (ng/mL)
	% Accuracy:	94.60

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312037.wiff	Acquisition Date	3/12/2010 11:49:07 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.8
		Area Counts:	8.74e+004
		Manual Modification	No
		Amount:	34.9 (ng/mL)
		% Accuracy:	87.10

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/12/10
 Time of Injection 2349
 Standard Number WXX100312-57CRI
 Data File EXP0312037a

HMX	96.0
RDX	86.8
TNX	92.5
DNX	93.1
MNX	91.6
135-Trinitrobenzene	107.0
13-Dinitrobenzene	104.0
Tetryl	120.0
246-Trinitrotoluene	121.0
Nitrobenzene	95.2
34-dinitrotoluene	110.0
26-dinitrotoluene	80.7
24-dinitrotoluene	107.0
4-Amino-26-dinitrotoluene	102.0
2-Amino-46-dinitrotoluene	94.4
2-Nitrotoluene	96.2
4-Nitrotoluene	93.5
3-Nitrotoluene	94.6
PETN	87.1

TOTAL

1872.7

Ann 03/24/10

AVERAGE

✓ 98.6

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

*Rec
3/24/10*

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0312048.wiff

Analysis Date: 13-MAR-10 04:39

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene	600	642	107	
2-Amino-4,6-dinitrotoluene	600	623	104	
3,4-Dinitrotoluene	300	304	101	
4-Amino-2,6-dinitrotoluene	600	546	91	
DNX	600	536	89	
HMX	600	463	77	
MNX	600	545	91	
Nitrobenzene	600	617	103	
PETN	600	534	89	
RDX	600	555	92	
TNX	600	534	89	
Tetryl	600	652	109	
m-Dinitrobenzene	600	562	94	
m-Nitrotoluene	600	572	95	
o-Nitrotoluene	600	582	97	
p-Nitrotoluene	600	596	99	
1,3,5-Trinitrobenzene	600	534	89	
2,4,6-Trinitrotoluene	600	550	92	
2,4-Dinitrotoluene	600	577	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%

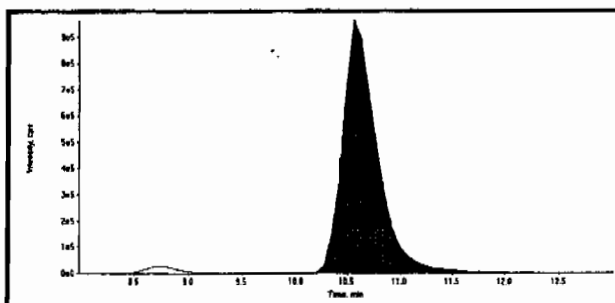
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

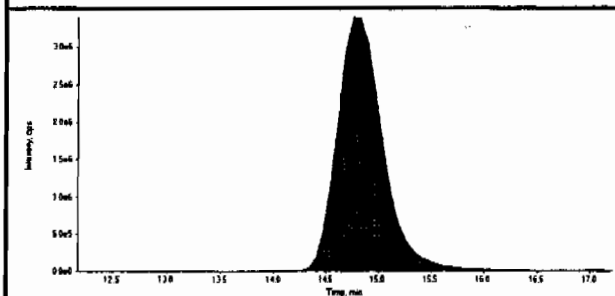
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312048.wiff	Acquisition Date	3/13/2010 4:39:37 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



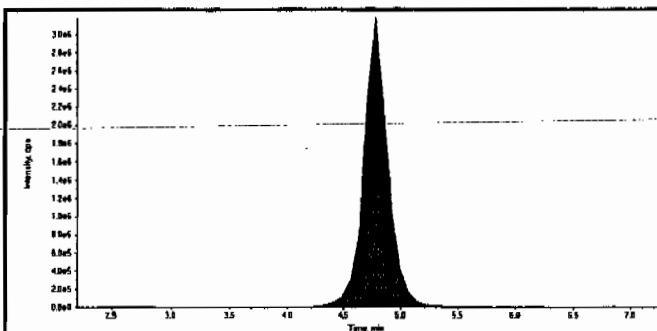
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	22300000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

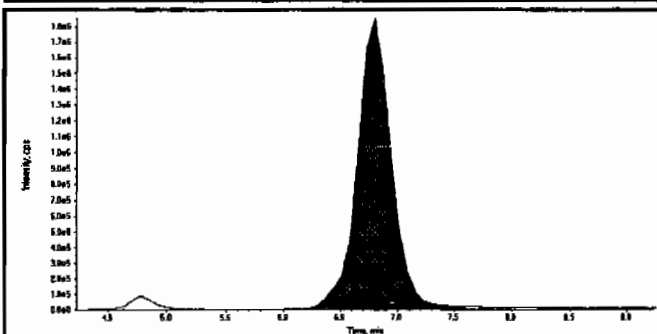


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	105000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.70e+007
Manual Modification	No
Amount:	463. (ng/mL)
% Accuracy:	77.10



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	3.88e+007
Manual Modification	No
Amount:	555. (ng/mL)
% Accuracy:	92.40

Handwritten: 03/24/10 LER 3/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312048.wiff	Acquisition Date	3/13/2010 4:39:37 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	3.83e+007
	Manual Modification	No
	Amount:	534. (ng/mL)
	% Accuracy:	88.90

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	3.42e+007
	Manual Modification	No
	Amount:	536. (ng/mL)
	% Accuracy:	89.30

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	1.92e+007
	Manual Modification	No
	Amount:	545. (ng/mL)
	% Accuracy:	90.90

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	1.45e+008
	Manual Modification	No
	Amount:	534. (ng/mL)
	% Accuracy:	89.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312048.wiff	Acquisition Date	3/13/2010 4:39:37 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

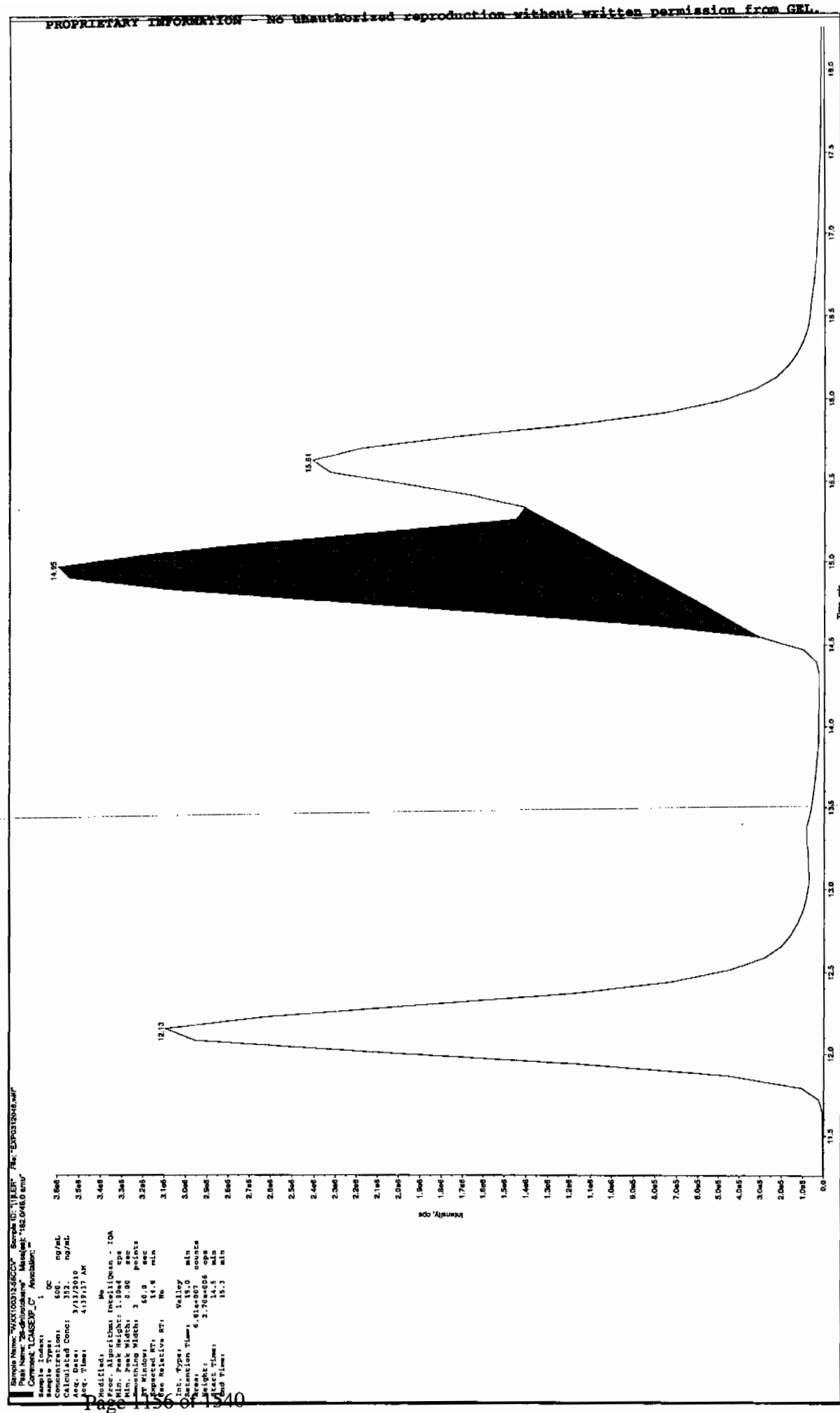
	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.8
	Area Counts:	6.69e+007
	Manual Modification	No
	Amount:	562. (ng/mL)
	% Accuracy:	93.70

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.8
	Area Counts:	1.00e+008
	Manual Modification	No
	Amount:	652. (ng/mL)
	% Accuracy:	109.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	2.69e+008
	Manual Modification	No
	Amount:	550. (ng/mL)
	% Accuracy:	91.70

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	4.17e+006
	Manual Modification	No
	Amount:	617. (ng/mL)
	% Accuracy:	103.00

Before Jan 3/24/10



GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312048.wiff	Acquisition Date	3/13/2010 4:39:37 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

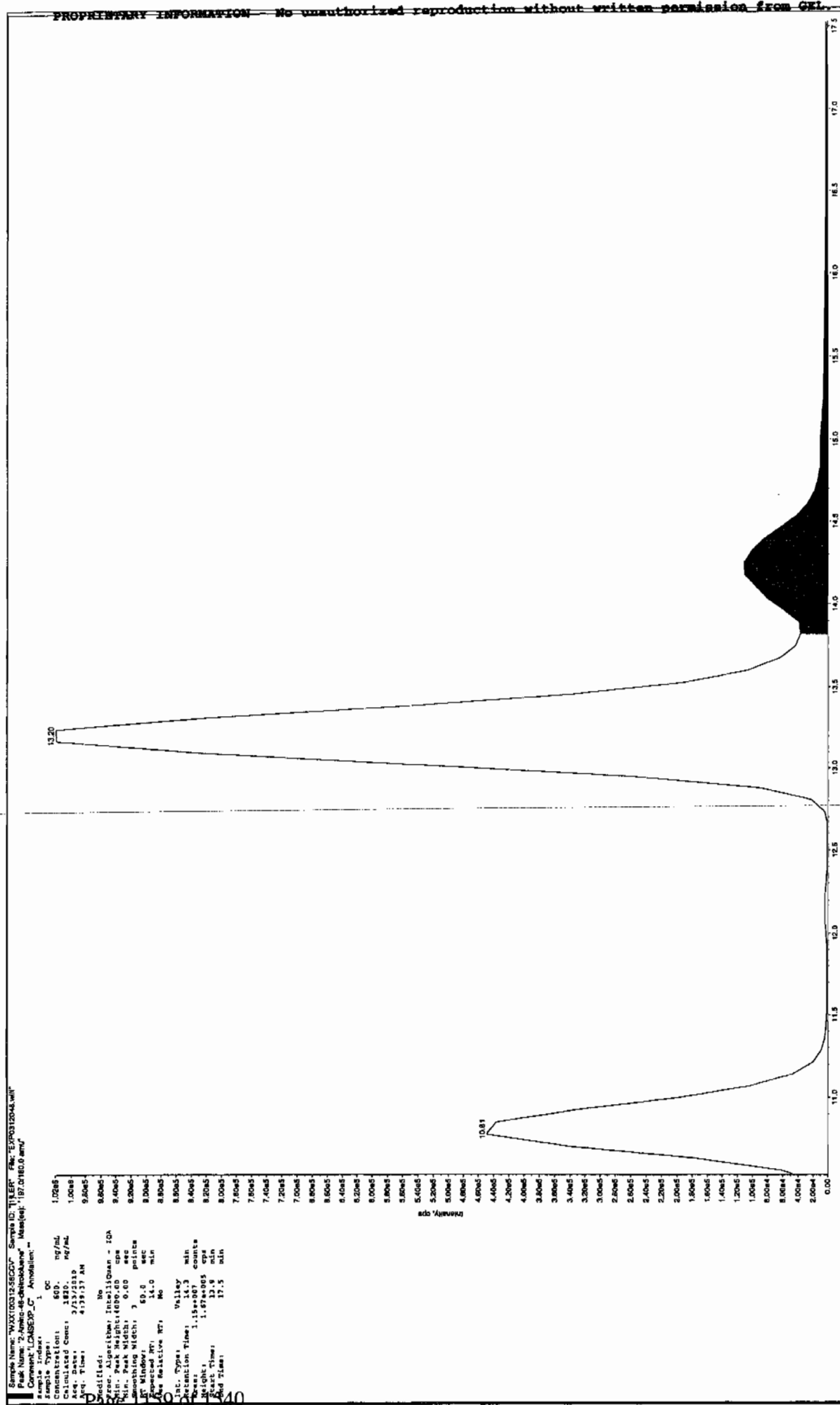
	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	7.84e+007
	Manual Modification	No
	Amount:	304. (ng/mL)
	% Accuracy:	101.00

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	14.9
	Area Counts:	1.09e+008
	Manual Modification	Yes
	Amount:	642. (ng/mL)
	% Accuracy:	107.00

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.6
	Area Counts:	7.10e+007
	Manual Modification	Yes
	Amount:	577. (ng/mL)
	% Accuracy:	96.20

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	1.06e+008
	Manual Modification	No
	Amount:	546. (ng/mL)
	% Accuracy:	91.00

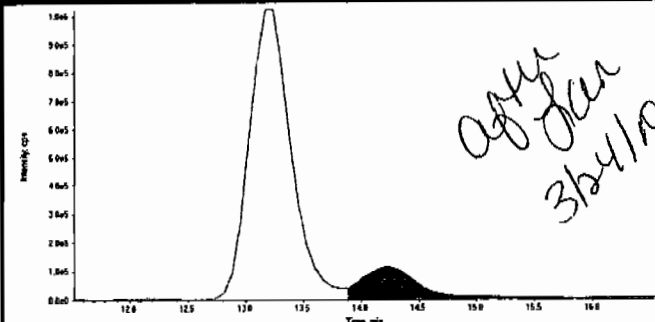
~~PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL~~

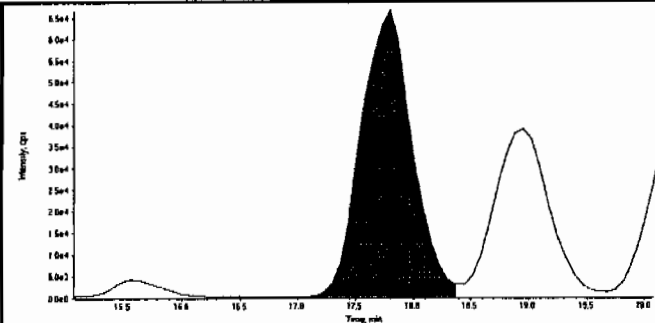


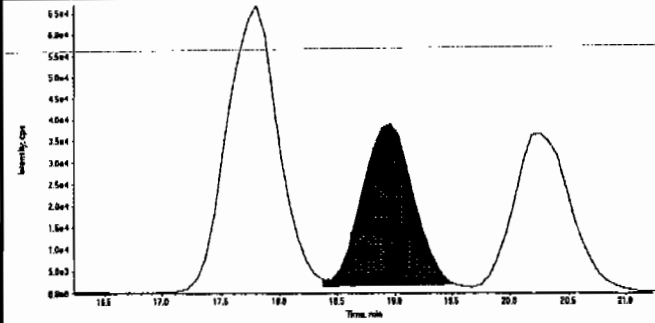
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

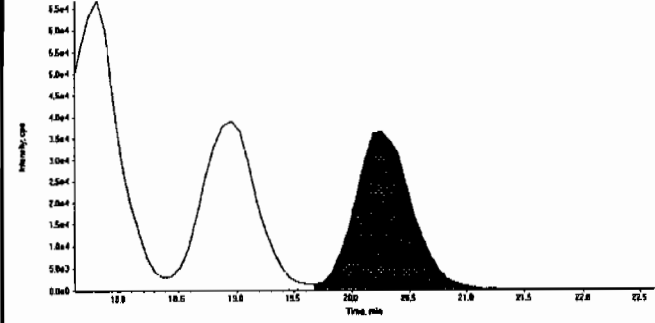
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LCMSMS#3

Data File	EXP0312048.wiff	Acquisition Date	3/13/2010 4:39:37 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.2
	Area Counts:	3.93e+006
	Manual Modification	Yes
	Amount:	623. (ng/mL)
	% Accuracy:	104.00

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.8
	Area Counts:	2.06e+006
	Manual Modification	No
	Amount:	582. (ng/mL)
	% Accuracy:	97.00

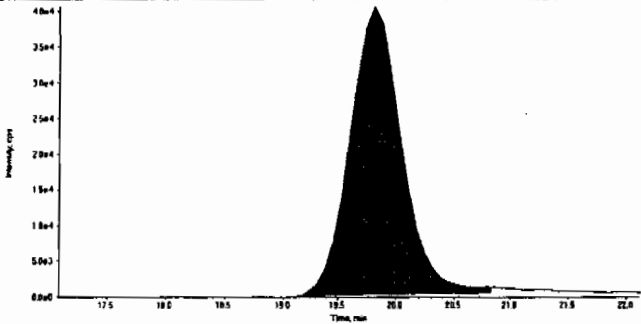
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	19.0
	Area Counts:	1.16e+006
	Manual Modification	No
	Amount:	596. (ng/mL)
	% Accuracy:	99.40

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.3
	Area Counts:	1.24e+006
	Manual Modification	No
	Amount:	572. (ng/mL)
	% Accuracy:	95.30

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312048.wiff	Acquisition Date	3/13/2010 4:39:37 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	19.6
	Actual RT:	19.8
	Area Counts:	1.27e+006
	Manual Modification	No
	Amount:	534. (ng/mL)
	% Accuracy:	89.00

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/13/10
 Time of Injection 0439
 Standard Number WXX100312-56CCV
 Data File EXP0312048a

HMX	77.1
RDX	92.4
TNX	88.9
DNX	89.3
MNX	90.9
135-Trinitrobenzene	89.0
13-Dinitrobenzene	93.7
Tetryl	109.0
246-Trinitrotoluene	91.7
Nitrobenzene	103.0
34-dinitrotoluene	101.0
26-dinitrotoluene	107.0
24-dinitrotoluene	96.2
4-Amino-26-dinitrotoluene	91.0
2-Amino-46-dinitrotoluene	104.0
2-Nitrotoluene	97.0
4-Nitrotoluene	99.4
3-Nitrotoluene	95.3
PETN	89.0

TOTAL

1804.9

hmx 03/24/10

AVERAGE

✓ 95.0

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

lar
3/24/10

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0312050.wiff

Analysis Date: 13-MAR-10 05:32

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	45.7	114	
2,4,6-Trinitrotoluene	40	47.8	119	
2,4-Dinitrotoluene	40	41.4	103	
2,6-Dinitrotoluene	40	28.8	72	
2-Amino-4,6-dinitrotoluene	40	33.4	83	
3,4-Dinitrotoluene	20	22.5	113	
4-Amino-2,6-dinitrotoluene	40	44.9	112	
DNX	40	39.6	99	
HMX	40	40.9	102	
MX	40	37.8	95	
Nitrobenzene	40	41.2	103	
PETN	40	39.7	99	
RDX	40	41.3	103	
TNX	40	37.9	95	
Tetryl	40	50.5	126	
m-Dinitrobenzene	40	43.2	108	
m-Nitrotoluene	40	42	105	
o-Nitrotoluene	40	42.8	107	
p-Nitrotoluene	40	38.8	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%

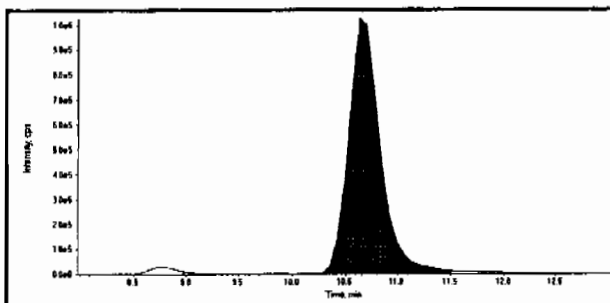
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

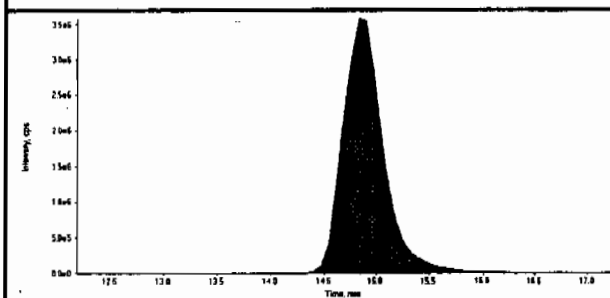
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LCMSMS#3

Data File	EXP0312050.wiff	Acquisition Date	3/13/2010 5:32:21 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



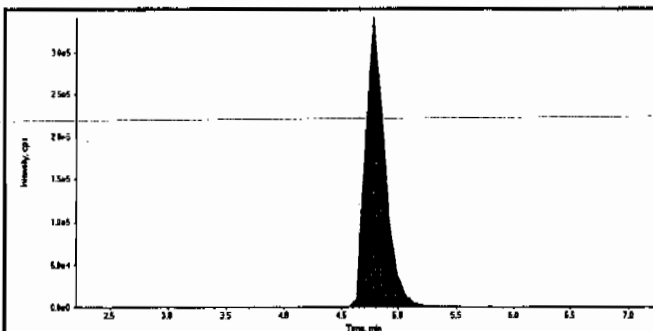
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	22100000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

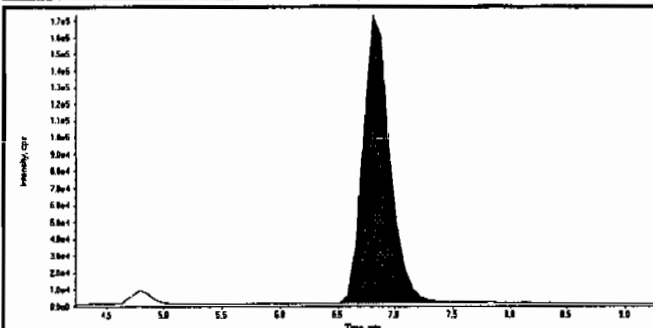


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	98200000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.12e+006
Manual Modification	No
Amount:	40.9 (ng/mL)
% Accuracy:	102.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	2.87e+006
Manual Modification	No
Amount:	41.3 (ng/mL)
% Accuracy:	103.00

Handwritten signatures and dates:
 03/24/10
 03/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312050.wiff	Acquisition Date	3/13/2010 5:32:21 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.14
	Area Counts:	2.70e+006
	Manual Modification	No
	Amount:	37.9 (ng/mL)
	% Accuracy:	94.90

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	2.51e+006
	Manual Modification	No
	Amount:	39.6 (ng/mL)
	% Accuracy:	99.10

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.15
	Area Counts:	1.32e+006
	Manual Modification	No
	Amount:	37.8 (ng/mL)
	% Accuracy:	94.50

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.12
	Area Counts:	1.23e+007
	Manual Modification	No
	Amount:	45.7 (ng/mL)
	% Accuracy:	114.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312050.wiff	Acquisition Date	3/13/2010 5:32:21 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.8
	Area Counts:	5.09e+006
	Manual Modification	No
	Amount:	43.2 (ng/mL)
	% Accuracy:	108.00

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.9
	Area Counts:	7.70e+006
	Manual Modification	No
	Amount:	50.5 (ng/mL)
	% Accuracy:	126.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	2.20e+007
	Manual Modification	No
	Amount:	47.8 (ng/mL)
	% Accuracy:	119.00

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	2.76e+005
	Manual Modification	No
	Amount:	41.2 (ng/mL)
	% Accuracy:	103.00

Before Ser 324110

Sample Name: "VXX100319-37C21" Sample ID: "J1LBF" File: "EXP03 2050.wif"

Peak Name: "24-dichlorobenz" Mass(es): "182.046.0 amu"

Comment: "COMBEXP_C" Annotation: "

Sample Index: 1 QC

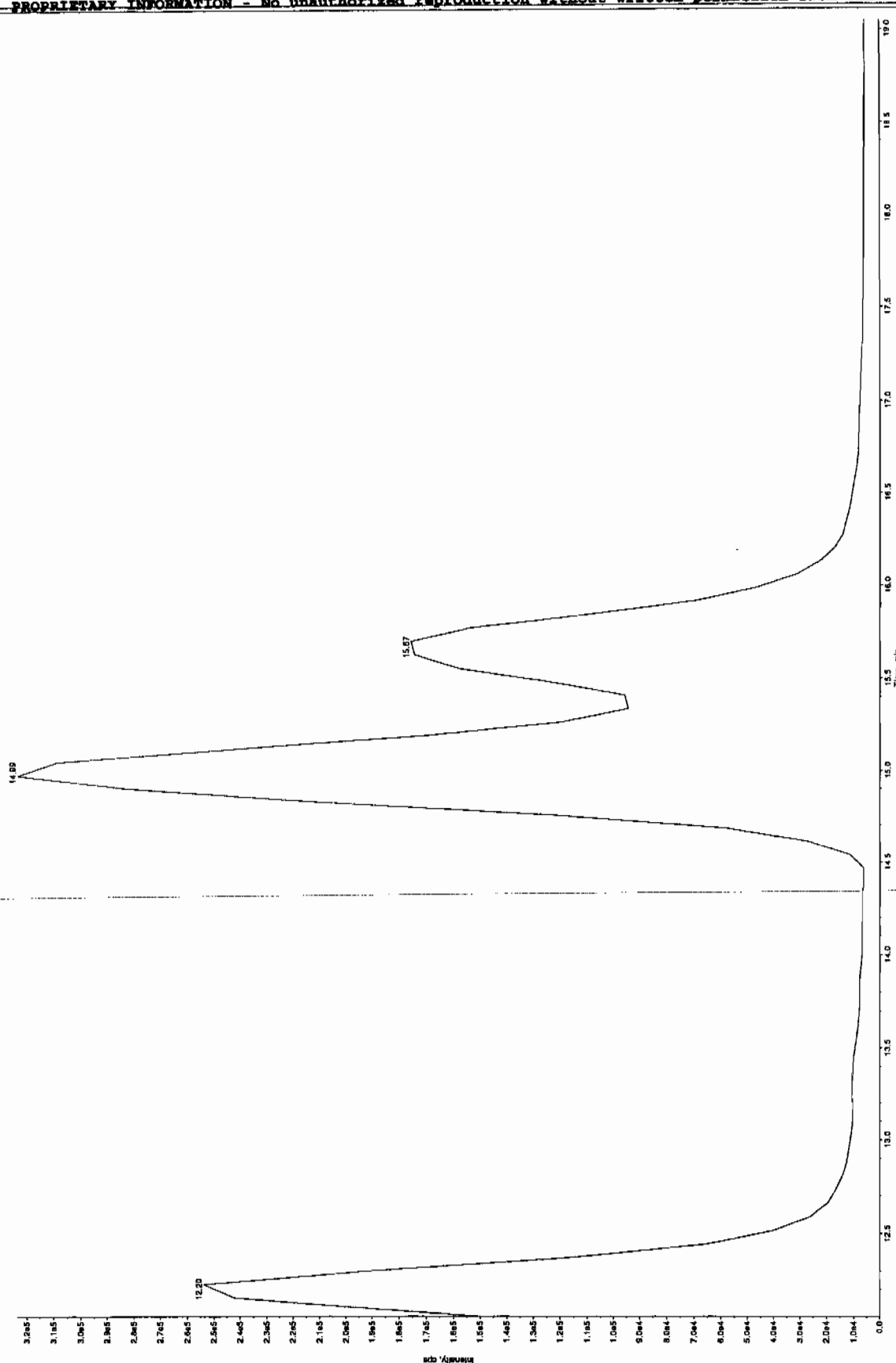
Concentration: 40.6 ng/mL

Calculated Conc: 6.96 ng/mL

Acq. Date: 3/13/2016

Acq. Time: 9:32:21 AM

Modified: No



GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312050.wiff	Acquisition Date	3/13/2010 5:32:21 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	5.45e+006
	Manual Modification	No
	Amount:	22.5 (ng/mL)
	% Accuracy:	113.00

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	15.0
	Area Counts:	8.23e+006
	Manual Modification	No
	Amount:	28.8 (ng/mL)
	% Accuracy:	71.90

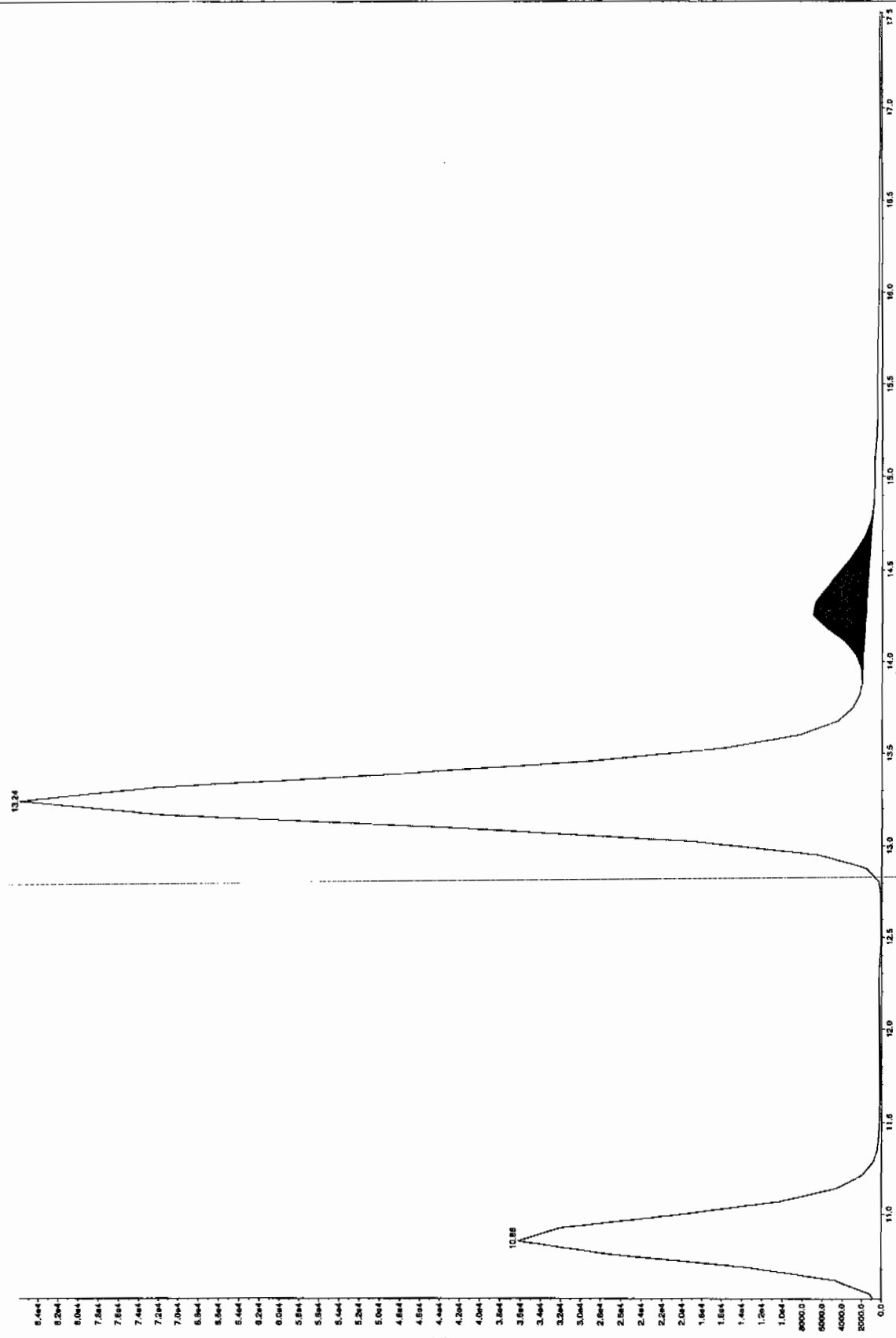
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.7
	Area Counts:	4.78e+006
	Manual Modification	Yes
	Amount:	41.4 (ng/mL)
	% Accuracy:	103.00

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	8.22e+006
	Manual Modification	No
	Amount:	44.9 (ng/mL)
	% Accuracy:	112.00

Before Scan 312410

Sample Name: W0210031257201 Sample ID: 11187 File: E00312000.wif
Peak Name: 2-Amino-2-deoxyribose-5-phosphate Molar Mass: 197.07100 amu

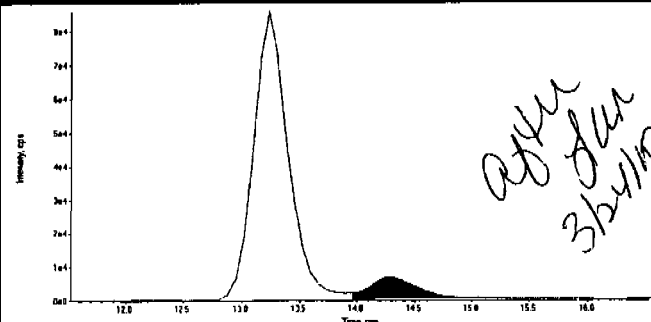
Sample Index: 1 QC
Concentration: 40.0 ng/mL
Injection Volume: 1.0 µL
Acq. Date: 3/13/2010
Acq. Time: 5:32:11 AM
Peak Name: 2-Amino-2-deoxyribose-5-phosphate
Peak Height: 4000.0 cps
Peak Width: 0.00 sec
Peak Area: 1000.0
Peak Retention Time: 14.0 min
Peak Relative RT: No
Peak Type: Valley
Retention Time: 14.0 min
Height: 1.11e+003 cps
Area: 11.1
Area Time: 14.0 min

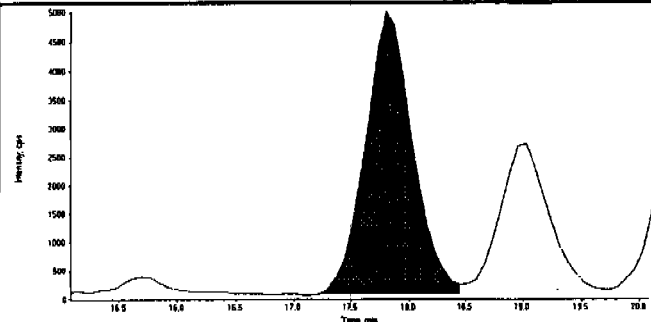


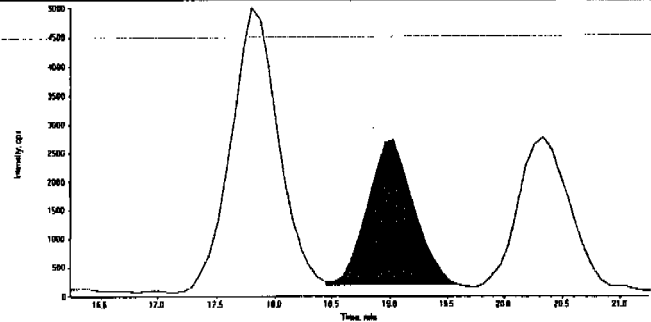
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

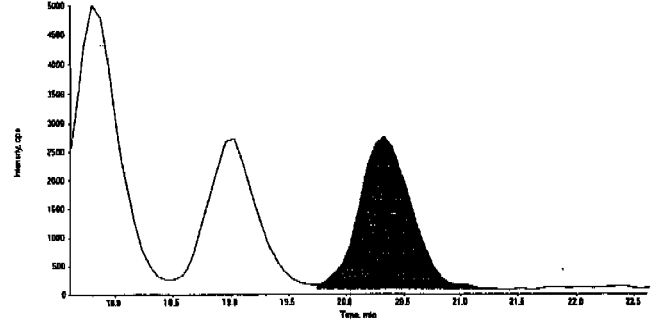
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312050.wiff	Acquisition Date	3/13/2010 5:32:21 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.3
	Area Counts:	1.98e+005
	Manual Modification	Yes
	Amount:	33.4 (ng/mL)
	% Accuracy:	83.40

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.8
	Area Counts:	1.42e+005
	Manual Modification	No
	Amount:	42.8 (ng/mL)
	% Accuracy:	107.00

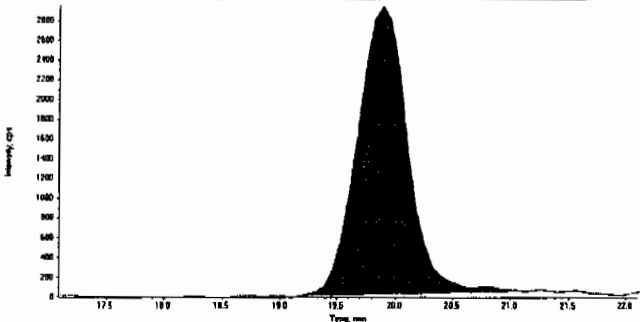
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	19.0
	Area Counts:	7.10e+004
	Manual Modification	No
	Amount:	38.8 (ng/mL)
	% Accuracy:	96.90

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.3
	Area Counts:	8.56e+004
	Manual Modification	No
	Amount:	42.0 (ng/mL)
	% Accuracy:	105.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312050.wiff	Acquisition Date	3/13/2010 5:32:21 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	19.6
	Actual RT:	19.9
	Area Counts:	8.86e+004
	Manual Modification	No
	Amount:	39.7 (ng/mL)
	% Accuracy:	99.20

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/13/10
 Time of Injection 0532
 Standard Number WXX100312-57CRI
 Data File EXP0312050a

HMX	102.0
RDX	103.0
TNX	94.9
DNX	99.1
MNX	94.5
135-Trinitrobenzene	114.0
13-Dinitrobenzene	108.0
Tetryl	126.0
246-Trinitrotoluene	119.0
Nitrobenzene	103.0
34-dinitrotoluene	113.0
26-dinitrotoluene	71.9
24-dinitrotoluene	103.0
4-Amino-26-dinitrotoluene	112.0
2-Amino-46-dinitrotoluene	83.4
2-Nitrotoluene	107.0
4-Nitrotoluene	96.9
3-Nitrotoluene	105.0
PETN	99.2

TOTAL

1954.9

HMM 03/24/10

AVERAGE

✓ 102.9

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Jar
3/24/10

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0312061.wiff

Analysis Date: 13-MAR-10 10:22

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
o-Nitrotoluene	600	603	100	
p-Nitrotoluene	600	586	98	
1,3,5-Trinitrobenzene	600	551	92	
2,4,6-Trinitrotoluene	600	555	92	
2,4-Dinitrotoluene	600	577	96	
2,6-Dinitrotoluene	600	622	104	
2-Amino-4,6-dinitrotoluene	600	693	116	
3,4-Dinitrotoluene	300	285	95	
4-Amino-2,6-dinitrotoluene	600	587	98	
DNX	600	561	94	
HMX	600	531	89	
MNX	600	600	100	
Nitrobenzene	600	611	102	
PETN	600	585	98	
RDX	600	592	99	
TNX	600	583	97	
Tetryl	600	684	114	
m-Dinitrobenzene	600	552	92	
m-Nitrotoluene	600	595	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 70-130%

Other Target Analytes 80-120%

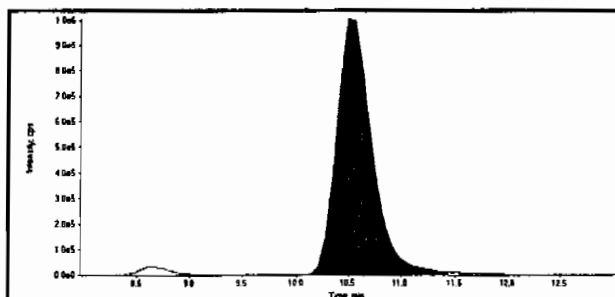
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

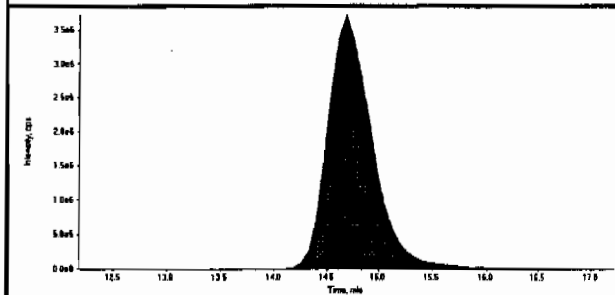
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

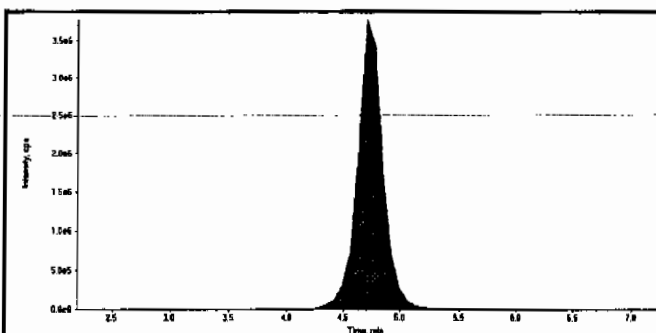
Data File	EXP0312061.wiff	Acquisition Date	3/13/2010 10:22:56 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



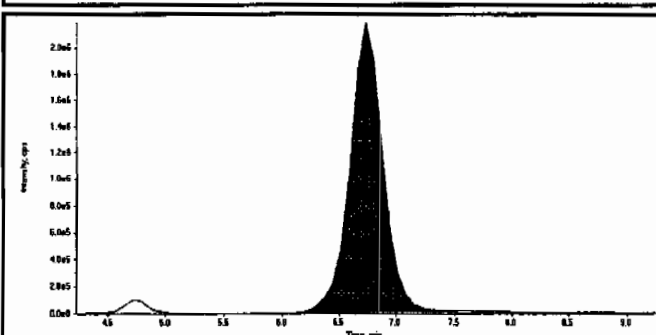
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.50
Area Counts:	24100000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.70
Area Counts:	111000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.70
Area Counts:	5.84e+007
Manual Modification	No
Amount:	531. (ng/mL)
% Accuracy:	88.50



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.73
Area Counts:	4.49e+007
Manual Modification	No
Amount:	592. (ng/mL)
% Accuracy:	98.70

Handwritten:
3/24/10
Lar
3/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312061.wiff	Acquisition Date	3/13/2010 10:22:56 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	4.53e+007
	Manual Modification	No
	Amount:	583. (ng/mL)
	% Accuracy:	97.10

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.35
	Area Counts:	3.88e+007
	Manual Modification	No
	Amount:	561. (ng/mL)
	% Accuracy:	93.60

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	2.29e+007
	Manual Modification	No
	Amount:	600. (ng/mL)
	% Accuracy:	99.90

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	8.97
	Area Counts:	1.62e+008
	Manual Modification	No
	Amount:	551. (ng/mL)
	% Accuracy:	91.90

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312061.wiff	Acquisition Date	3/13/2010 10:22:56 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.6
	Area Counts:	7.12e+007
	Manual Modification	No
	Amount:	552. (ng/mL)
	% Accuracy:	92.00

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.7
	Area Counts:	1.14e+008
	Manual Modification	No
	Amount:	684. (ng/mL)
	% Accuracy:	114.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	2.89e+008
	Manual Modification	No
	Amount:	555. (ng/mL)
	% Accuracy:	92.40

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.8
	Area Counts:	4.47e+006
	Manual Modification	No
	Amount:	611. (ng/mL)
	% Accuracy:	102.00

Before Jan 3/24/10

Sample Name: "WV100134000" Sample ID: "1177" File: "EXP0134001.H" File: "EXP0134001.H"

Peak Name: "24-dinitrobenzene" Method: "MS.DMS.0.M" Method: "MS.DMS.0.M"

Comment: "LONSEXP_C" Annotation: ""

Sample Index: 1

Sample Type: GC

Sample Concentration: 500 ng/mL

Sample Volume: 0.50 ng/mL

Acq. Date: 3/13/2010

Acq. Time: 10:22:58 AM

Acq. File: No

Acq. File: No

Acq. File: No

Acq. File: No

Acq. File: No

Acq. File: No

Acq. File: No

Acq. File: No

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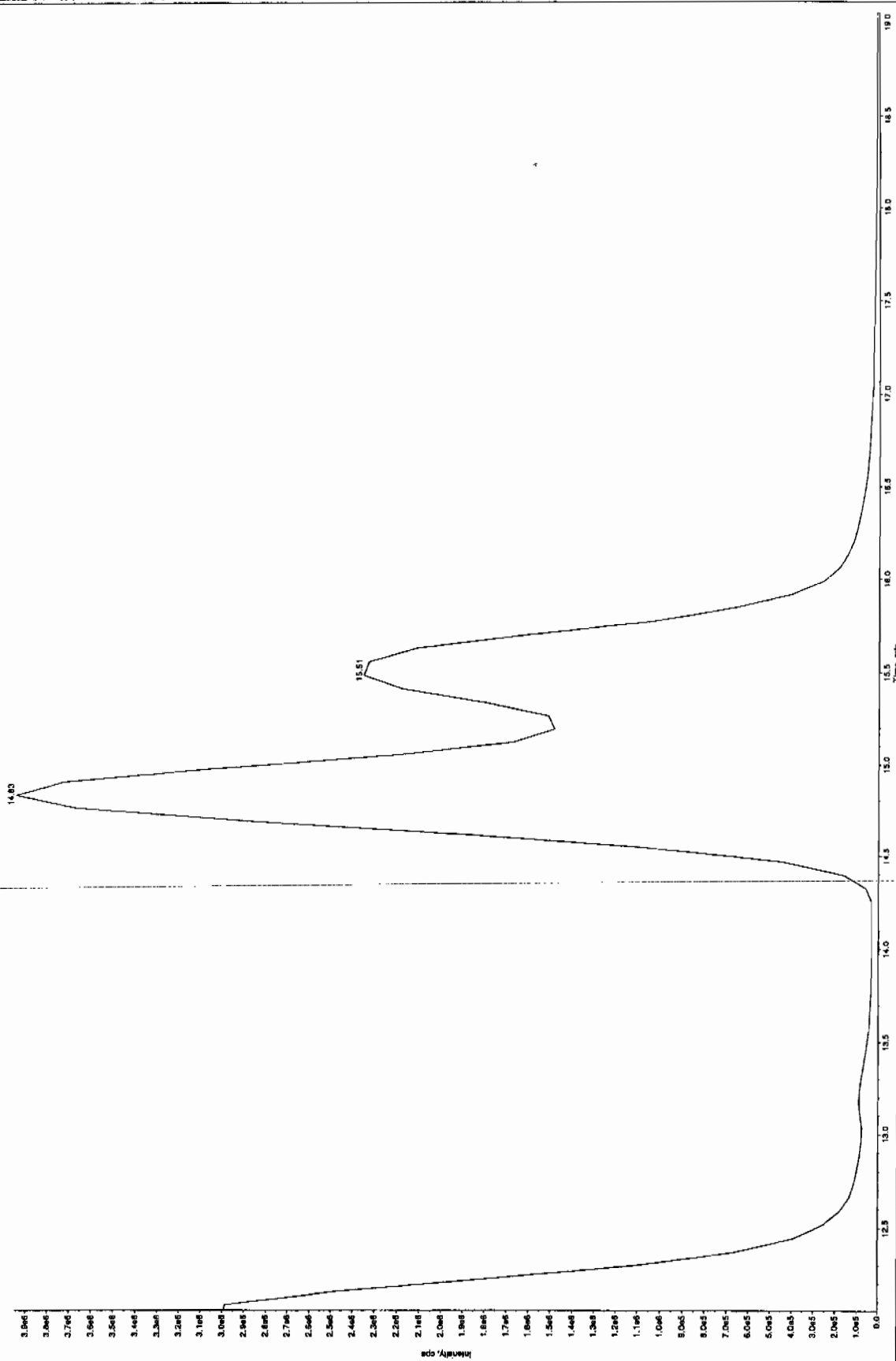
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Acq. File: No



GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312061.wiff	Acquisition Date	3/13/2010 10:22:56 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.0
	Area Counts:	7.80e+007
	Manual Modification	No
	Amount:	285. (ng/mL)
	% Accuracy:	94.90

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	14.8
	Area Counts:	1.12e+008
	Manual Modification	No
	Amount:	622. (ng/mL)
	% Accuracy:	104.00

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.5
	Area Counts:	7.55e+007
	Manual Modification	Yes
	Amount:	577. (ng/mL)
	% Accuracy:	96.10

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.1
	Area Counts:	1.22e+008
	Manual Modification	No
	Amount:	587. (ng/mL)
	% Accuracy:	97.80

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312061.wiff	Acquisition Date	3/13/2010 10:22:56 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.1
	Area Counts:	4.66e+006
	Manual Modification	No
	Amount:	693. (ng/mL)
	% Accuracy:	116.00

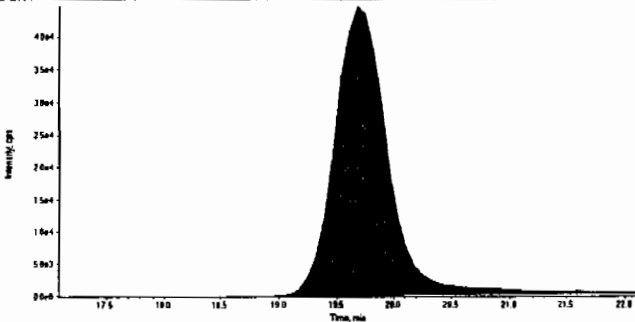
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.7
	Area Counts:	2.27e+006
	Manual Modification	No
	Amount:	603. (ng/mL)
	% Accuracy:	100.00

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	18.8
	Area Counts:	1.22e+006
	Manual Modification	No
	Amount:	586. (ng/mL)
	% Accuracy:	97.70

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.2
	Area Counts:	1.37e+006
	Manual Modification	No
	Amount:	595. (ng/mL)
	% Accuracy:	99.10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312061.wiff	Acquisition Date	3/13/2010 10:22:56 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.7
		Area Counts:	1.48e+006
		Manual Modification	No
		Amount:	585. (ng/mL)
		% Accuracy:	97.60

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/13/10
 Time of Injection 1022
 Standard Number WXX100312-56CCV
 Data File EXP0312061a

HMX	88.5
RDX	98.7
TNX	97.1
DNX	93.6
MNX	99.9
135-Trinitrobenzene	91.9
13-Dinitrobenzene	92.0
Tetryl	114.0
246-Trinitrotoluene	92.4
Nitrobenzene	102.0
34-dinitrotoluene	94.9
26-dinitrotoluene	104.0
24-dinitrotoluene	96.1
4-Amino-26-dinitrotoluene	97.8
2-Amino-46-dinitrotoluene	116.0
2-Nitrotoluene	100.0
4-Nitrotoluene	97.7
3-Nitrotoluene	99.1
PETN	97.6

TOTAL

1873.3

Time 03/24/10

AVERAGE

✓ 98.6

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

*Law
3/24/10*

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0312063.wiff

Analysis Date: 13-MAR-10 11:15

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene	40	30.3	76	
2-Amino-4,6-dinitrotoluene	40	41.9	105	
3,4-Dinitrotoluene	20	21.8	109	
4-Amino-2,6-dinitrotoluene	40	43.7	109	
DNX	40	41.2	103	
HMX	40	44.4	111	
MXN	40	36.9	92	
Nitrobenzene	40	40.3	101	
PETN	40	37.2	93	
RDX	40	40.3	101	
TNX	40	40	100	
Tetryl	40	52.6	131	
m-Dinitrobenzene	40	46.8	117	
m-Nitrotoluene	40	39.9	100	
o-Nitrotoluene	40	39	98	
p-Nitrotoluene	40	35.3	88	
1,3,5-Trinitrobenzene	40	48.1	120	
2,4,6-Trinitrotoluene	40	48.2	121	
2,4-Dinitrotoluene	40	43.3	108	

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%

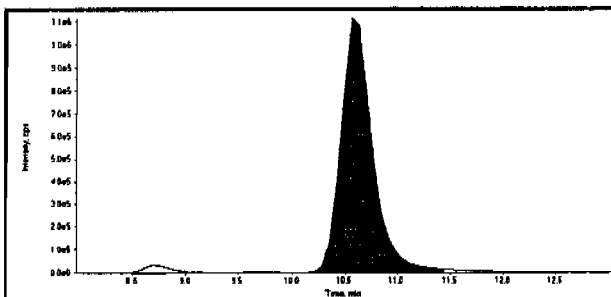
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

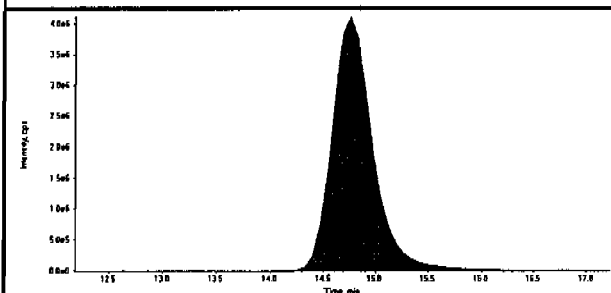
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312063.wiff	Acquisition Date	3/13/2010 11:15:44 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



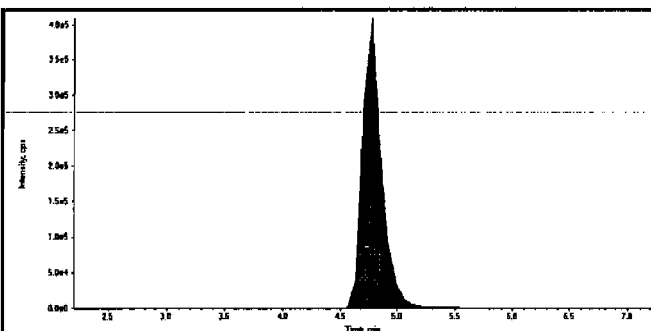
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	23800000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

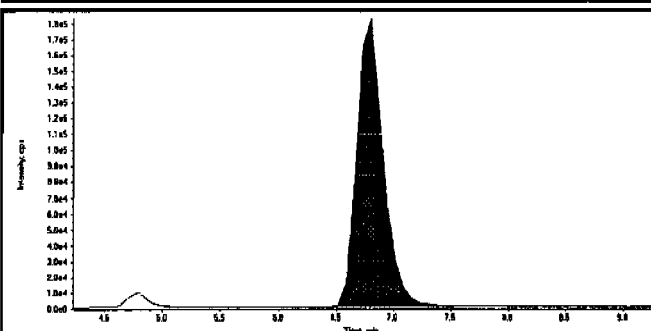


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	112000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.82e+006
Manual Modification	No
Amount:	44.4 (ng/mL)
% Accuracy:	111.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	3.02e+006
Manual Modification	No
Amount:	40.3 (ng/mL)
% Accuracy:	101.00

LER
3/24/10
4mm
03/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312063.wiff	Acquisition Date	3/13/2010 11:15:44 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	3.06e+006
	Manual Modification	No
	Amount:	40.0 (ng/mL)
	% Accuracy:	99.90

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	2.81e+006
	Manual Modification	No
	Amount:	41.2 (ng/mL)
	% Accuracy:	103.00

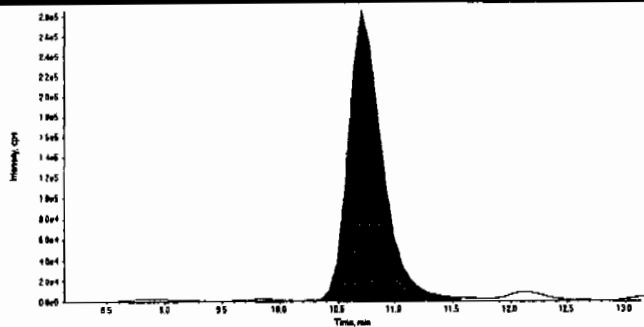
	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	1.39e+006
	Manual Modification	No
	Amount:	36.9 (ng/mL)
	% Accuracy:	92.20

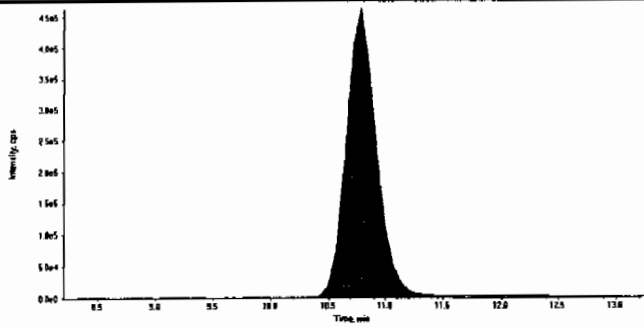
	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	1.40e+007
	Manual Modification	No
	Amount:	48.1 (ng/mL)
	% Accuracy:	120.00

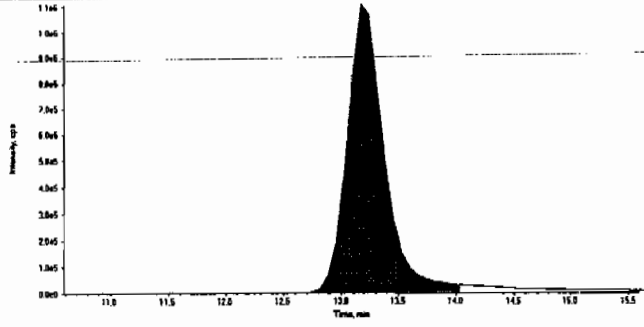
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

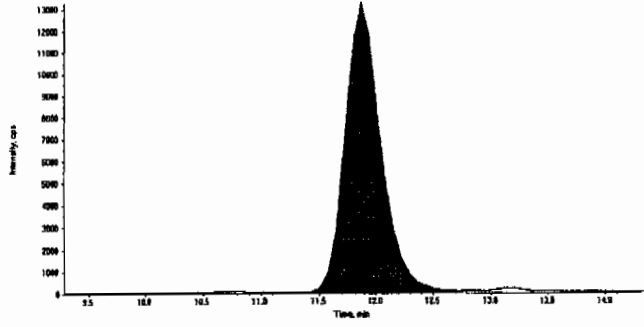
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312063.wiff	Acquisition Date	3/13/2010 11:15:44 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.7
	Area Counts:	5.96e+006
	Manual Modification	No
	Amount:	46.8 (ng/mL)
	% Accuracy:	117.00

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.8
	Area Counts:	8.65e+006
	Manual Modification	No
	Amount:	52.6 (ng/mL)
	% Accuracy:	131.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	2.53e+007
	Manual Modification	No
	Amount:	48.2 (ng/mL)
	% Accuracy:	121.00

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	2.91e+005
	Manual Modification	No
	Amount:	40.3 (ng/mL)
	% Accuracy:	101.00

Before Jan 31/24/00

Sample Name: "WXX001010303" Sample ID: "1188" File: "EXP0010003.wdf"

Peak Name: "2,4-dichlorobenzene" Mass(es): "162.0468 0 amu"

Comment: "LC/MS/EXP_C" Acquisition: "1"

Sample Index: "1"

Sample Type: "GC"

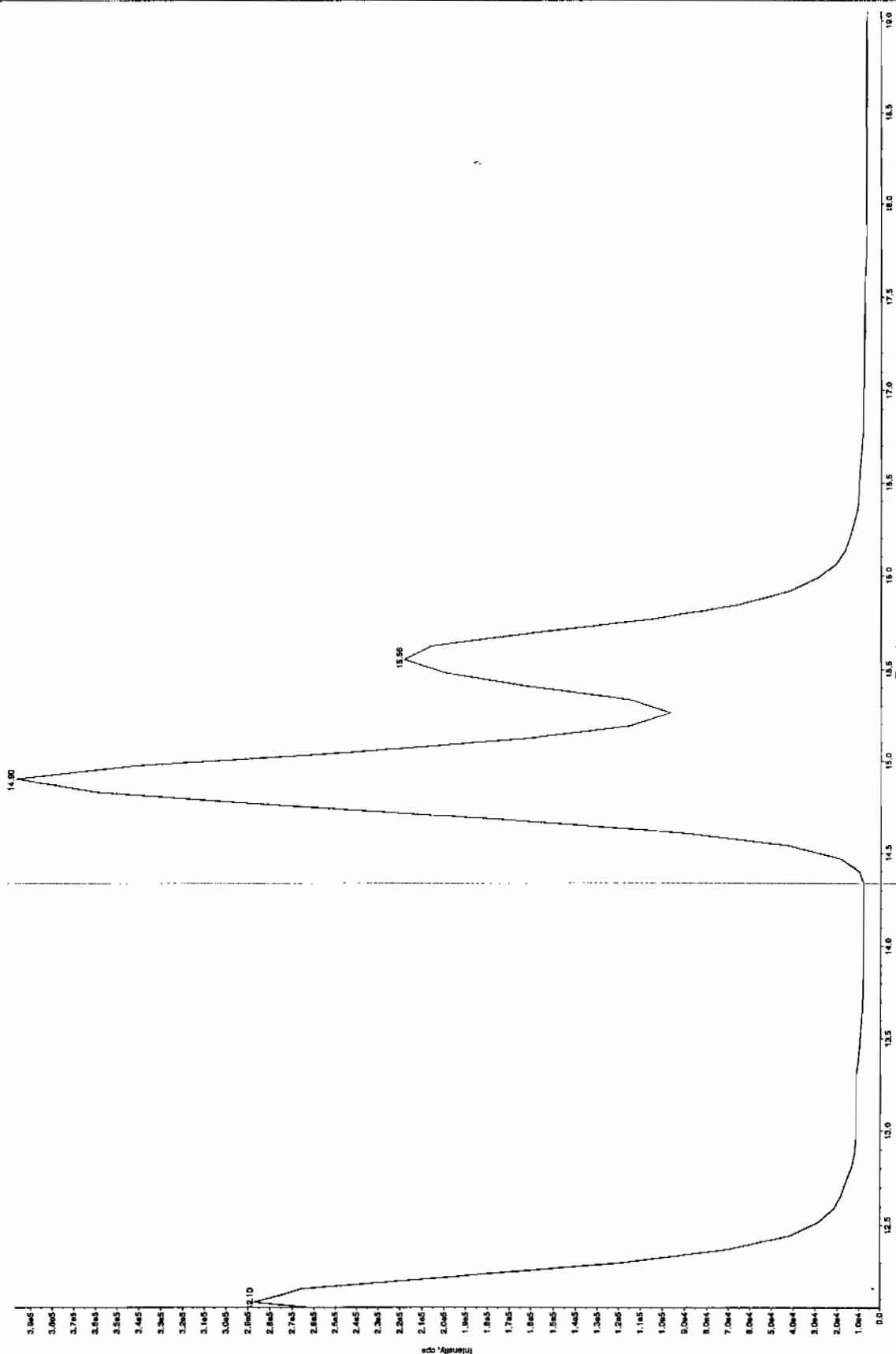
Sample Concentration: "40.0 mg/mL"

Calculated Conc: "0.00 mg/mL"

Acq. Date: "1/13/2010"

Acq. Time: "11:15:44 AM"

Integrator: "No"



GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312063.wiff	Acquisition Date	3/13/2010 11:15:44 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.1
	Area Counts:	6.00e+006
	Manual Modification	No
	Amount:	21.8 (ng/mL)
	% Accuracy:	109.00

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	14.9
	Area Counts:	9.65e+006
	Manual Modification	No
	Amount:	30.3 (ng/mL)
	% Accuracy:	75.80

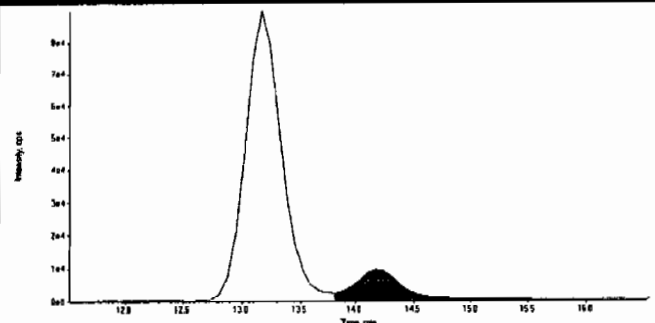
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.6
	Area Counts:	5.70e+006
	Manual Modification	Yes
	Amount:	43.3 (ng/mL)
	% Accuracy:	108.00

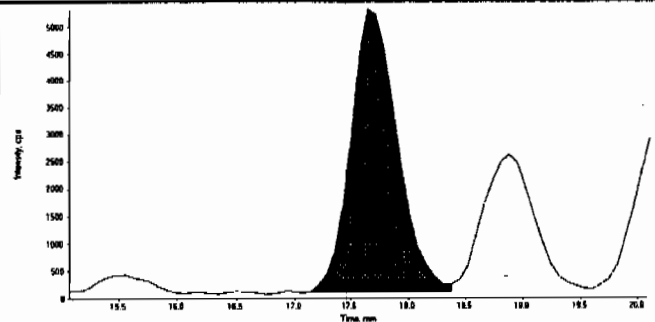
	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	9.12e+006
	Manual Modification	No
	Amount:	43.7 (ng/mL)
	% Accuracy:	109.00

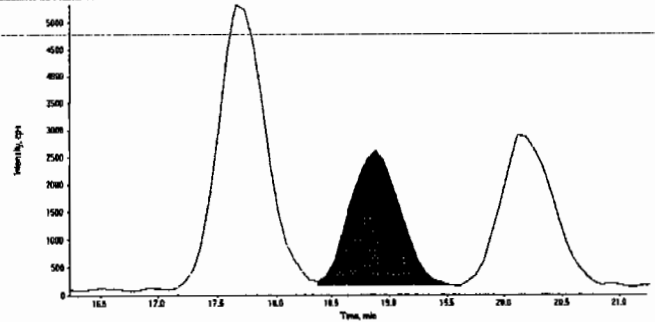
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

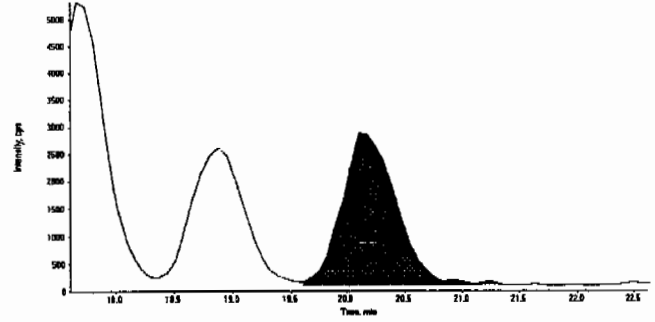
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312063.wiff	Acquisition Date	3/13/2010 11:15:44 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.2
	Area Counts:	2.83e+005
	Manual Modification	No
	Amount:	41.9 (ng/mL)
	% Accuracy:	105.00

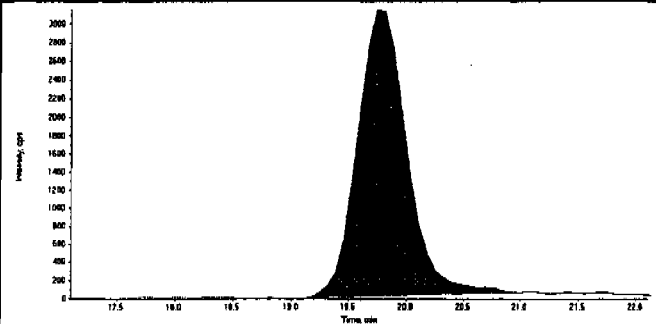
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.7
	Area Counts:	1.48e+005
	Manual Modification	No
	Amount:	39.0 (ng/mL)
	% Accuracy:	97.60

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	18.9
	Area Counts:	7.36e+004
	Manual Modification	No
	Amount:	35.3 (ng/mL)
	% Accuracy:	88.20

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.1
	Area Counts:	9.27e+004
	Manual Modification	No
	Amount:	39.9 (ng/mL)
	% Accuracy:	99.80

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312063.wiff	Acquisition Date	3/13/2010 11:15:44 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.7
		Area Counts:	9.45e+004
		Manual Modification	No
		Amount:	37.2 (ng/mL)
		% Accuracy:	92.90

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/13/10
 Time of Injection 1115
 Standard Number WXX100312-57CRI
 Data File EXP0312063a

HMX	111.0
RDY	101.0
TNX	99.9
DNX	103.0
MNX	92.2
135-Trinitrobenzene	120.0
13-Dinitrobenzene	117.0
Tetryl	131.0
246-Trinitrotoluene	121.0
Nitrobenzene	101.0
34-dinitrotoluene	109.0
26-dinitrotoluene	75.8
24-dinitrotoluene	108.0
4-Amino-26-dinitrotoluene	109.0
2-Amino-46-dinitrotoluene	105.0
2-Nitrotoluene	97.6
4-Nitrotoluene	88.2
3-Nitrotoluene	99.8
PETN	92.9

TOTAL

1982.4

H/MC 03/24/10

AVERAGE

✓ 104.3

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Sar
3/24/10

7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0312074.wiff

Analysis Date: 13-MAR-10 16:06

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	574	96	
2,4,6-Trinitrotoluene	600	530	88	
2,4-Dinitrotoluene	600	517	86	
2,6-Dinitrotoluene	600	612	102	
2-Amino-4,6-dinitrotoluene	600	619	103	
3,4-Dinitrotoluene	300	269	90	
4-Amino-2,6-dinitrotoluene	600	545	91	
DNX	600	581	97	
HMX	600	533	89	
MXN	600	618	103	
Nitrobenzene	600	617	103	
PETN	600	578	96	
RDX	600	626	104	
TNX	600	600	100	
Tetryl	600	679	113	
m-Dinitrobenzene	600	587	98	
m-Nitrotoluene	600	522	87	
o-Nitrotoluene	600	541	90	
p-Nitrotoluene	600	523	87	

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%

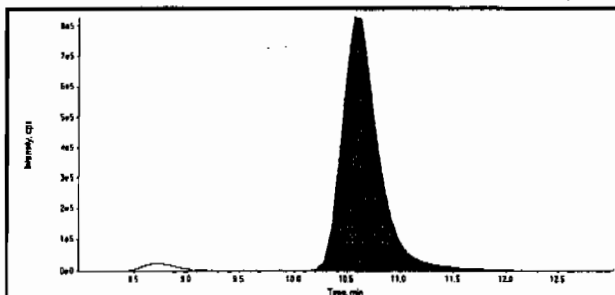
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

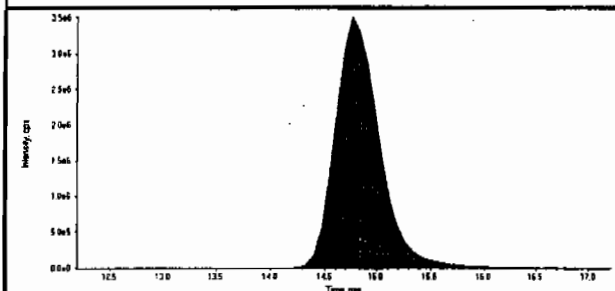
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

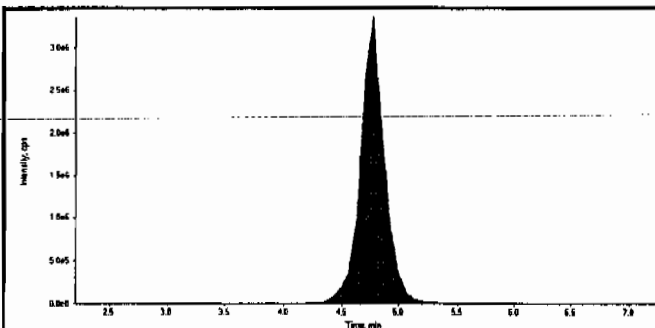
Data File	EXP0312074.wiff	Acquisition Date	3/13/2010 4:06:21 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



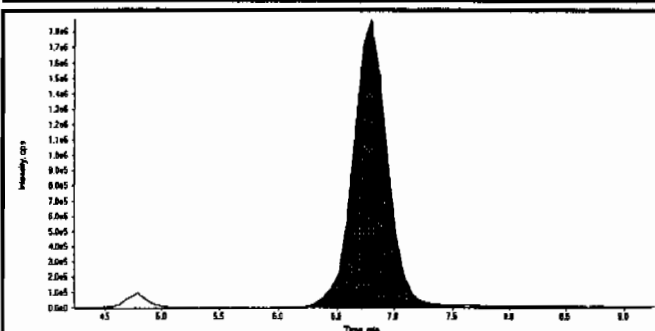
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	20300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	105000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.93e+007
Manual Modification	No
Amount:	533. (ng/mL)
% Accuracy:	88.90



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	3.99e+007
Manual Modification	No
Amount:	626. (ng/mL)
% Accuracy:	104.00

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GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312074.wiff	Acquisition Date	3/13/2010 4:06:21 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	3.91e+007
	Manual Modification	No
	Amount:	600. (ng/mL)
	% Accuracy:	100.00

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	3.38e+007
	Manual Modification	No
	Amount:	581. (ng/mL)
	% Accuracy:	96.80

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	1.98e+007
	Manual Modification	No
	Amount:	618. (ng/mL)
	% Accuracy:	103.00

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	1.42e+008
	Manual Modification	No
	Amount:	574. (ng/mL)
	% Accuracy:	95.60

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312074.wiff	Acquisition Date	3/13/2010 4:06:21 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

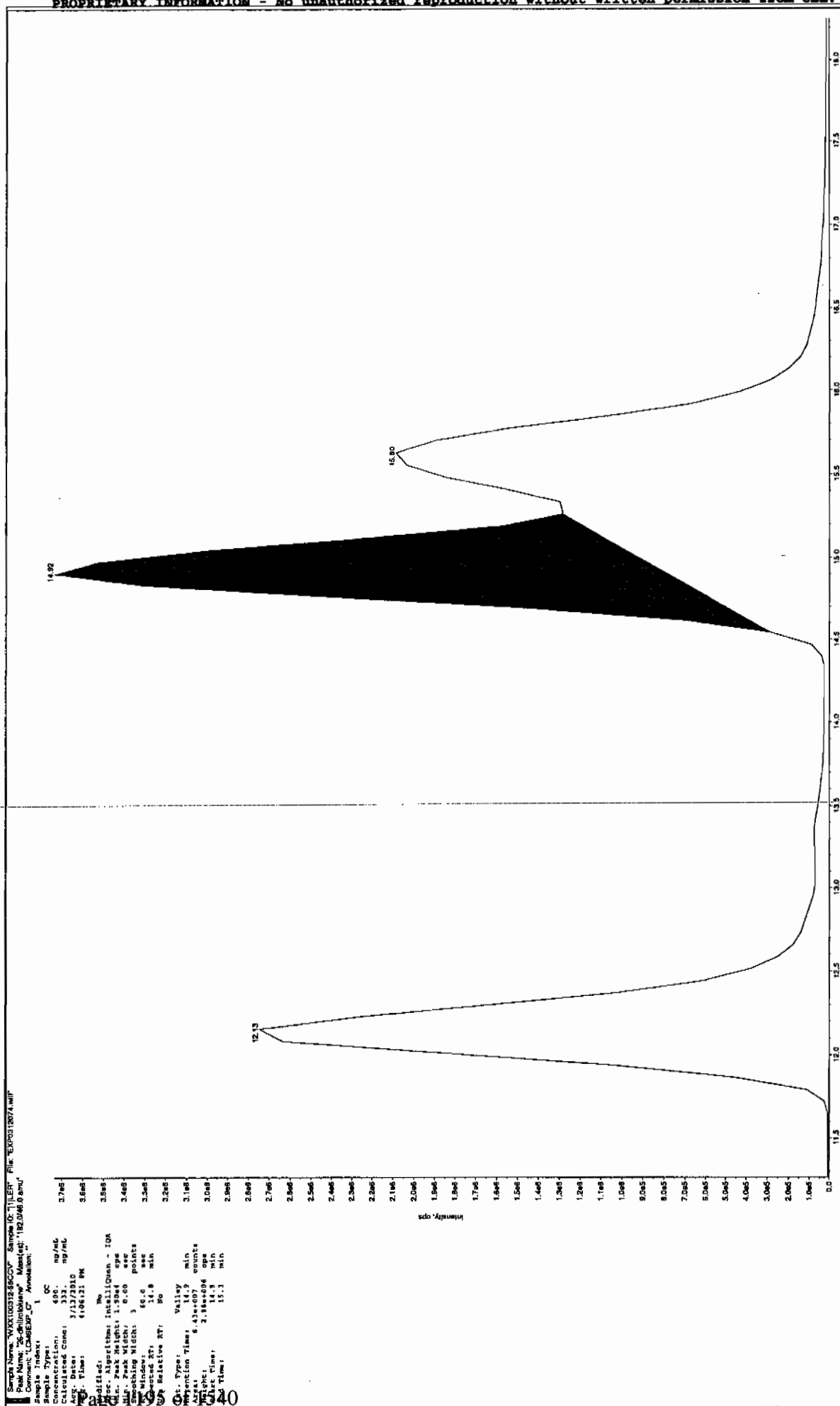
	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.7
	Area Counts:	6.36e+007
	Manual Modification	No
	Amount:	587. (ng/mL)
	% Accuracy:	97.80

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.8
	Area Counts:	9.52e+007
	Manual Modification	No
	Amount:	679. (ng/mL)
	% Accuracy:	113.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	2.60e+008
	Manual Modification	No
	Amount:	530. (ng/mL)
	% Accuracy:	88.30

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	3.79e+006
	Manual Modification	No
	Amount:	617. (ng/mL)
	% Accuracy:	103.00

Bigan Lar 3/24/00



Sample Name: WAX1003125620V Sample ID: T111EP File: E000312074.wif

Peak Name: "26-dimethylolam" Mass(es): 182.046.0 amu

Comment: "COMBEP_C" Annotation: "

Sample Index: 1

Concentration: 400 ng/mL

Calculated Conc: 332 ng/mL

Acq. Date: 3/13/2010

Acq. Time: 4:06:12 PM

Peak:

Peak Name: "26-dimethylolam" Mass(es): 182.046.0 amu

Peak Height: 1.39e5 cps

Peak Width: 0.06 points

Smoothing Width: 3

Window: 60.0 sec

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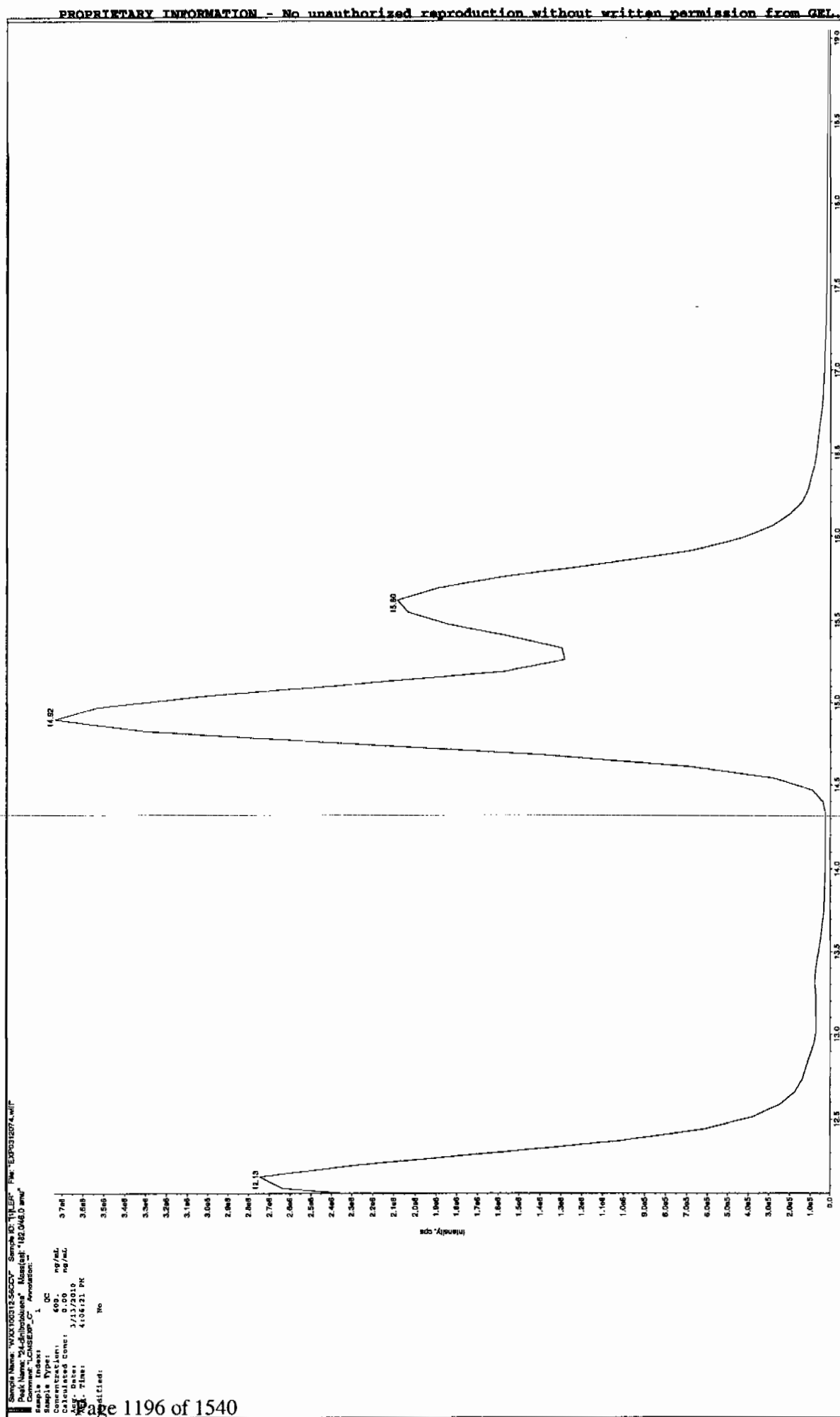
Window: 14.9 min

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Window: 14.9 min

Before Scan 314110



GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312074.wiff	Acquisition Date	3/13/2010 4:06:21 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	6.91e+007
	Manual Modification	No
	Amount:	269. (ng/mL)
	% Accuracy:	89.50

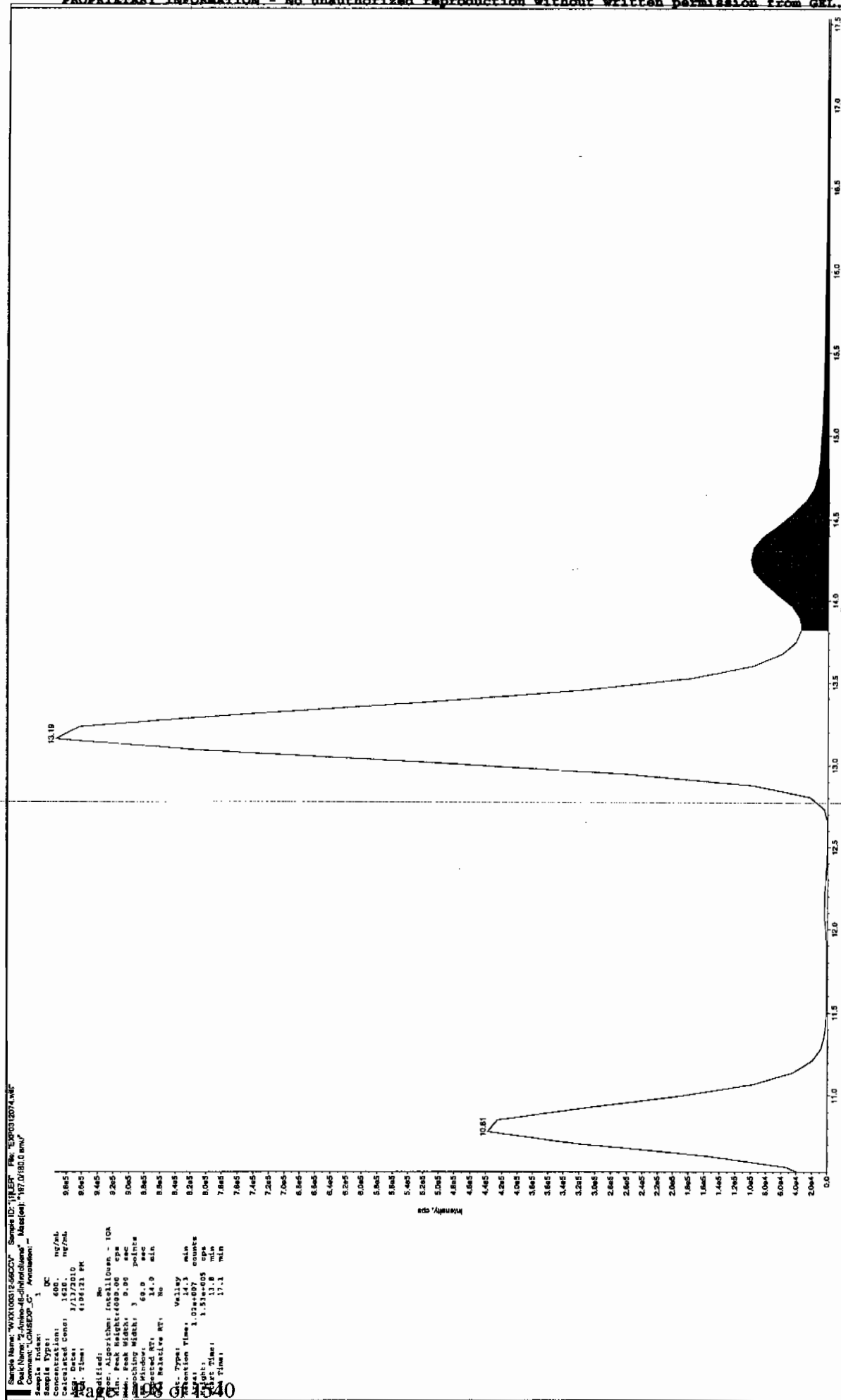
	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	14.9
	Area Counts:	1.04e+008
	Manual Modification	Yes
	Amount:	612. (ng/mL)
	% Accuracy:	102.00

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.6
	Area Counts:	6.35e+007
	Manual Modification	Yes
	Amount:	517. (ng/mL)
	% Accuracy:	86.10

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	1.06e+008
	Manual Modification	No
	Amount:	545. (ng/mL)
	% Accuracy:	90.90

Before Jan 3/24/10

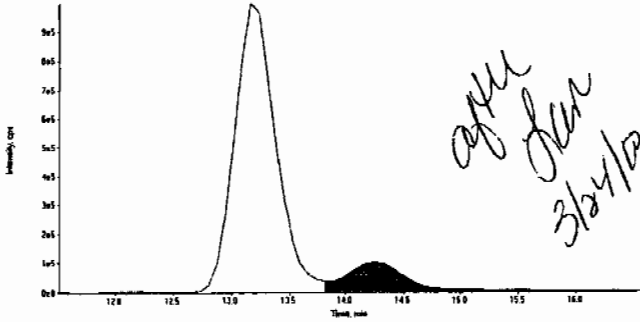
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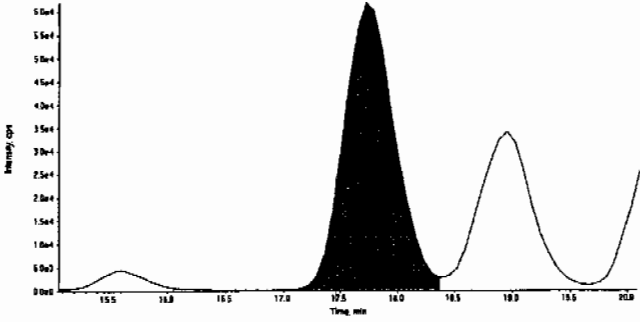


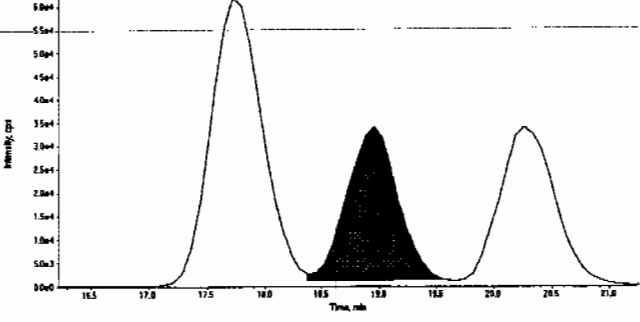
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

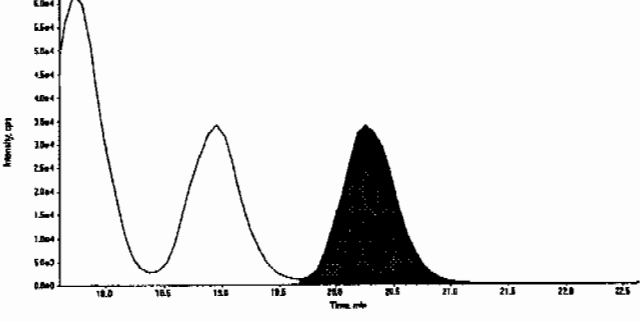
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312074.wiff	Acquisition Date	3/13/2010 4:06:21 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.3
	Area Counts:	3.91e+006
	Manual Modification	Yes
	Amount:	619. (ng/mL)
	% Accuracy:	103.00

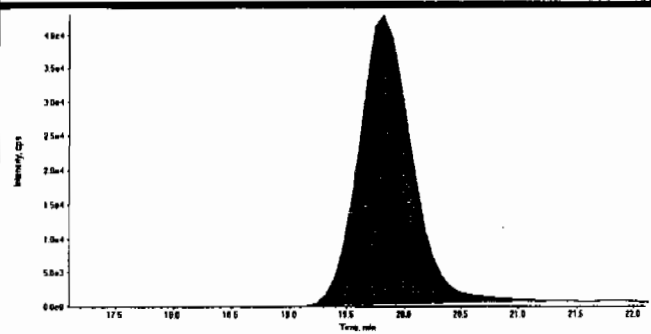
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.7
	Area Counts:	1.92e+006
	Manual Modification	No
	Amount:	541. (ng/mL)
	% Accuracy:	90.20

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	19.0
	Area Counts:	1.02e+006
	Manual Modification	No
	Amount:	523. (ng/mL)
	% Accuracy:	87.10

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.3
	Area Counts:	1.13e+006
	Manual Modification	No
	Amount:	522. (ng/mL)
	% Accuracy:	87.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312074.wiff	Acquisition Date	3/13/2010 4:06:21 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.8
		Area Counts:	1.37e+006
		Manual Modification	No
		Amount:	578. (ng/mL)
		% Accuracy:	96.30

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/13/10
 Time of Injection 1606
 Standard Number WXX100312-56CCV
 Data File EXP0312074a

HMX	88.9
RDX	104.0
TNX	100.0
DNX	96.8
MNX	103.0
135-Trinitrobenzene	95.6
13-Dinitrobenzene	97.8
Tetryl	113.0
246-Trinitrotoluene	88.3
Nitrobenzene	103.0
34-dinitrotoluene	89.5
26-dinitrotoluene	102.0
24-dinitrotoluene	86.1
4-Amino-26-dinitrotoluene	90.9
2-Amino-46-dinitrotoluene	103.0
2-Nitrotoluene	90.2
4-Nitrotoluene	87.1
3-Nitrotoluene	87.0
PETN	96.3

TOTAL

1822.5

ICV Limits 85-115%

AVERAGE

✓ 95.9

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Jan
3/24/10

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0312076.wiff

Analysis Date: 13-MAR-10 16:59

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
p-Nitrotoluene	40	35.4	89	
1,3,5-Trinitrobenzene	40	47.7	119	
2,4,6-Trinitrotoluene	40	47	118	
2,4-Dinitrotoluene	40	42.2	106	
2,6-Dinitrotoluene	40	29.1	73	
2-Amino-4,6-dinitrotoluene	40	39.9	100	
3,4-Dinitrotoluene	20	20.7	104	
4-Amino-2,6-dinitrotoluene	40	42.6	106	
DNX	40	45.4	114	
HMX	40	44.5	111	
MNX	40	42.3	106	
Nitrobenzene	40	40	100	
PETN	40	45.1	113	
RDX	40	39.9	100	
TNX	40	45.2	113	
Tetryl	40	51.5	129	
m-Dinitrobenzene	40	42.9	107	
m-Nitrotoluene	40	40.4	101	
o-Nitrotoluene	40	36.9	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%

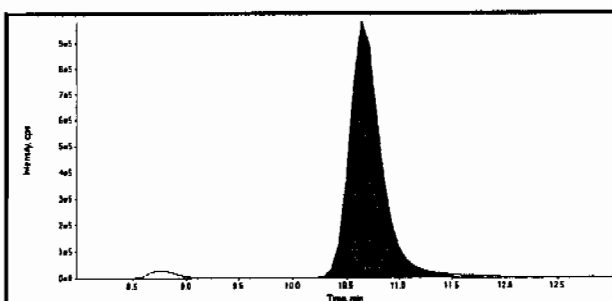
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

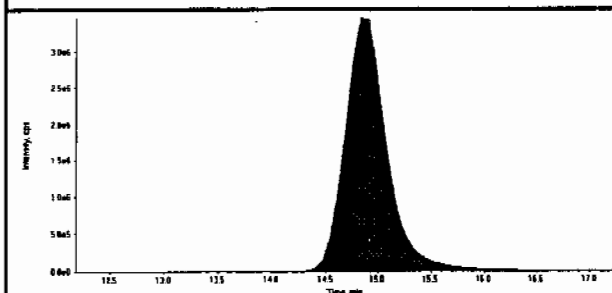
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312076.wiff	Acquisition Date	3/13/2010 4:59:11 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



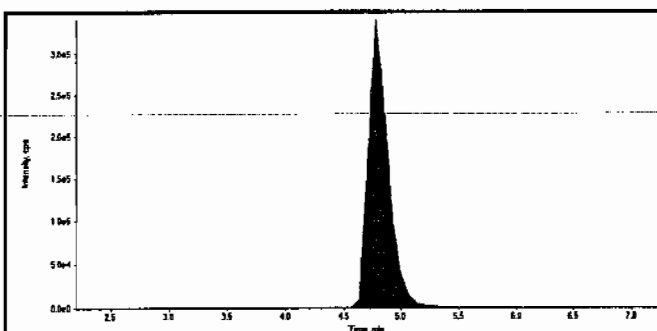
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	20400000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

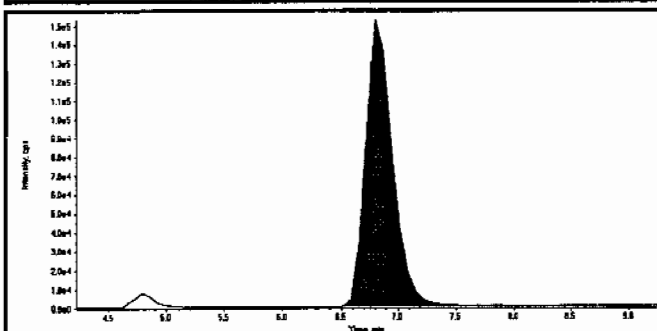


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	95800000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.15e+006
Manual Modification	No
Amount:	44.5 (ng/mL)
% Accuracy:	111.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	2.56e+006
Manual Modification	No
Amount:	39.9 (ng/mL)
% Accuracy:	99.70

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GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312076.wiff	Acquisition Date	3/13/2010 4:59:11 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.14
	Area Counts:	2.97e+006
	Manual Modification	No
	Amount:	45.2 (ng/mL)
	% Accuracy:	113.00

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	2.66e+006
	Manual Modification	No
	Amount:	45.4 (ng/mL)
	% Accuracy:	114.00

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.15
	Area Counts:	1.37e+006
	Manual Modification	No
	Amount:	42.3 (ng/mL)
	% Accuracy:	106.00

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.12
	Area Counts:	1.19e+007
	Manual Modification	No
	Amount:	47.7 (ng/mL)
	% Accuracy:	119.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

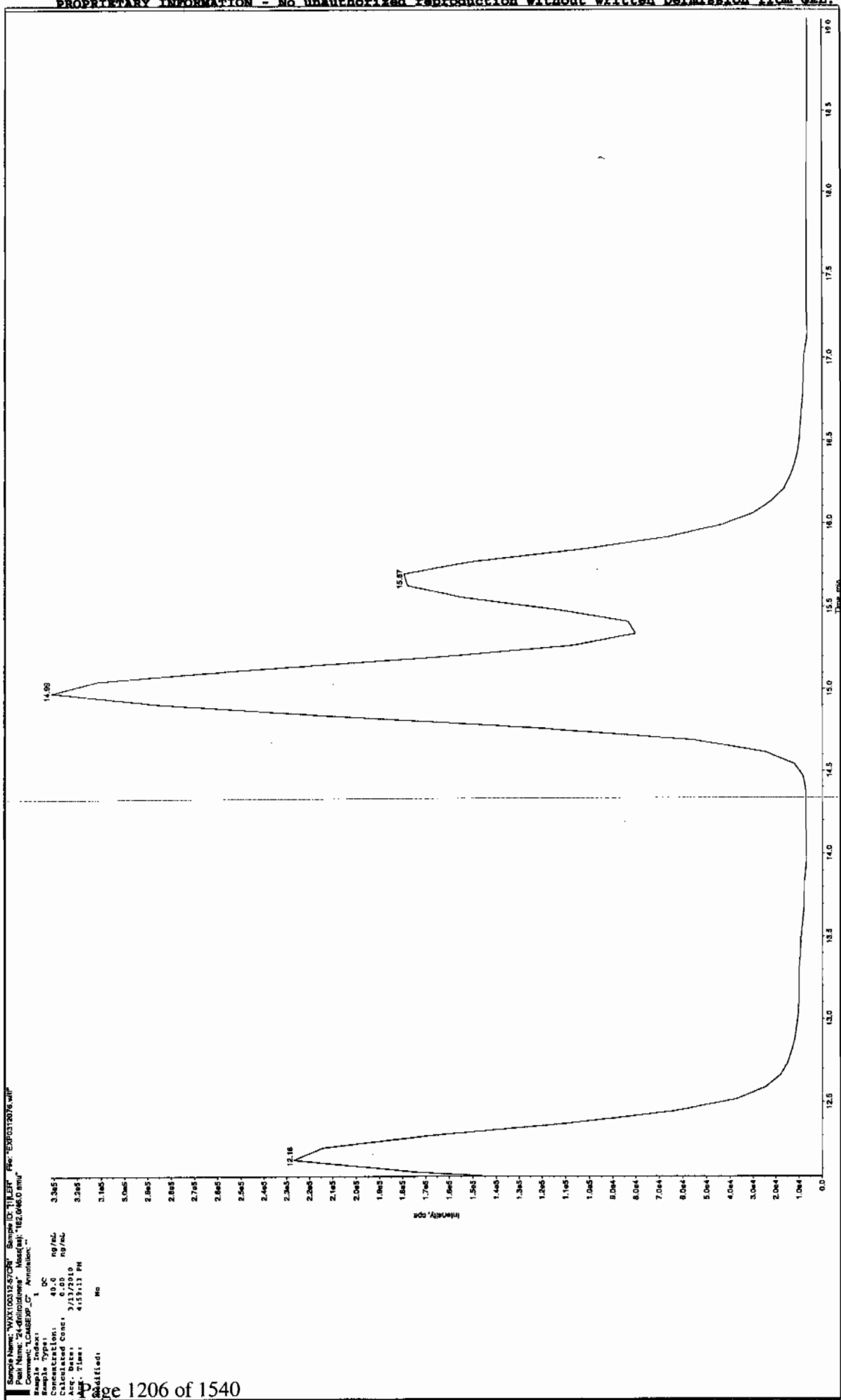
Data File	EXP0312076.wiff	Acquisition Date	3/13/2010 4:59:11 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.8
	Area Counts:	4.69e+006
	Manual Modification	No
	Amount:	42.9 (ng/mL)
	% Accuracy:	107.00

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.9
	Area Counts:	7.28e+006
	Manual Modification	No
	Amount:	51.5 (ng/mL)
	% Accuracy:	129.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.3
	Area Counts:	2.11e+007
	Manual Modification	No
	Amount:	47.0 (ng/mL)
	% Accuracy:	118.00

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	2.48e+005
	Manual Modification	No
	Amount:	40.0 (ng/mL)
	% Accuracy:	99.90



GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312076.wiff	Acquisition Date	3/13/2010 4:59:11 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	4.90e+006
	Manual Modification	No
	Amount:	20.7 (ng/mL)
	% Accuracy:	104.00

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	15.0
	Area Counts:	8.07e+006
	Manual Modification	No
	Amount:	29.1 (ng/mL)
	% Accuracy:	72.70

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.7
	Area Counts:	4.76e+006
	Manual Modification	Yes
	Amount:	42.2 (ng/mL)
	% Accuracy:	106.00

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	7.60e+006
	Manual Modification	No
	Amount:	42.6 (ng/mL)
	% Accuracy:	106.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312076.wiff	Acquisition Date	3/13/2010 4:59:11 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.3
	Area Counts:	2.31e+005
	Manual Modification	No
	Amount:	39.9 (ng/mL)
	% Accuracy:	99.80

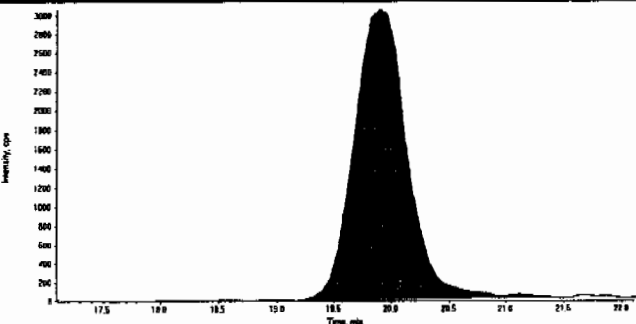
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.8
	Area Counts:	1.20e+005
	Manual Modification	No
	Amount:	36.9 (ng/mL)
	% Accuracy:	92.30

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	19.0
	Area Counts:	6.32e+004
	Manual Modification	No
	Amount:	35.4 (ng/mL)
	% Accuracy:	88.50

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.3
	Area Counts:	8.03e+004
	Manual Modification	No
	Amount:	40.4 (ng/mL)
	% Accuracy:	101.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312076.wiff	Acquisition Date	3/13/2010 4:59:11 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.9
		Area Counts:	9.82e+004
		Manual Modification	No
		Amount:	45.1 (ng/mL)
		% Accuracy:	113.00

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/13/10
 Time of Injection 1659
 Standard Number WXX100312-57CRI
 Data File EXP0312076a

HMX	111.0
RDX	99.7
TNX	113.0
DNX	114.0
MX	106.0
135-Trinitrobenzene	119.0
13-Dinitrobenzene	107.0
Tetryl	129.0
246-Trinitrotoluene	118.0
Nitrobenzene	99.9
34-dinitrotoluene	104.0
26-dinitrotoluene	72.7
24-dinitrotoluene	106.0
4-Amino-26-dinitrotoluene	106.0
2-Amino-46-dinitrotoluene	99.8
2-Nitrotoluene	92.3
4-Nitrotoluene	88.5
3-Nitrotoluene	101.0
PETN	113.0

TOTAL

1999.9

Handwritten: 03/24/10

AVERAGE

✓ 105.3

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Handwritten: Jan 3/24/10

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0312087.wiff

Analysis Date: 13-MAR-10 21:50

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
TNX	600	619	103	
Tetryl	600	730	122	
m-Dinitrobenzene	600	580	97	
m-Nitrotoluene	600	562	94	
o-Nitrotoluene	600	560	93	
p-Nitrotoluene	600	544	91	
RDX	600	626	104	
1,3,5-Trinitrobenzene	600	595	99	
2,4,6-Trinitrotoluene	600	606	101	
2,4-Dinitrotoluene	600	557	93	
2,6-Dinitrotoluene	600	653	109	
2-Amino-4,6-dinitrotoluene	600	602	100	
3,4-Dinitrotoluene	300	280	93	
4-Amino-2,6-dinitrotoluene	600	619	103	
DNX	600	634	106	
HMX	600	576	96	
MNX	600	684	114	
Nitrobenzene	600	582	97	
PETN	600	676	113	

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%

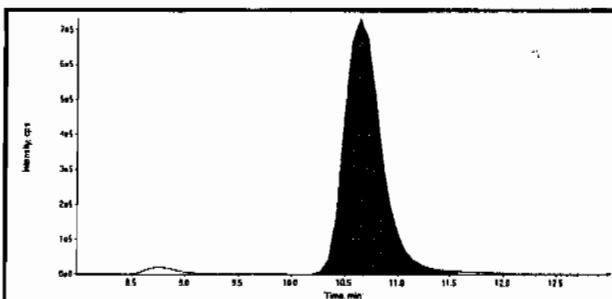
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

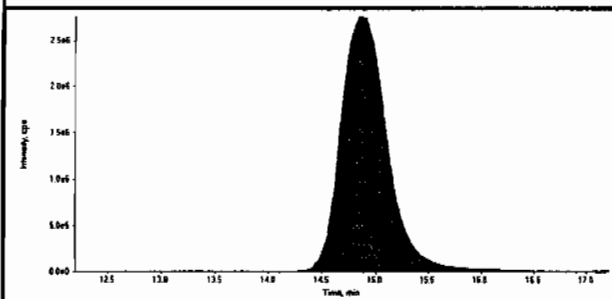
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

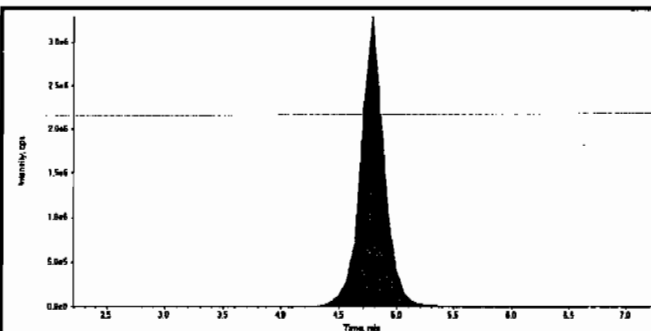
Data File	EXP0312087.wiff	Acquisition Date	3/13/2010 9:50:18 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



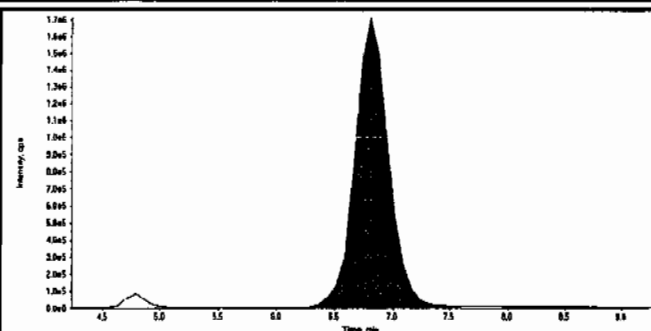
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	17800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	84500000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.67e+007
Manual Modification	No
Amount:	576. (ng/mL)
% Accuracy:	96.10



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	3.50e+007
Manual Modification	No
Amount:	626. (ng/mL)
% Accuracy:	104.00

*San
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03/24/10*

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312087.wiff	Acquisition Date	3/13/2010 9:50:18 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	3.54e+007
	Manual Modification	No
	Amount:	619. (ng/mL)
	% Accuracy:	103.00

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	3.23e+007
	Manual Modification	No
	Amount:	634. (ng/mL)
	% Accuracy:	106.00

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.15
	Area Counts:	1.92e+007
	Manual Modification	No
	Amount:	684. (ng/mL)
	% Accuracy:	114.00

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	1.29e+008
	Manual Modification	No
	Amount:	595. (ng/mL)
	% Accuracy:	99.20

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312087.wiff	Acquisition Date	3/13/2010 9:50:18 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.8
	Area Counts:	5.51e+007
	Manual Modification	No
	Amount:	580. (ng/mL)
	% Accuracy:	96.70

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.9
	Area Counts:	8.96e+007
	Manual Modification	No
	Amount:	730. (ng/mL)
	% Accuracy:	122.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.3
	Area Counts:	2.40e+008
	Manual Modification	No
	Amount:	606. (ng/mL)
	% Accuracy:	101.00

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	3.14e+006
	Manual Modification	No
	Amount:	582. (ng/mL)
	% Accuracy:	97.00

Before Run 3/24/10

Sample Name: "WXX100312-55C0" Sample ID: "1111" File: "E00312087.vit"

Peak Name: "25-dichlorobenzene" Mass(es): "182.046.0 amu"

Comment: "COMBUSTION" Annotation:

Sample Type: 1 GC

Concentration: 400. ng/mL

Calculated Conc: 437.0 ng/mL

Peak Width: 0.80 sec

Peak Width: 0.80 sec

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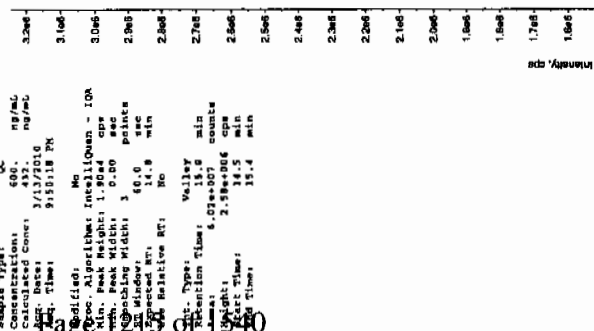
Peak Width: 0.80 sec

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Peak Width: 0.80 sec



Before day 3/24/10

Sample Name: W001001856007 Sample ID: 111111 File: E01017007.vip

Lab Name: 21-0101001856007 Retention: 102.048 D unit

Concentration: 1

Sample Index: 1

Sample Type: QC

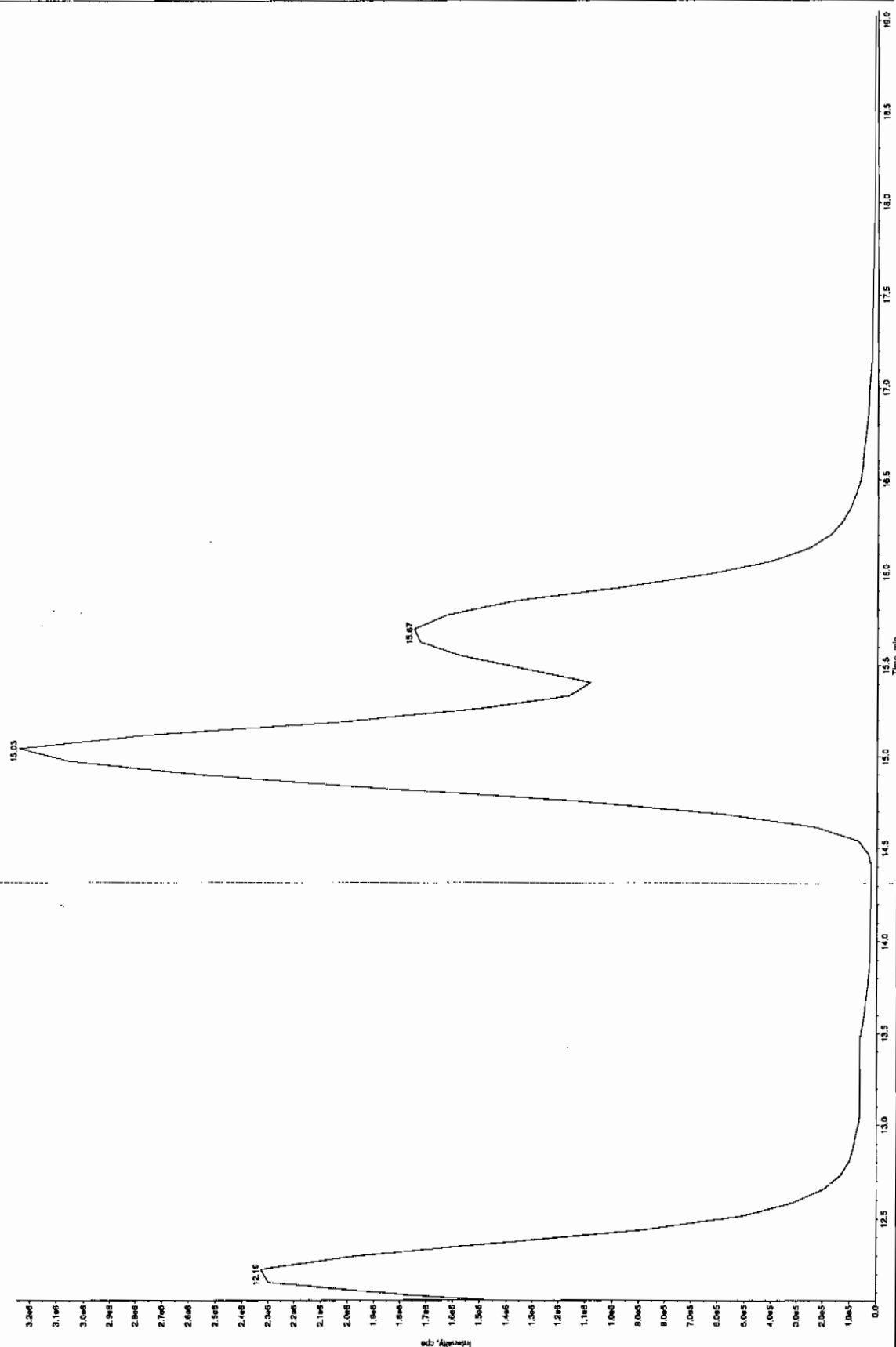
Concentration: 600 ng/mL

Concentration: 600 ng/mL

Acq. Date: 3/13/2010

Acq. Time: 9:10:18 PM

Modified: No



GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312087.wiff	Acquisition Date	3/13/2010 9:50:18 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

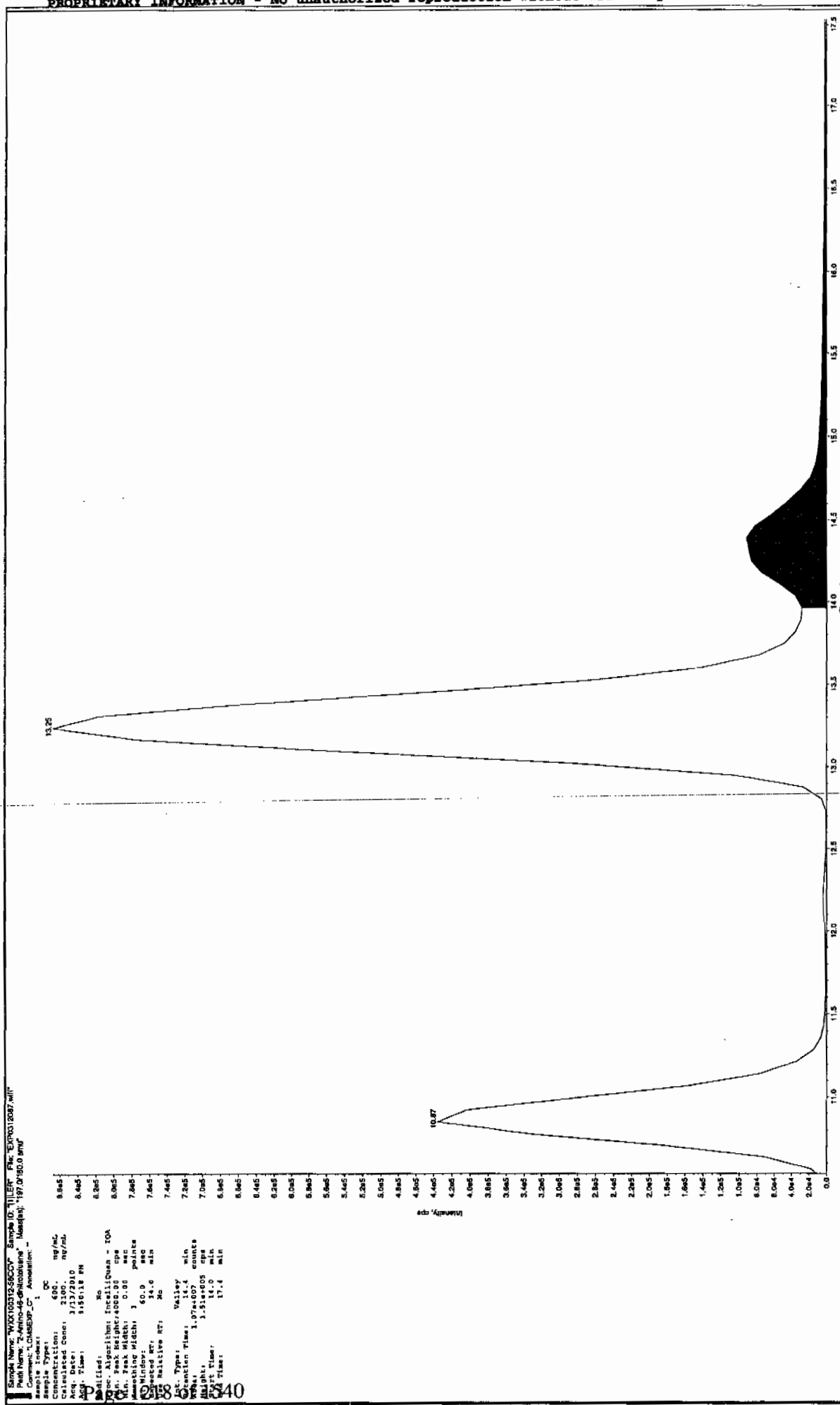
	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	5.84e+007
	Manual Modification	No
	Amount:	280. (ng/mL)
	% Accuracy:	93.40

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	15.0
	Area Counts:	8.92e+007
	Manual Modification	Yes
	Amount:	653. (ng/mL)
	% Accuracy:	109.00

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.7
	Area Counts:	5.54e+007
	Manual Modification	Yes
	Amount:	557. (ng/mL)
	% Accuracy:	92.90

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	9.75e+007
	Manual Modification	No
	Amount:	619. (ng/mL)
	% Accuracy:	103.00

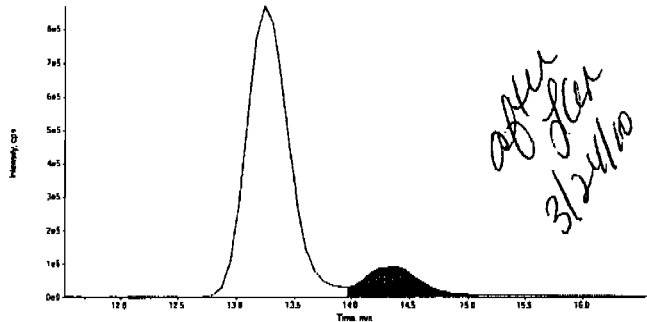
Before Dec 3/24/10

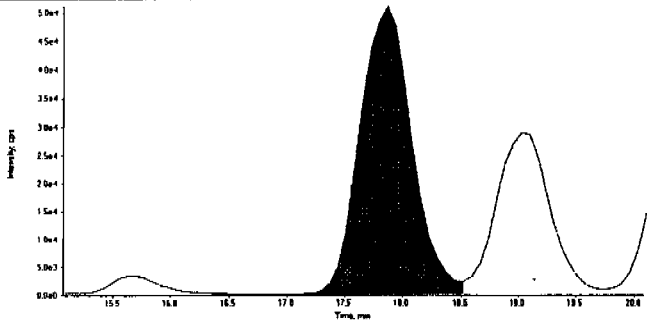


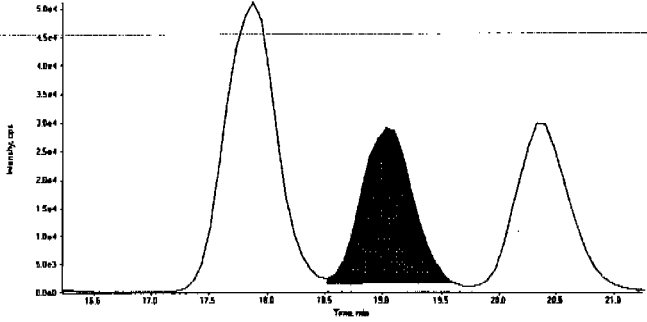
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

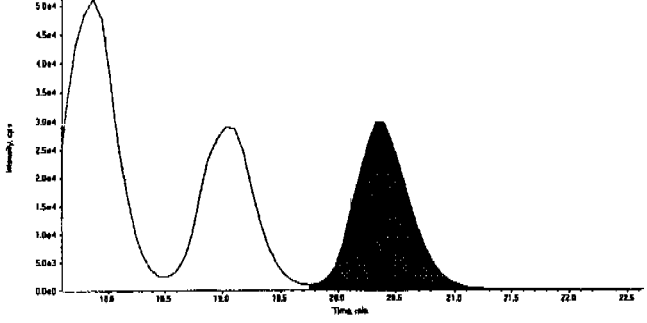
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312087.wiff	Acquisition Date	3/13/2010 9:50:18 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.4
	Area Counts:	3.08e+006
	Manual Modification	Yes
	Amount:	602. (ng/mL)
	% Accuracy:	100.00

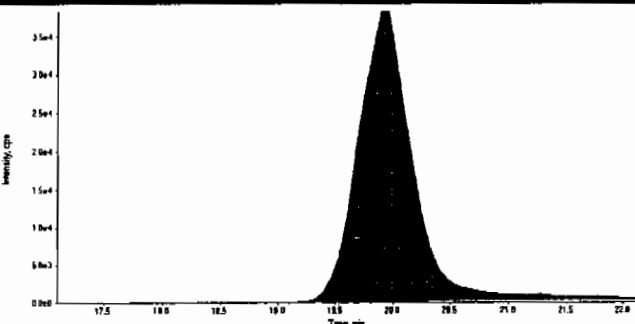
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.9
	Area Counts:	1.61e+006
	Manual Modification	No
	Amount:	560. (ng/mL)
	% Accuracy:	93.40

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	19.0
	Area Counts:	8.57e+005
	Manual Modification	No
	Amount:	544. (ng/mL)
	% Accuracy:	90.60

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.3
	Area Counts:	9.85e+005
	Manual Modification	No
	Amount:	562. (ng/mL)
	% Accuracy:	93.60

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312087.wiff	Acquisition Date	3/13/2010 9:50:18 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	20.0
		Area Counts:	1.30e+006
		Manual Modification	No
		Amount:	676. (ng/mL)
		% Accuracy:	113.00

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/13/10
 Time of Injection 2150
 Standard Number WXX100312-56CCV
 Data File EXP0312087a

HMX	96.1
RDX	104.0
TNX	103.0
DNX	106.0
MNX	114.0
135-Trinitrobenzene	99.2
13-Dinitrobenzene	96.7
Tetryl	122.0
246-Trinitrotoluene	101.0
Nitrobenzene	97.0
34-dinitrotoluene	93.4
26-dinitrotoluene	109.0
24-dinitrotoluene	92.9
4-Amino-26-dinitrotoluene	103.0
2-Amino-46-dinitrotoluene	100.0
2-Nitrotoluene	93.4
4-Nitrotoluene	90.6
3-Nitrotoluene	93.6
PETN	113.0

TOTAL

1927.9

sum 03/24/10

AVERAGE

✓ 101.5

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

*sum
3/24/10*

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEI

GEL Sample ID: WXXCRI

GEL Data File EXP0312089.wiff

Analysis Date: 13-MAR-10 22:43

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	52.9	132	
2,4,6-Trinitrotoluene	40	47.1	118	
2,4-Dinitrotoluene	40	41.5	104	
2,6-Dinitrotoluene	40	29.9	75	
2-Amino-4,6-dinitrotoluene	40	38.4	96	
3,4-Dinitrotoluene	20	21.8	109	
4-Amino-2,6-dinitrotoluene	40	44.5	111	
DNX	40	47	117	
HMX	40	51.2	128	
MNX	40	46.6	117	
Nitrobenzene	40	38.9	97	
PETN	40	43.4	108	
RDX	40	44.2	111	
TNX	40	46.9	117	
Tetryl	40	52.3	131	
m-Dinitrobenzene	40	44.3	111	
m-Nitrotoluene	40	40.4	101	
o-Nitrotoluene	40	36.7	92	
p-Nitrotoluene	40	35.4	89	

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%

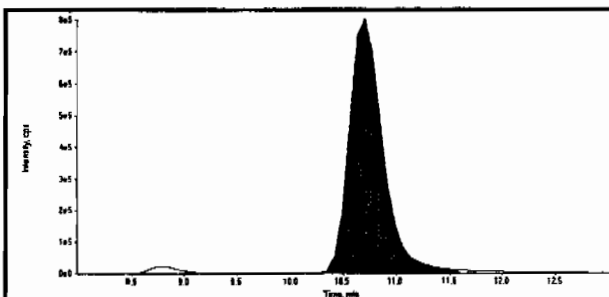
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

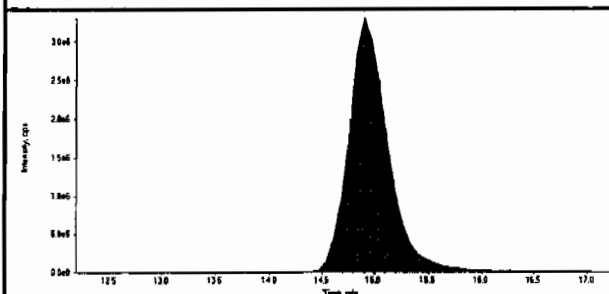
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312089.wiff	Acquisition Date	3/13/2010 10:43:08 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



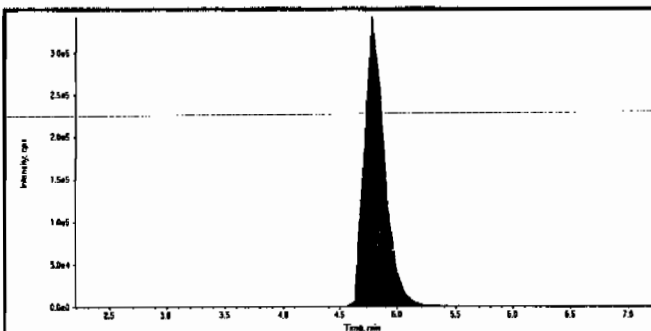
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.70
Area Counts:	18000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

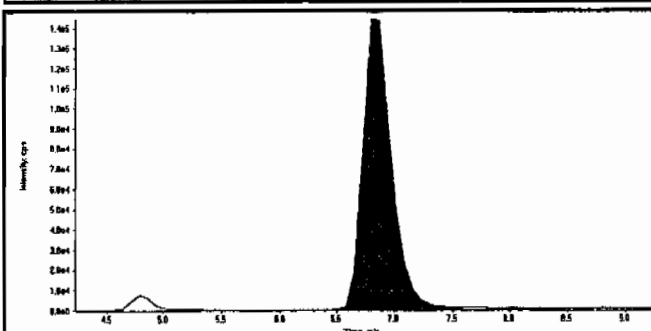


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	86100000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.20e+006
Manual Modification	No
Amount:	51.2 (ng/mL)
% Accuracy:	128.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	2.50e+006
Manual Modification	No
Amount:	44.2 (ng/mL)
% Accuracy:	111.00

Handwritten: 03/24/10
Jax
3/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312089.wiff	Acquisition Date	3/13/2010 10:43:08 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.14
	Area Counts:	2.71e+006
	Manual Modification	No
	Amount:	46.9 (ng/mL)
	% Accuracy:	117.00

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	2.42e+006
	Manual Modification	No
	Amount:	47.0 (ng/mL)
	% Accuracy:	117.00

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.15
	Area Counts:	1.32e+006
	Manual Modification	No
	Amount:	46.6 (ng/mL)
	% Accuracy:	117.00

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.12
	Area Counts:	1.16e+007
	Manual Modification	No
	Amount:	52.9 (ng/mL)
	% Accuracy:	132.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312089.wiff	Acquisition Date	3/13/2010 10:43:08 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

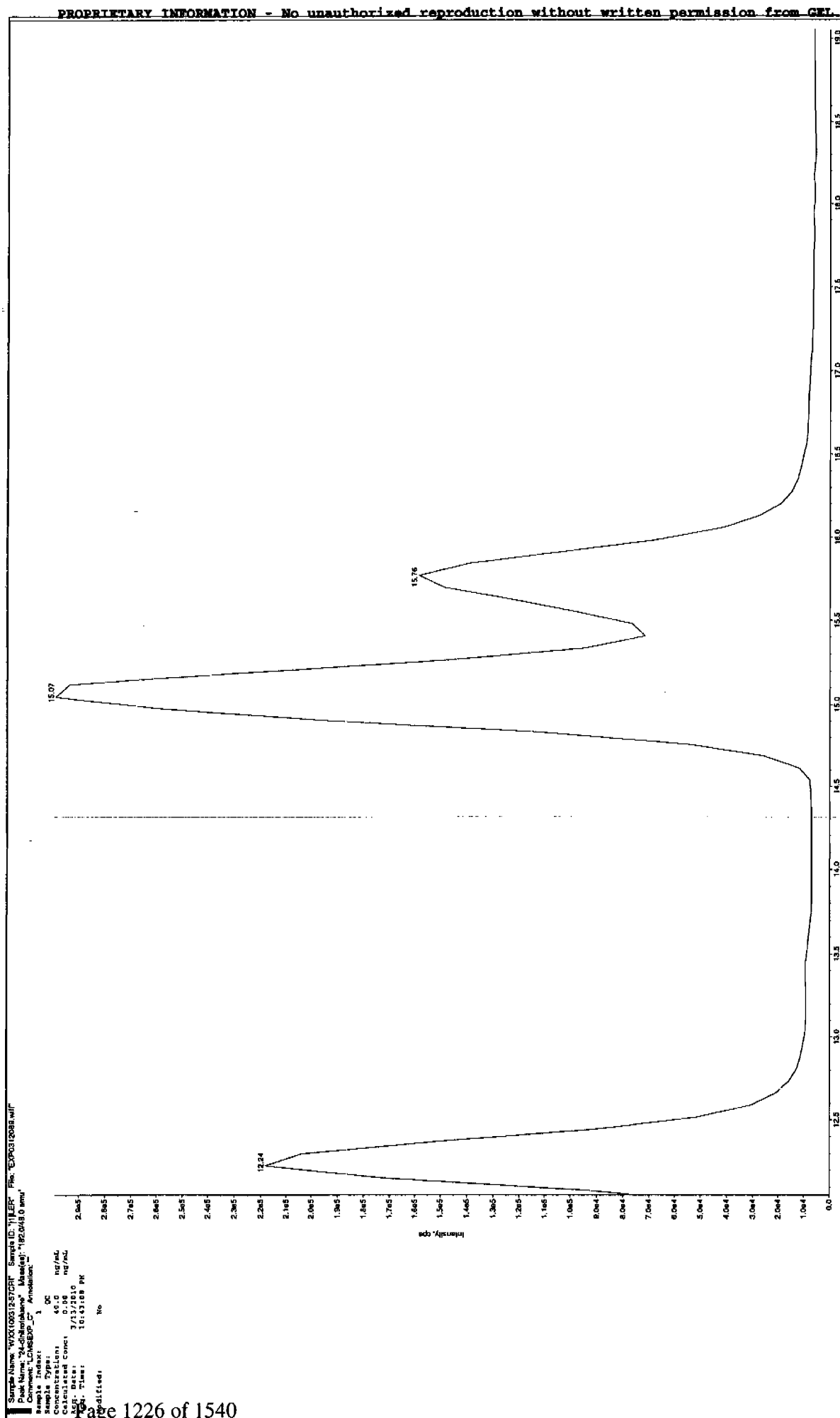
	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.9
	Area Counts:	4.25e+006
	Manual Modification	No
	Amount:	44.3 (ng/mL)
	% Accuracy:	111.00

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.9
	Area Counts:	6.50e+006
	Manual Modification	No
	Amount:	52.3 (ng/mL)
	% Accuracy:	131.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.3
	Area Counts:	1.90e+007
	Manual Modification	No
	Amount:	47.1 (ng/mL)
	% Accuracy:	118.00

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	12.0
	Area Counts:	2.12e+005
	Manual Modification	No
	Amount:	38.9 (ng/mL)
	% Accuracy:	97.10

Before Day 3/24/10



GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312089.wiff	Acquisition Date	3/13/2010 10:43:08 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	4.64e+006
	Manual Modification	No
	Amount:	21.8 (ng/mL)
	% Accuracy:	109.00

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	15.0
	Area Counts:	7.37e+006
	Manual Modification	No
	Amount:	29.9 (ng/mL)
	% Accuracy:	74.70

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.8
	Area Counts:	4.21e+006
	Manual Modification	Yes
	Amount:	41.5 (ng/mL)
	% Accuracy:	104.00

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.3
	Area Counts:	7.14e+006
	Manual Modification	No
	Amount:	44.5 (ng/mL)
	% Accuracy:	111.00

Before Jan 31/10

Sample Name: "WVX10019.5729" Sample ID: "118.57" Run: "EXP012008.sir"
 Part Name: "2-Amino-46-666bromine" Mass(es): "117.0/150.0 amu"

Comment: "LCMSBSP_C" Annotation: ""

Sample Index: 1

Concentration: 40.0 ng/mL

Calculated Conc: 26.2 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 10:13:08 PM

Peak: 1

Retention Time: 10.91

Peak Width: 0.08

Peak Shape: 3

Peak Window: 60.0 sec

Peak Offset: 14.6 min

Peak Type: Valley

Peak Label: 10.91

Peak Count: 14.4

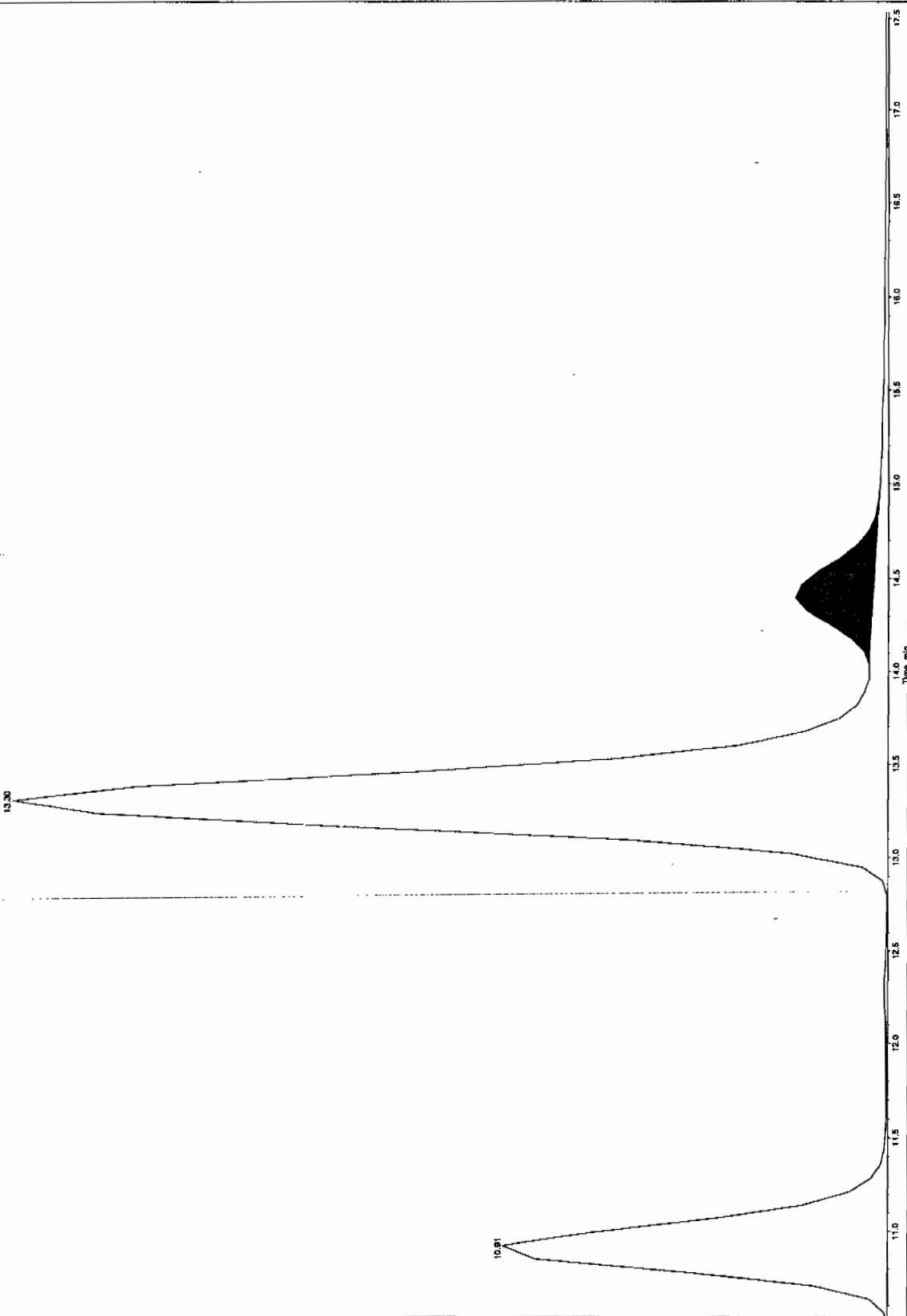
Peak Weight: 1.35e+03

Peak Mass: 6.03e+03

Peak Time: 14.0 min

Peak Time: 15.0 min

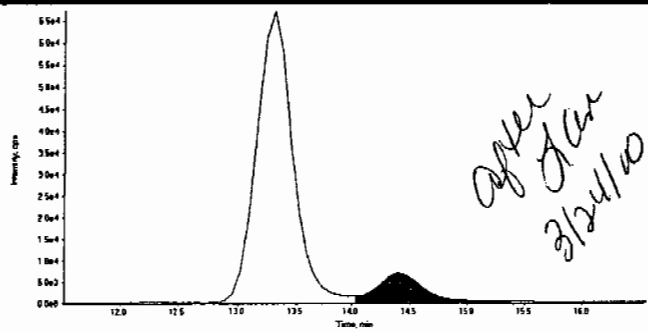
Intensity, cps

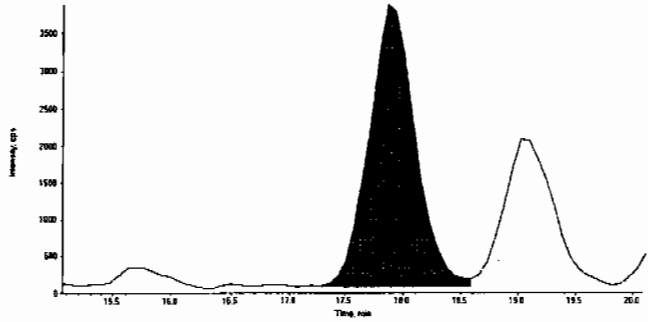


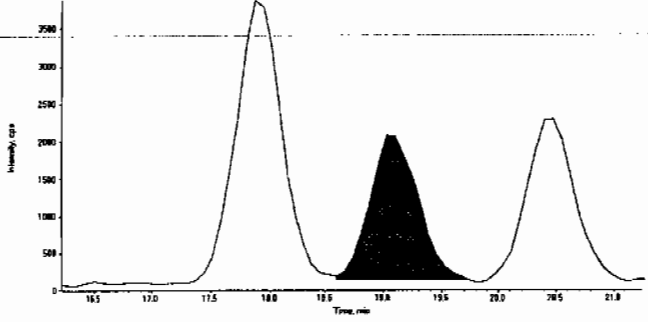
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

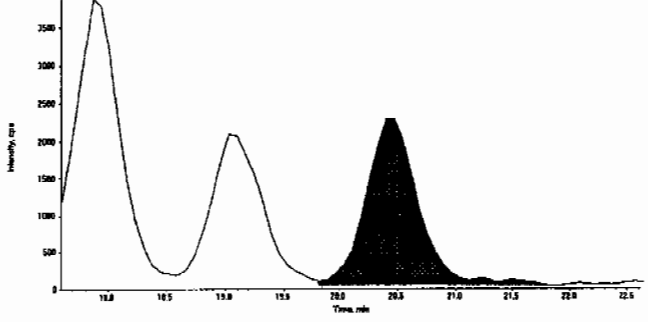
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312089.wiff	Acquisition Date	3/13/2010 10:43:08 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.4
	Area Counts:	2.00e+005
	Manual Modification	Yes
	Amount:	38.4 (ng/mL)
	% Accuracy:	96.10

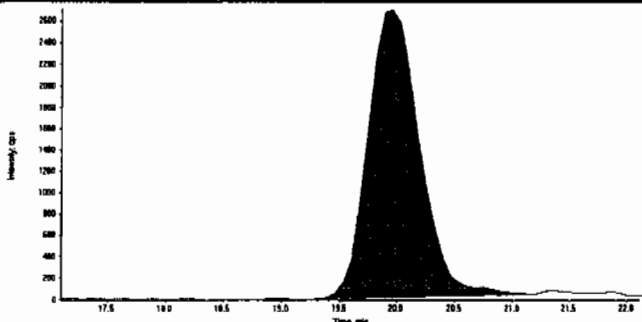
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.9
	Area Counts:	1.07e+005
	Manual Modification	No
	Amount:	36.7 (ng/mL)
	% Accuracy:	91.80

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	19.0
	Area Counts:	5.68e+004
	Manual Modification	No
	Amount:	35.4 (ng/mL)
	% Accuracy:	88.50

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.5
	Area Counts:	7.22e+004
	Manual Modification	No
	Amount:	40.4 (ng/mL)
	% Accuracy:	101.00

GEL Laboratories, LLC
 GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
 LCMSMS#3

Data File	EXP0312089.wiff	Acquisition Date	3/13/2010 10:43:08 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	20.0
		Area Counts:	8.49e+004
		Manual Modification	No
		Amount:	43.4 (ng/mL)
		% Accuracy:	108.00

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/13/10
 Time of Injection 2243
 Standard Number WXX100312-57CRI
 Data File EXP0312089a

HMX	128.0
RDX	111.0
TNX	117.0
DNX	117.0
MNX	117.0
135-Trinitrobenzene	132.0
13-Dinitrobenzene	111.0
Tetryl	131.0
246-Trinitrotoluene	118.0
Nitrobenzene	97.1
34-dinitrotoluene	109.0
26-dinitrotoluene	74.7
24-dinitrotoluene	104.0
4-Amino-26-dinitrotoluene	111.0
2-Amino-46-dinitrotoluene	96.1
2-Nitrotoluene	91.8
4-Nitrotoluene	88.5
3-Nitrotoluene	101.0
PETN	108.0

TOTAL

2063.2

ICV Limits 85-115%

AVERAGE

✓ 108.6

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Jan
3/24/10

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0312099.wiff

Analysis Date: 14-MAR-10 04:07

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	611	102	
2,4,6-Trinitrotoluene	600	594	99	
2,4-Dinitrotoluene	600	575	96	
2,6-Dinitrotoluene	600	654	109	
2-Amino-4,6-dinitrotoluene	600	661	110	
3,4-Dinitrotoluene	300	291	97	
4-Amino-2,6-dinitrotoluene	600	604	101	
DNX	600	599	100	
HMX	600	568	95	
MXN	600	639	106	
Nitrobenzene	600	598	100	
PETN	600	665	111	
RDX	600	577	96	
TNX	600	624	104	
Tetryl	600	711	118	
m-Dinitrobenzene	600	579	97	
m-Nitrotoluene	600	569	95	
o-Nitrotoluene	600	546	91	
p-Nitrotoluene	600	506	84	

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%

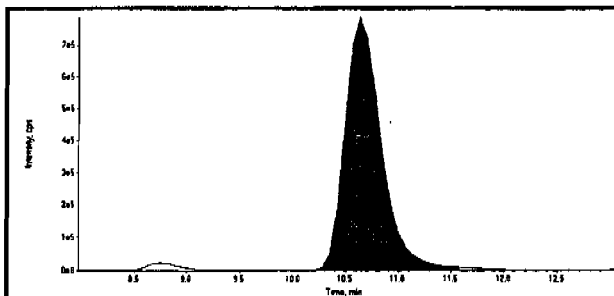
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

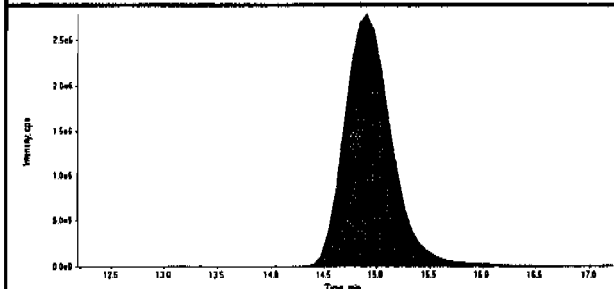
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

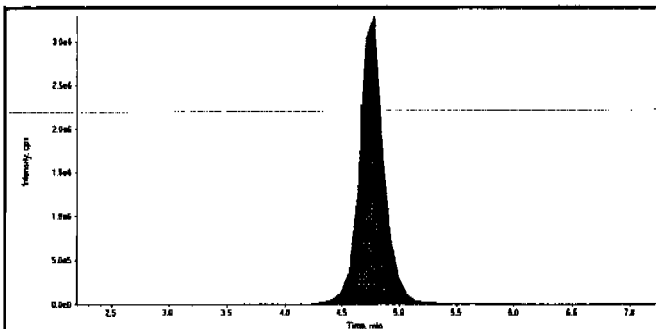
Data File	EXP0312099.wiff	Acquisition Date	3/14/2010 4:07:36 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



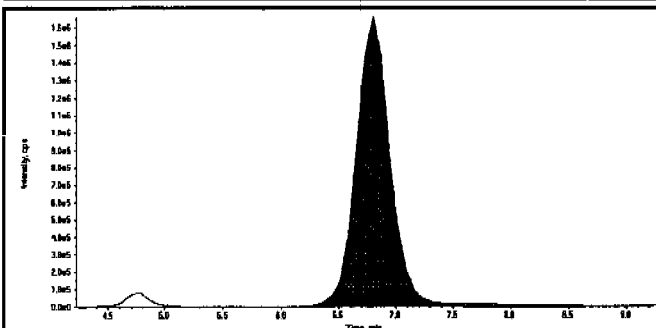
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	19000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	87500000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.91e+007
Manual Modification	No
Amount:	568. (ng/mL)
% Accuracy:	94.70



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	3.44e+007
Manual Modification	No
Amount:	577. (ng/mL)
% Accuracy:	96.10

Handwritten:
03/24/10
OK
3/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312099.wiff	Acquisition Date	3/14/2010 4:07:36 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	3.81e+007
	Manual Modification	No
	Amount:	624. (ng/mL)
	% Accuracy:	104.00

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	3.25e+007
	Manual Modification	No
	Amount:	599. (ng/mL)
	% Accuracy:	99.80

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	1.91e+007
	Manual Modification	No
	Amount:	639. (ng/mL)
	% Accuracy:	106.00

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	1.41e+008
	Manual Modification	No
	Amount:	611. (ng/mL)
	% Accuracy:	102.00

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GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

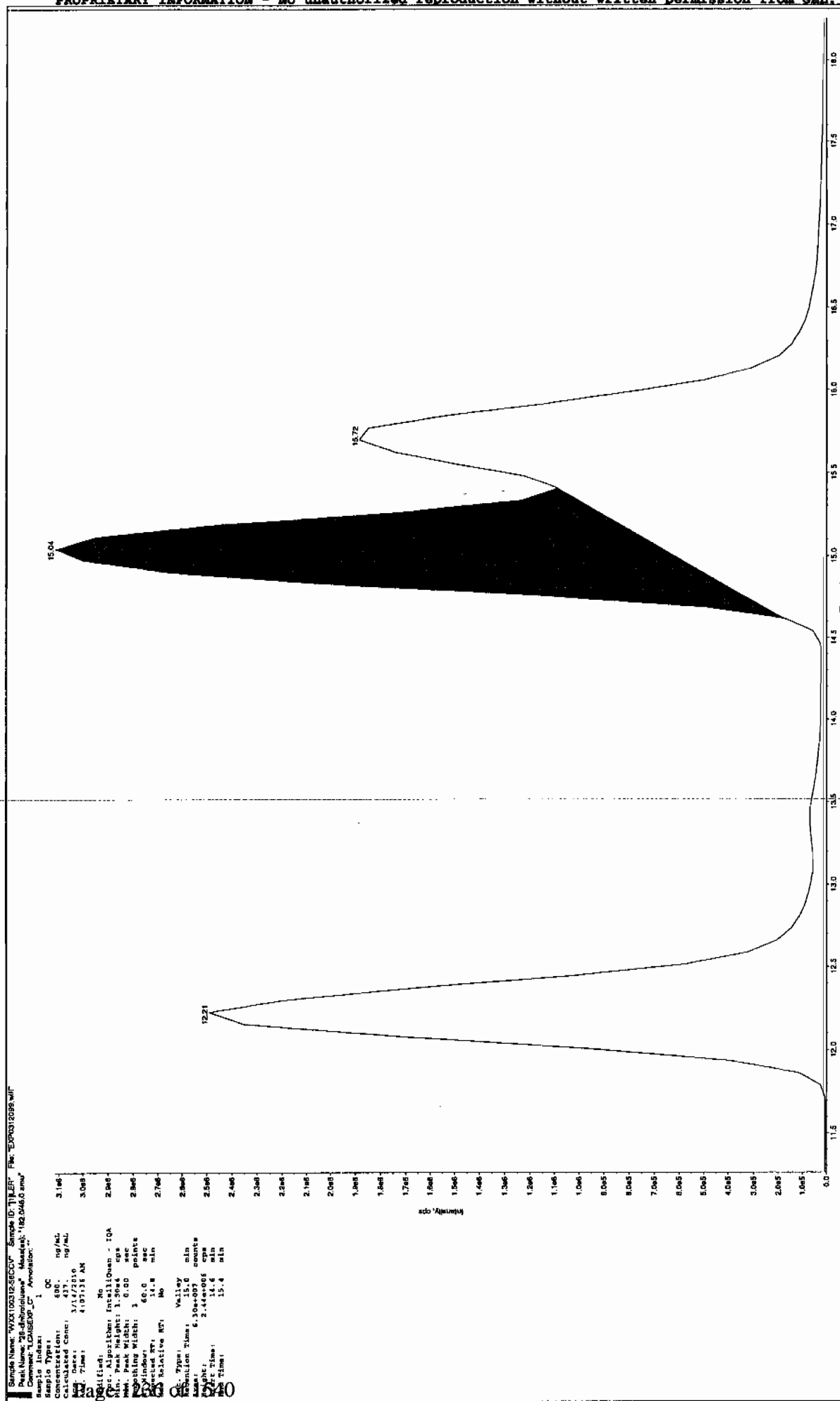
Data File	EXP0312099.wiff	Acquisition Date	3/14/2010 4:07:36 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.8
	Area Counts:	5.87e+007
	Manual Modification	No
	Amount:	579. (ng/mL)
	% Accuracy:	96.60

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.9
	Area Counts:	9.31e+007
	Manual Modification	No
	Amount:	711. (ng/mL)
	% Accuracy:	118.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.3
	Area Counts:	2.44e+008
	Manual Modification	No
	Amount:	594. (ng/mL)
	% Accuracy:	99.10

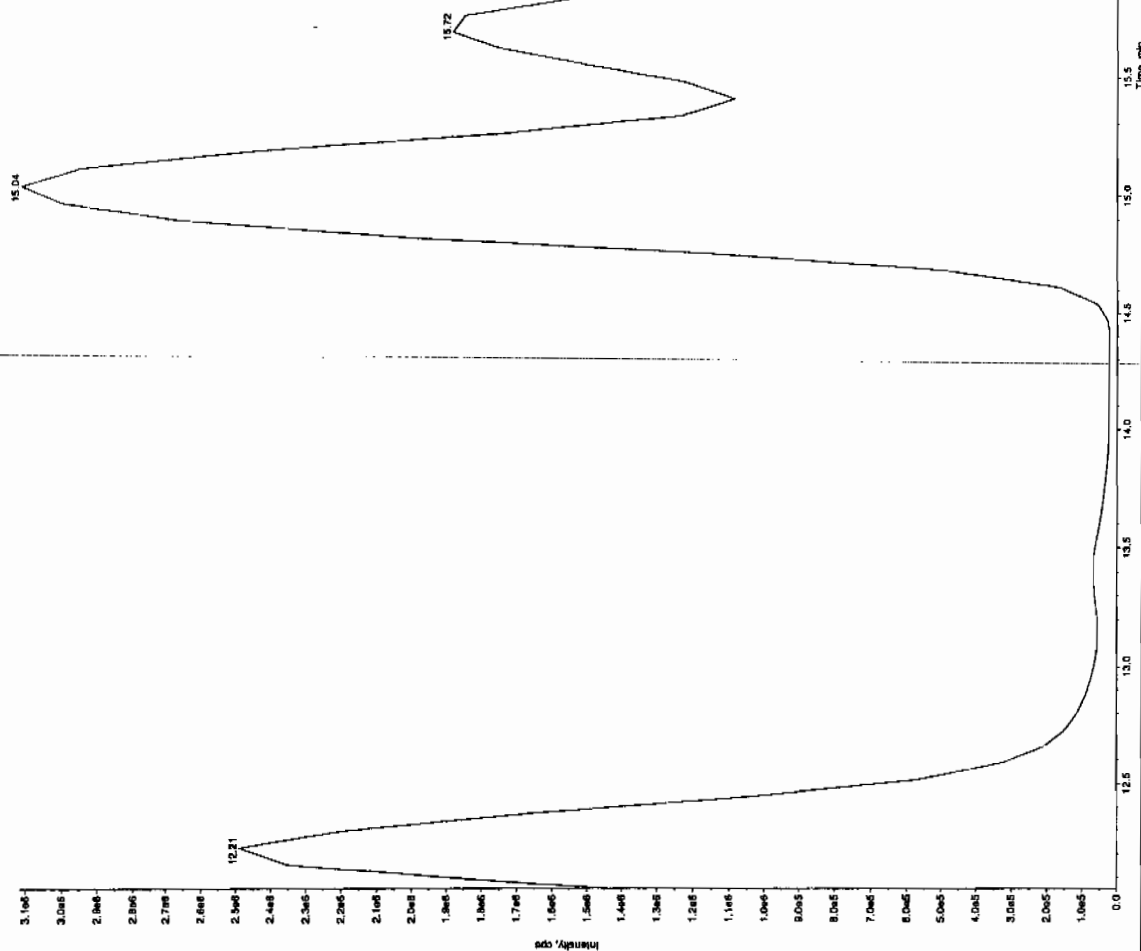
	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	3.44e+006
	Manual Modification	No
	Amount:	598. (ng/mL)
	% Accuracy:	99.60



Before Jan 31/2010

Sample Name: WXX100310-540CV Sample ID: T11297 File: EXP0312098.wif
 Peak Name: 24-dichlorobenzene* Mass(es): 182.046 (0 amu)
 Comment: LONEXP_C* Annotation: =

Sample Index: 1
 Acquisition: 600 Hz
 Concentration: 0.00 mg/mL
 Date: 3/16/2010
 Time: 4:07:38 AM
 Diluted: No



GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312099.wiff	Acquisition Date	3/14/2010 4:07:36 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	6.27e+007
	Manual Modification	No
	Amount:	291. (ng/mL)
	% Accuracy:	96.90

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	15.0
	Area Counts:	9.25e+007
	Manual Modification	Yes
	Amount:	654. (ng/mL)
	% Accuracy:	109.00

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.7
	Area Counts:	5.92e+007
	Manual Modification	Yes
	Amount:	575. (ng/mL)
	% Accuracy:	95.80

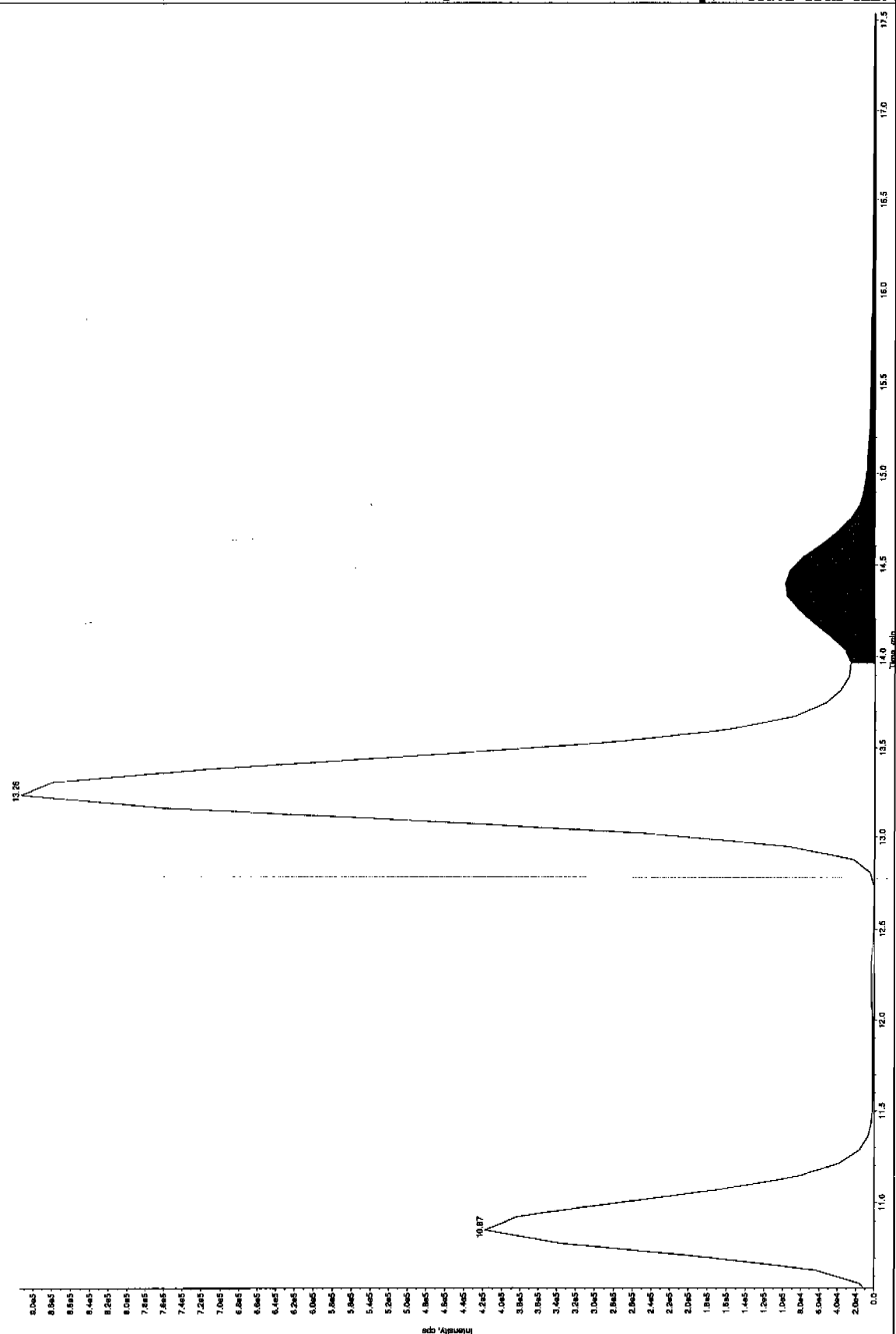
	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	9.84e+007
	Manual Modification	No
	Amount:	604. (ng/mL)
	% Accuracy:	101.00

Before Run 8/24/10

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Sample Name: "VXX100312-5620" Sample ID: "111111" File: "E000312099.wif"
 Peak Name: "VXX100312-5620" Mass(es): "197.01800 amu"
 Concentration: "1.000000" g/mL
 Sample Index: "1" Acquisition: "1"

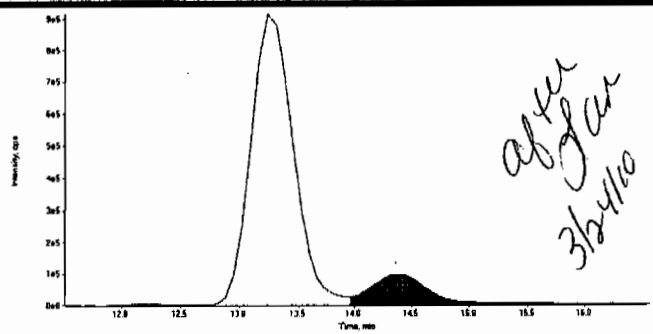
Sample Type: "QC"
 Concentration: "600.00" ng/mL
 Acquisition Date: "3/15/2010"
 Acquisition Time: "4:07:16 AM"
 Peak Name: "VXX100312-5620"
 Peak Height: "400.00" cps
 Peak Width: "0.06" sec
 Peak Area: "16.0" points
 Peak Area: "16.0" sec
 Peak Area: "16.0" min
 Relative RT: "No"
 Type: "Valley"
 Minimum Time: "1.14e+007" counts
 Maximum Time: "1.14e+007" counts
 Offset: "1.58e+005" cps
 Offset Time: "14.0" min
 Offset Time: "17.6" min

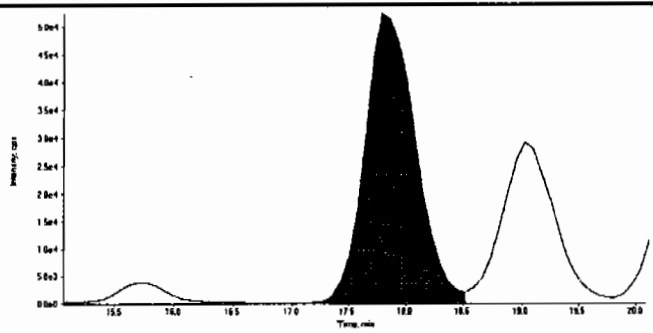


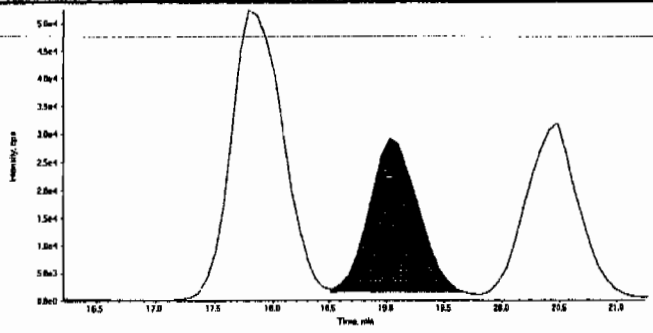
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

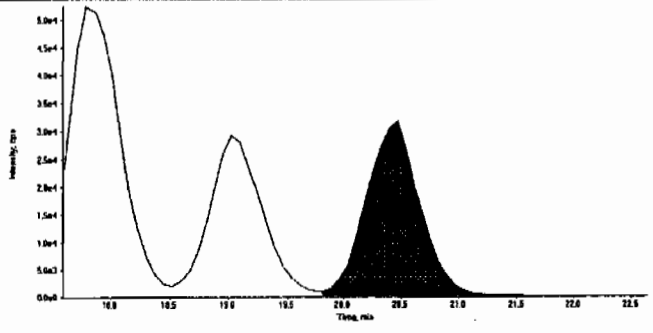
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312099.wiff	Acquisition Date	3/14/2010 4:07:36 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.4
	Area Counts:	3.50e+006
	Manual Modification	Yes
	Amount:	661. (ng/mL)
	% Accuracy:	110.00

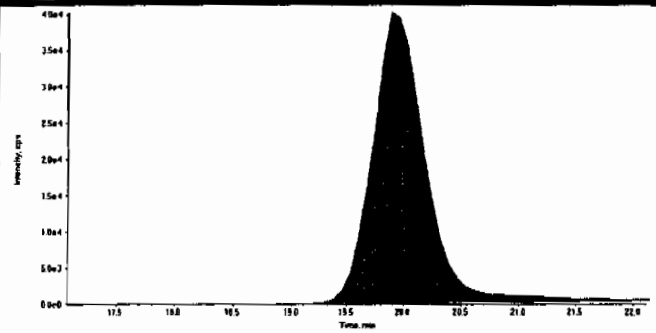
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.8
	Area Counts:	1.62e+006
	Manual Modification	No
	Amount:	546. (ng/mL)
	% Accuracy:	91.00

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	19.0
	Area Counts:	8.25e+005
	Manual Modification	No
	Amount:	506. (ng/mL)
	% Accuracy:	84.30

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.5
	Area Counts:	1.03e+006
	Manual Modification	No
	Amount:	569. (ng/mL)
	% Accuracy:	94.90

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312099.wiff	Acquisition Date	3/14/2010 4:07:36 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.9
		Area Counts:	1.32e+006
		Manual Modification	No
		Amount:	665. (ng/mL)
		% Accuracy:	111.00

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/14/10
 Time of Injection 0407
 Standard Number WXX100312-56CCV
 Data File EXP0312099a

HMX	94.7
RDX	96.1
TNX	104.0
DNX	99.8
MNX	106.0
135-Trinitrobenzene	102.0
13-Dinitrobenzene	96.6
Tetryl	118.0
246-Trinitrotoluene	99.1
Nitrobenzene	99.6
34-dinitrotoluene	96.9
26-dinitrotoluene	109.0
24-dinitrotoluene	95.8
4-Amino-26-dinitrotoluene	101.0
2-Amino-46-dinitrotoluene	110.0
2-Nitrotoluene	91.0
4-Nitrotoluene	84.3
3-Nitrotoluene	94.9
PETN	111.0

TOTAL

1909.8

Hmm 03/24/10

AVERAGE

✓ 100.5

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

*Jan
3/24/10*

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0312101.wiff

Analysis Date: 14-MAR-10 05:00

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
TNX	40	40	100	
Tetryl	40	43.2	108	
m-Dinitrobenzene	40	45.5	114	
m-Nitrotoluene	40	31.4	78	
o-Nitrotoluene	40	30	75	
p-Nitrotoluene	40	24.5	61	
1,3,5-Trinitrobenzene	40	48.8	122	
2,4,6-Trinitrotoluene	40	50.2	126	
2,4-Dinitrotoluene	40	38.4	96	
2,6-Dinitrotoluene	40	32.7	82	
2-Amino-4,6-dinitrotoluene	40	35	88	
3,4-Dinitrotoluene	20	22.3	111	
4-Amino-2,6-dinitrotoluene	40	42.2	106	
DNX	40	40.9	102	
HMX	40	39.4	99	
MXN	40	37.1	93	
Nitrobenzene	40	37.1	93	
PETN	40	36.9	92	
RDX	40	36.5	91	

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%

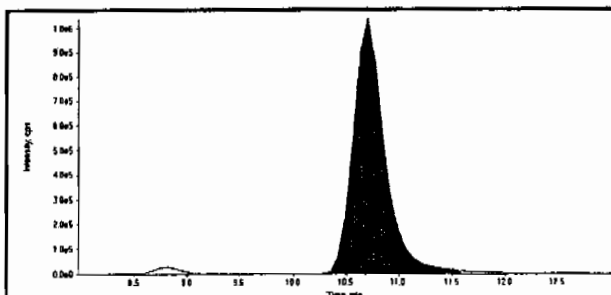
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

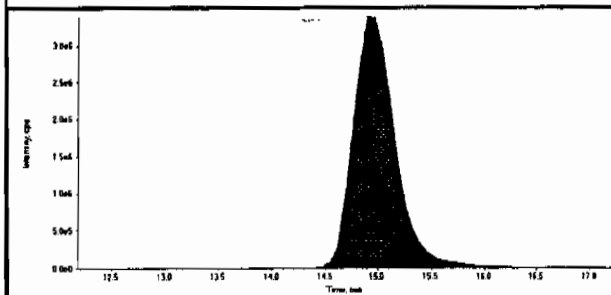
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

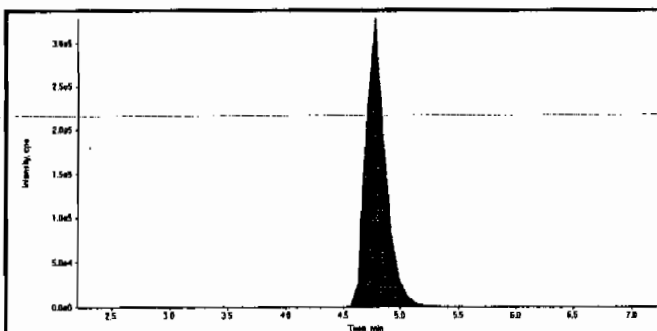
Data File	EXP0312101.wiff	Acquisition Date	3/14/2010 5:00:24 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



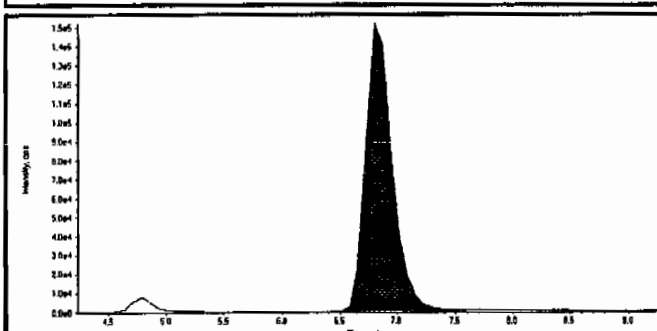
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.70
Area Counts:	21800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	95300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	3.92e+006
Manual Modification	No
Amount:	39.4 (ng/mL)
% Accuracy:	98.60



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	2.50e+006
Manual Modification	No
Amount:	36.5 (ng/mL)
% Accuracy:	91.30

LER
3/24/10
4mm 03/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312101.wiff	Acquisition Date	3/14/2010 5:00:24 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	2.81e+006
	Manual Modification	No
	Amount:	40.0 (ng/mL)
	% Accuracy:	100.00

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	2.55e+006
	Manual Modification	No
	Amount:	40.9 (ng/mL)
	% Accuracy:	102.00

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.15
	Area Counts:	1.28e+006
	Manual Modification	No
	Amount:	37.1 (ng/mL)
	% Accuracy:	92.70

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.12
	Area Counts:	1.30e+007
	Manual Modification	No
	Amount:	48.8 (ng/mL)
	% Accuracy:	122.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312101.wiff	Acquisition Date	3/14/2010 5:00:24 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.9
	Area Counts:	5.31e+006
	Manual Modification	No
	Amount:	45.5 (ng/mL)
	% Accuracy:	114.00

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.9
	Area Counts:	6.51e+006
	Manual Modification	No
	Amount:	43.2 (ng/mL)
	% Accuracy:	108.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.3
	Area Counts:	2.24e+007
	Manual Modification	No
	Amount:	50.2 (ng/mL)
	% Accuracy:	126.00

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	2.45e+005
	Manual Modification	No
	Amount:	37.1 (ng/mL)
	% Accuracy:	92.70

Before Jan 3/24/10

Sample Name: 1001001235007 Sample ID: 1001001235007 File: 1001001235007.wif
 Path: 1001001235007
 Comment: 1001001235007

Sample Index: 1

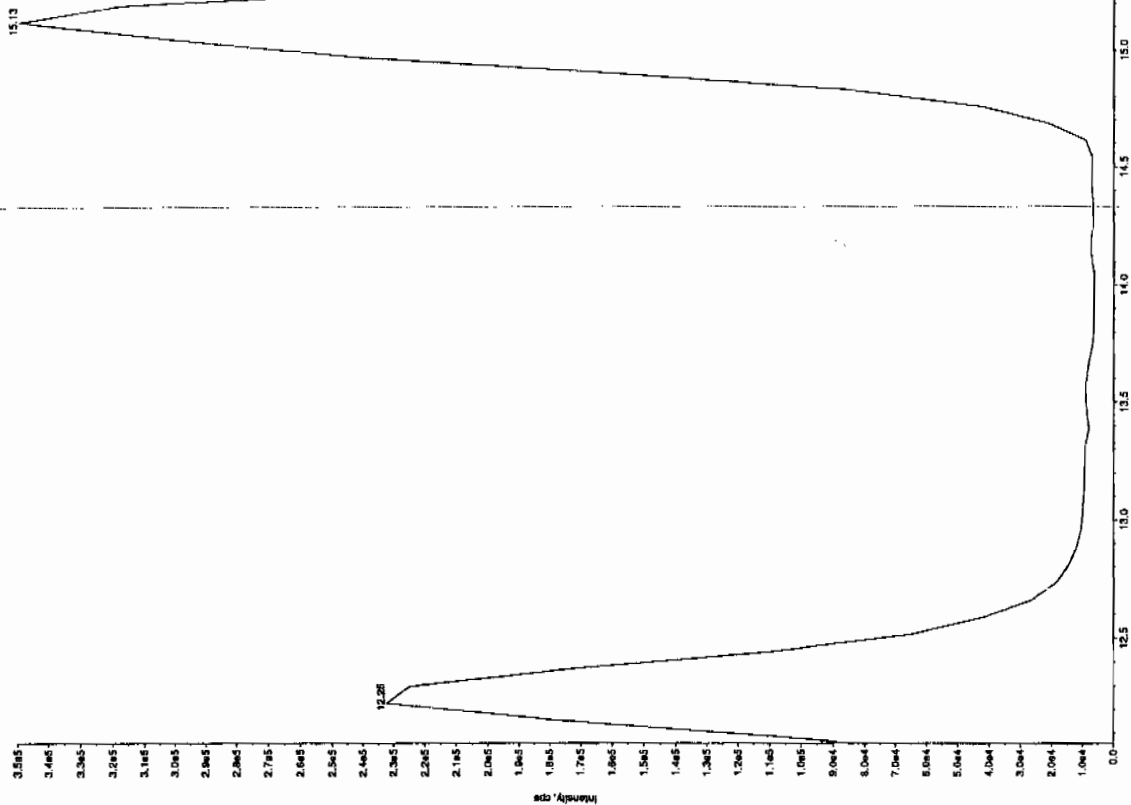
Sample Type: QC

Concentration: 40.0 mg/mL

Acq. Date: 3/14/2010

Acq. Time: 9:00:24 AM

Validated: Yes



GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312101.wiff	Acquisition Date	3/14/2010 5:00:24 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	5.23e+006
	Manual Modification	No
	Amount:	22.3 (ng/mL)
	% Accuracy:	111.00

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	15.1
	Area Counts:	8.57e+006
	Manual Modification	No
	Amount:	32.7 (ng/mL)
	% Accuracy:	81.80

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.8
	Actual RT:	15.8
	Area Counts:	4.31e+006
	Manual Modification	Yes
	Amount:	38.4 (ng/mL)
	% Accuracy:	96.10

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.3
	Area Counts:	7.50e+006
	Manual Modification	No
	Amount:	42.2 (ng/mL)
	% Accuracy:	106.00

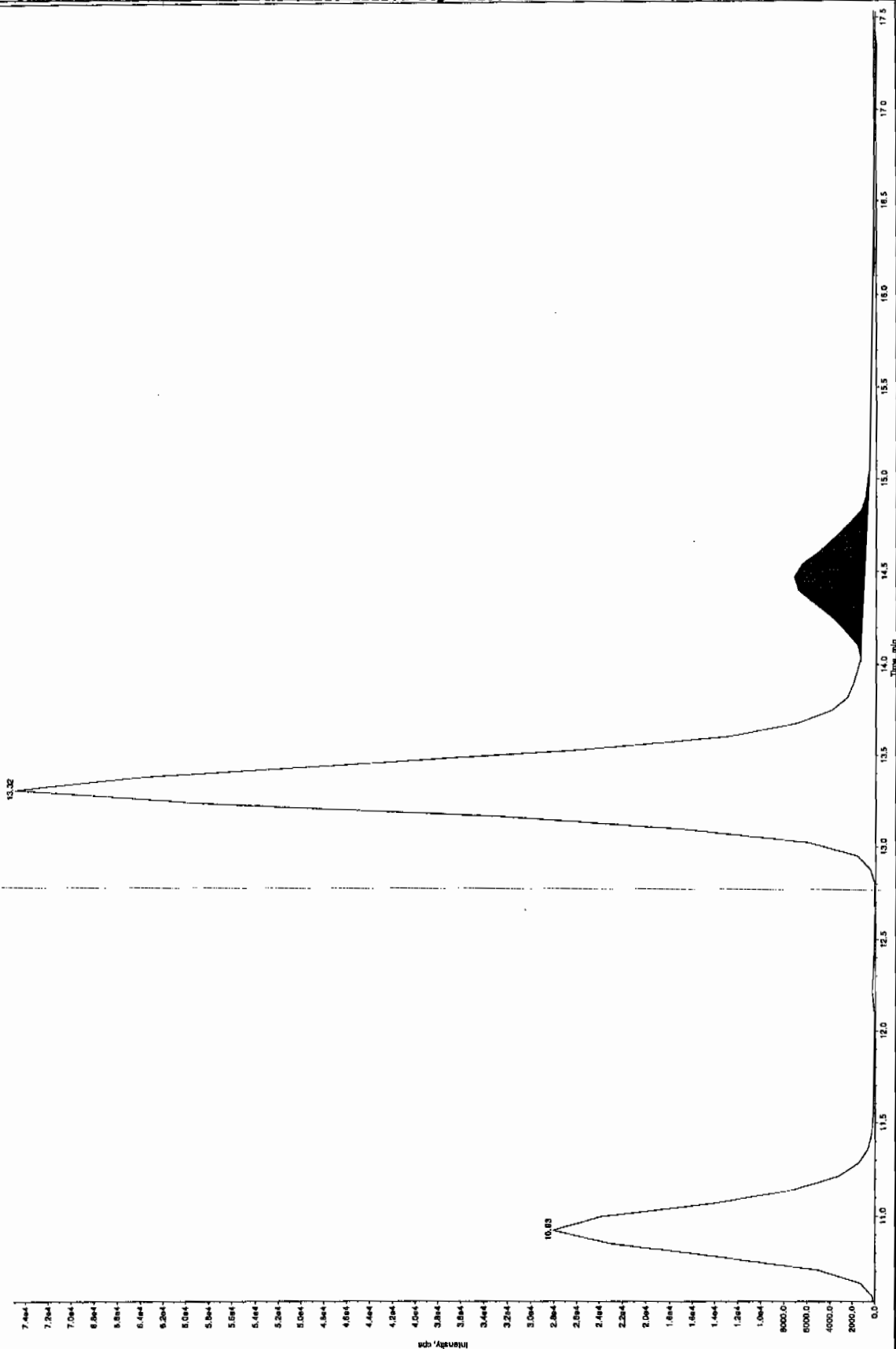
Sample Name: "WXX100312-57C6" Sample ID: "111ER" File: "EXP0012101.wif"
Peak Name: "2-Amino-4,6-dichlorobenz" Mass(es): "197.0180.0 amu"
Comment: "LOMSIEXP_C" Annotation: ""

Sample Index:	1	QC
Sample Type:	Concentration:	40.0
	Calculated Conc:	27.3
	Acq. Date:	3/16/2010
	Print Time:	5:00:24 AM

Modified:	No
Spec. Algorithm: IntelliQuan - IQA	
Min. Peak Height: 400.00	cps
Min. Peak Width:	sec
Min. Peak Width:	3 points
Min. Window:	50.0 sec
Expected RT:	1.0 min
Relative WT:	No

Unit Type:	Valley
Retention Time:	14.5 min
Area:	1.57e+05 counts
Height:	6.73e+003 cps
Start Time:	14.0 min
End Time:	15.1 min

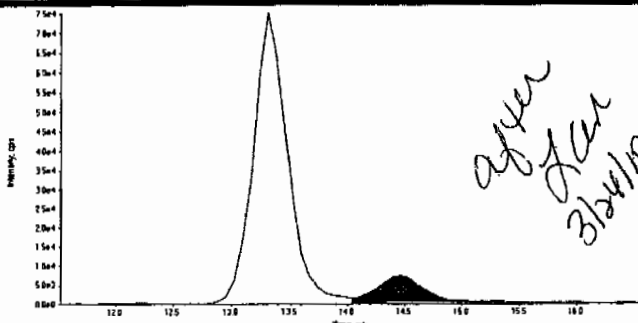
1001

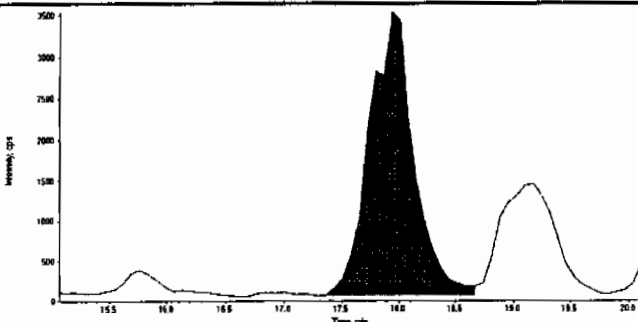


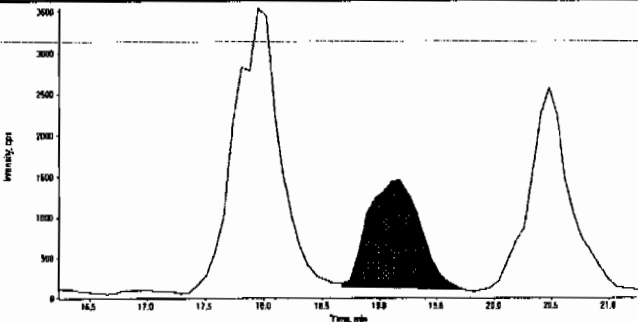
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

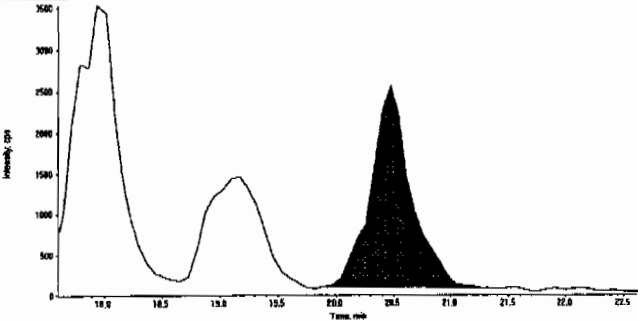
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312101.wiff	Acquisition Date	3/14/2010 5:00:24 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.5
	Area Counts:	2.02e+005
	Manual Modification	Yes
	Amount:	35.0 (ng/mL)
	% Accuracy:	87.50

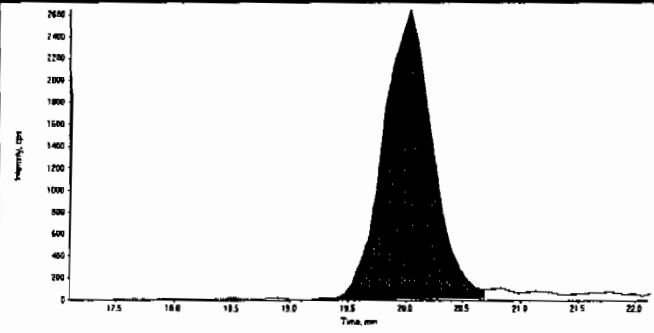
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.9
	Area Counts:	9.68e+004
	Manual Modification	No
	Amount:	30.0 (ng/mL)
	% Accuracy:	74.90

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	19.2
	Area Counts:	4.35e+004
	Manual Modification	No
	Amount:	24.5 (ng/mL)
	% Accuracy:	61.20

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.5
	Area Counts:	6.20e+004
	Manual Modification	No
	Amount:	31.4 (ng/mL)
	% Accuracy:	78.40

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312101.wiff	Acquisition Date	3/14/2010 5:00:24 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	20.0
		Area Counts:	7.98e+004
		Manual Modification	No
		Amount:	36.9 (ng/mL)
		% Accuracy:	92.10

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/14/10
 Time of Injection 0500
 Standard Number WXX100312-57CRI
 Data File EXP0312101a

HMX	98.6
RDX	91.3
TNX	100.0
DNX	102.0
MXN	92.7
135-Trinitrobenzene	122.0
13-Dinitrobenzene	114.0
Tetryl	108.0
246-Trinitrotoluene	126.0
Nitrobenzene	92.7
34-dinitrotoluene	111.0
26-dinitrotoluene	81.8
24-dinitrotoluene	96.1
4-Amino-26-dinitrotoluene	106.0
2-Amino-46-dinitrotoluene	87.5
2-Nitrotoluene	74.9
4-Nitrotoluene	61.2
3-Nitrotoluene	78.4
PETN	92.1

TOTAL

1836.3

Hmm 03/24/10

AVERAGE

✓ 96.6

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

*Stan
3/24/10*

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0312111.wiff

Analysis Date: 14-MAR-10 09:24

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
DNX	600	585	98	
HMX	600	534	89	
MNX	600	571	95	
Nitrobenzene	600	715	119	
PETN	600	593	99	
RDX	600	522	87	
TNX	600	573	96	
Tetryl	600	690	115	
m-Dinitrobenzene	600	628	105	
m-Nitrotoluene	600	510	85	
o-Nitrotoluene	600	391	65	*
p-Nitrotoluene	600	389	65	*
1,3,5-Trinitrobenzene	600	597	100	
2,4,6-Trinitrotoluene	600	559	93	
2,4-Dinitrotoluene	600	568	95	
2,6-Dinitrotoluene	600	606	101	
2-Amino-4,6-dinitrotoluene	600	526	88	
3,4-Dinitrotoluene	300	297	99	
4-Amino-2,6-dinitrotoluene	600	529	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 70-130%

Other Target Analytes 80-120%

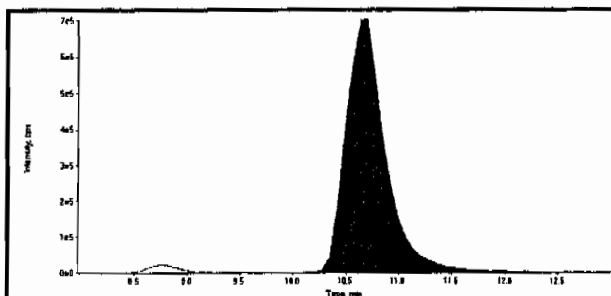
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

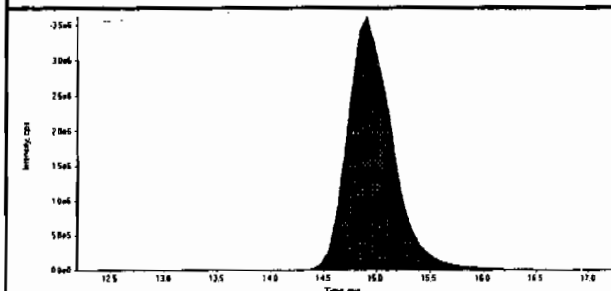
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

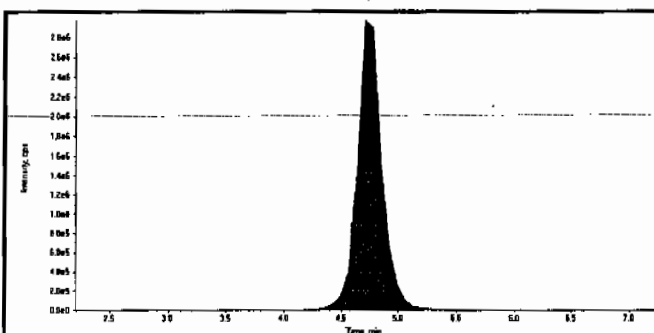
Data File	EXP0312111.wiff	Acquisition Date	3/14/2010 9:24:09 AM
Sample Name	WXX100313-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



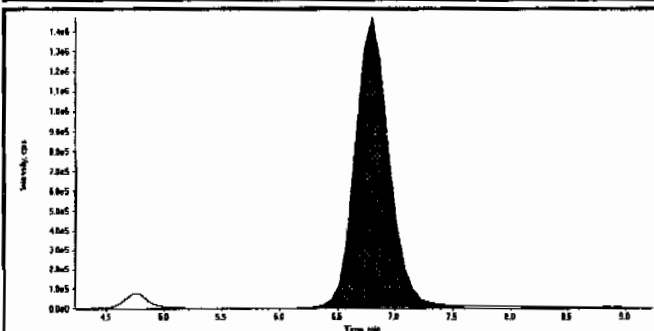
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.70
Area Counts:	18800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	109000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.70
Area Counts:	4.58e+007
Manual Modification	No
Amount:	534. (ng/mL)
% Accuracy:	89.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	3.09e+007
Manual Modification	No
Amount:	522. (ng/mL)
% Accuracy:	87.00

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03/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312111.wiff	Acquisition Date	3/14/2010 9:24:09 AM
Sample Name	WXX100313-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	3.47e+007
	Manual Modification	No
	Amount:	573. (ng/mL)
	% Accuracy:	95.50

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	3.16e+007
	Manual Modification	No
	Amount:	585. (ng/mL)
	% Accuracy:	97.50

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	1.70e+007
	Manual Modification	No
	Amount:	571. (ng/mL)
	% Accuracy:	95.20

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	1.37e+008
	Manual Modification	No
	Amount:	597. (ng/mL)
	% Accuracy:	99.60

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312111.wiff	Acquisition Date	3/14/2010 9:24:09 AM
Sample Name	WXX100313-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.8
	Area Counts:	6.32e+007
	Manual Modification	No
	Amount:	628. (ng/mL)
	% Accuracy:	105.00

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.9
	Area Counts:	8.98e+007
	Manual Modification	No
	Amount:	690. (ng/mL)
	% Accuracy:	115.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.3
	Area Counts:	2.86e+008
	Manual Modification	No
	Amount:	559. (ng/mL)
	% Accuracy:	93.20

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	4.08e+006
	Manual Modification	No
	Amount:	715. (ng/mL)
	% Accuracy:	119.00

Before Jan 3/24/10

Sample Name: 1527053155000P Sample ID: 1527053155000P File: 1527053155000P

Peak Name: 1527053155000P Peak Number: 1527053155000P

Comment: 1527053155000P Annotation: 1527053155000P

Sample Index: 1

Sample Type: QC

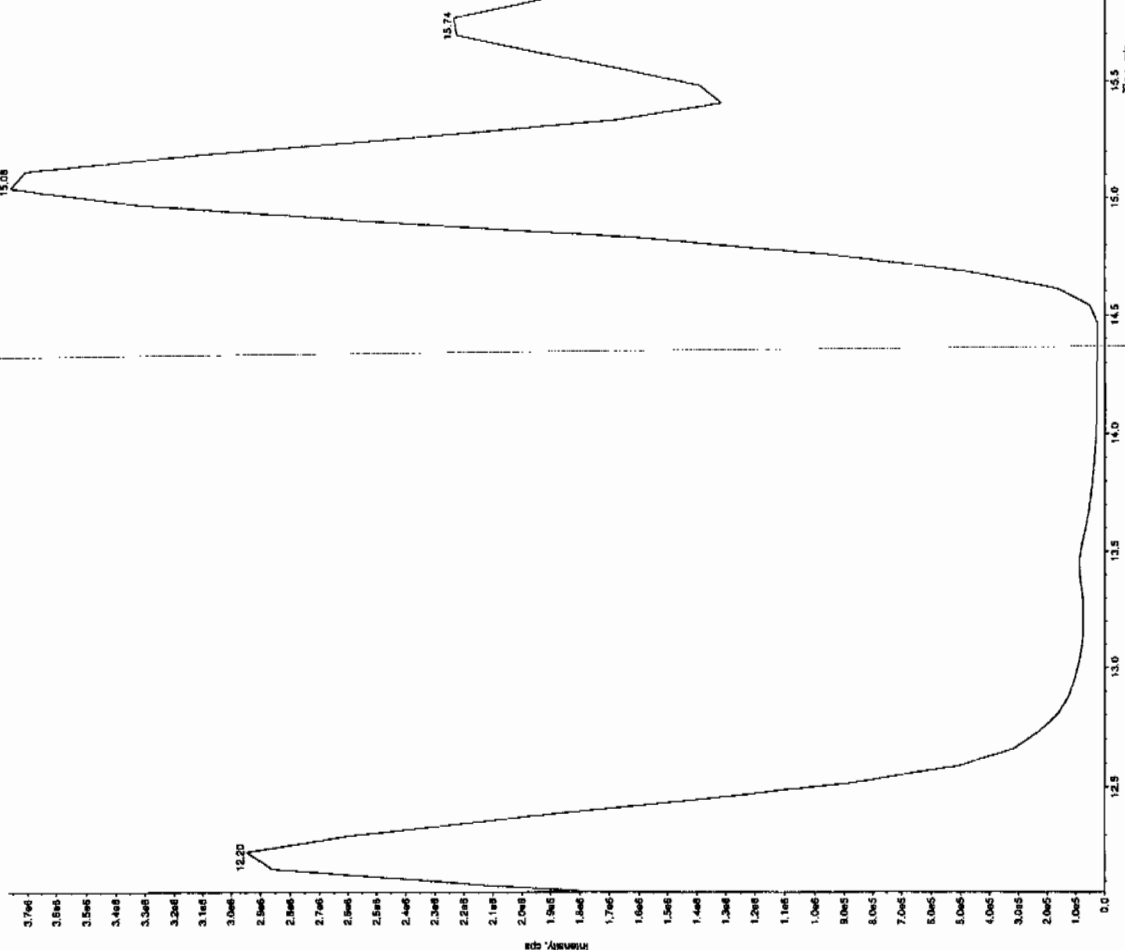
Sample Concentration: 5000 ng/mL

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/14/2010

Acq. Time: 9:24:09 AM

Isolated: No



GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312111.wiff	Acquisition Date	3/14/2010 9:24:09 AM
Sample Name	WXX100313-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

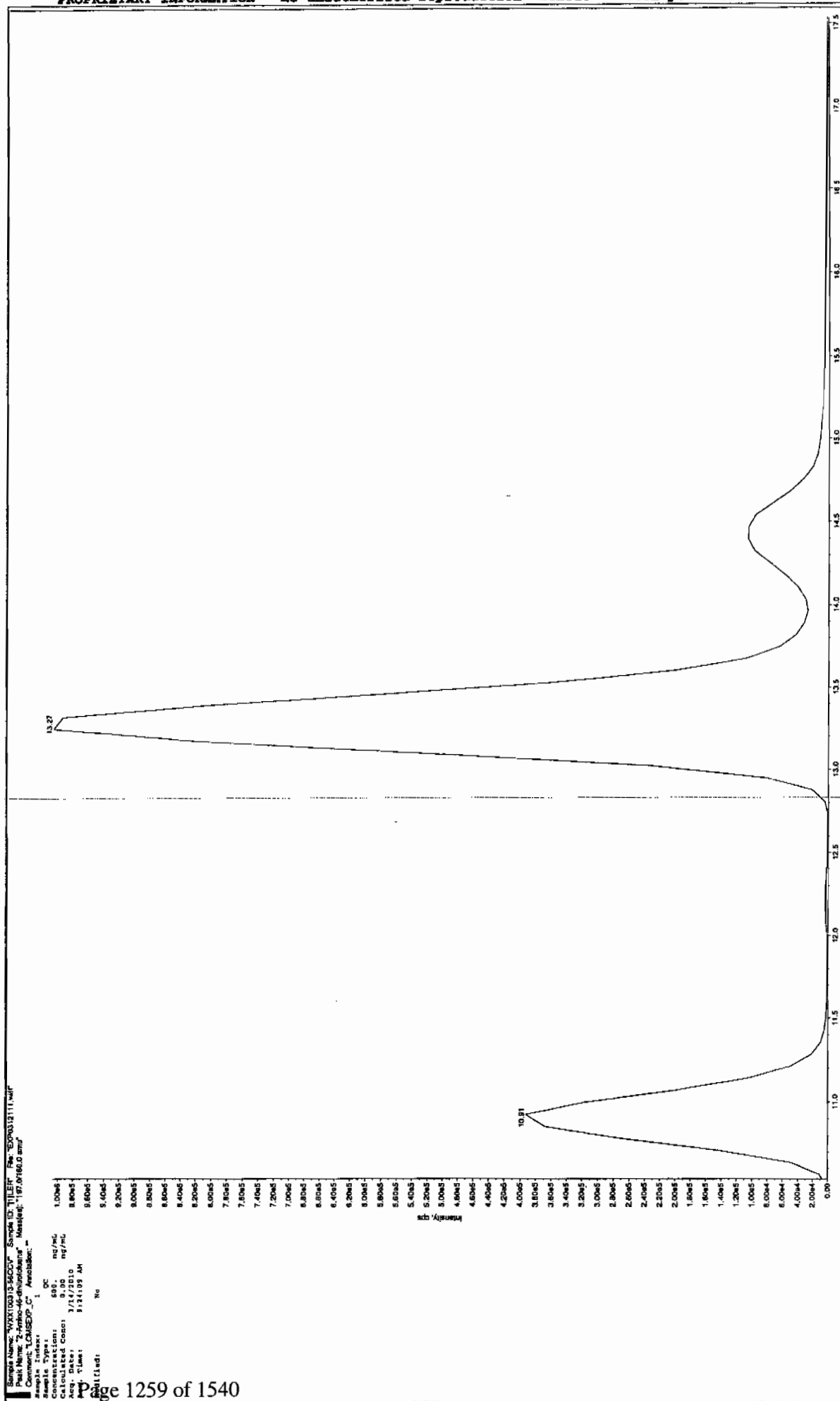
	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	7.99e+007
	Manual Modification	No
	Amount:	297. (ng/mL)
	% Accuracy:	99.00

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	15.0
	Area Counts:	1.07e+008
	Manual Modification	No
	Amount:	606. (ng/mL)
	% Accuracy:	101.00

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.7
	Area Counts:	7.29e+007
	Manual Modification	Yes
	Amount:	568. (ng/mL)
	% Accuracy:	94.70

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.3
	Area Counts:	1.08e+008
	Manual Modification	No
	Amount:	529. (ng/mL)
	% Accuracy:	88.20

Before 3/24/10



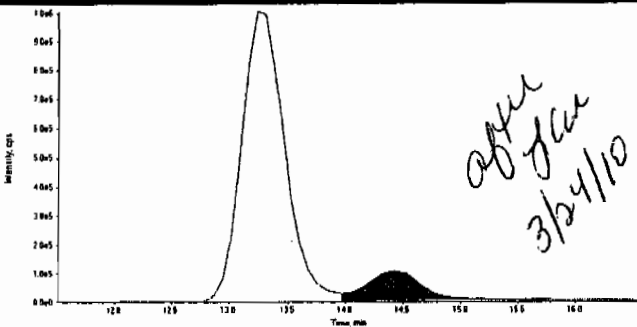
Sample Name: WXX10013-56007 Sample ID: T1LEH File: EX0013111.MLF
Peak Name: 2-amino-46-dihydroquinone Mass(es): 197.0760.0 amu
Comment: LCMSEXP_C* Acquisition: "

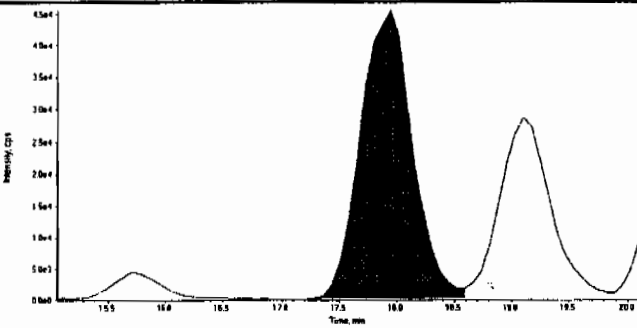
Sample Index: 1
Concentration: 598.00 ng/mL
Acq. Date: 3/14/2010
Acq. Time: 11:11:19 AM
Pilot: No

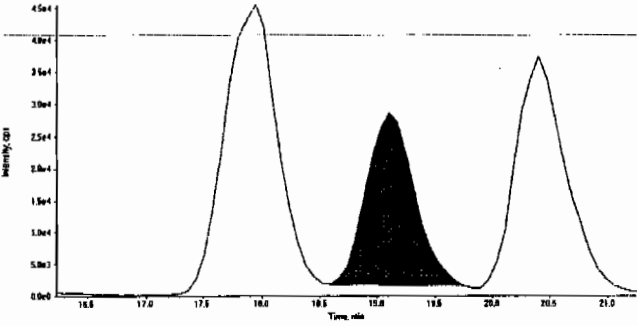
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

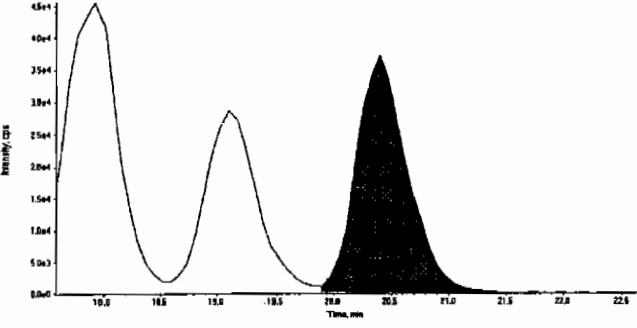
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312111.wiff	Acquisition Date	3/14/2010 9:24:09 AM
Sample Name	WXX100313-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.4
	Area Counts:	3.47e+006
	Manual Modification	Yes
	Amount:	526. (ng/mL)
	% Accuracy:	87.70

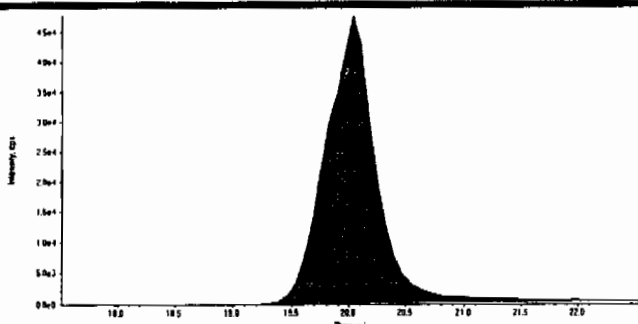
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.9
	Area Counts:	1.44e+006
	Manual Modification	No
	Amount:	391. (ng/mL)
	% Accuracy:	65.10

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	19.1
	Area Counts:	7.90e+005
	Manual Modification	No
	Amount:	389. (ng/mL)
	% Accuracy:	64.80

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.4
	Area Counts:	1.15e+006
	Manual Modification	No
	Amount:	510. (ng/mL)
	% Accuracy:	85.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312111.wiff	Acquisition Date	3/14/2010 9:24:09 AM
Sample Name	WXX100313-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	20.0
		Actual RT:	20.0
		Area Counts:	1.47e+006
		Manual Modification	Yes
		Amount:	593. (ng/mL)
		% Accuracy:	98.90

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/14/10
 Time of Injection 0924
 Standard Number WXX100312-56CCV
 Data File EXP0312111a

HMX	89.0
RDX	87.0
TNX	95.5
DNX	97.5
MNX	95.2
135-Trinitrobenzene	99.6
13-Dinitrobenzene	105.0
Tetryl	115.0
246-Trinitrotoluene	93.2
Nitrobenzene	119.0
34-dinitrotoluene	99.0
26-dinitrotoluene	101.0
24-dinitrotoluene	94.7
4-Amino-26-dinitrotoluene	88.2
2-Amino-46-dinitrotoluene	87.7
2-Nitrotoluene	65.1
4-Nitrotoluene	64.8
3-Nitrotoluene	85.0
PETN	98.9

TOTAL

1780.4

Handwritten: HMX 03/24/10

AVERAGE

✓ 93.7

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Handwritten: dca
3/24/10

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0312113.wiff

Analysis Date: 14-MAR-10 10:16

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	53.1	133	
2,4,6-Trinitrotoluene	40	51.6	129	
2,4-Dinitrotoluene	40	42.3	106	
2,6-Dinitrotoluene	40	27.1	68	
2-Amino-4,6-dinitrotoluene	40	39.2	98	
3,4-Dinitrotoluene	20	22.1	111	
4-Amino-2,6-dinitrotoluene	40	42.5	106	
DNX	40	49.2	123	
HMX	40	45.8	114	
MXN	40	40.7	102	
Nitrobenzene	40	38	95	
PETN	40	48	120	
RDX	40	43.2	108	
TNX	40	40.4	101	
Tetryl	40	48.4	121	
m-Dinitrobenzene	40	43.4	109	
m-Nitrotoluene	40	33.4	83	
o-Nitrotoluene	40	33	82	
p-Nitrotoluene	40	34.3	86	

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%

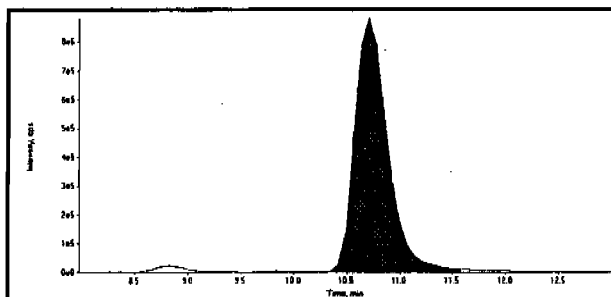
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

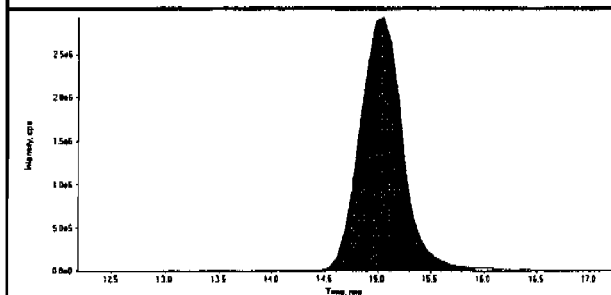
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

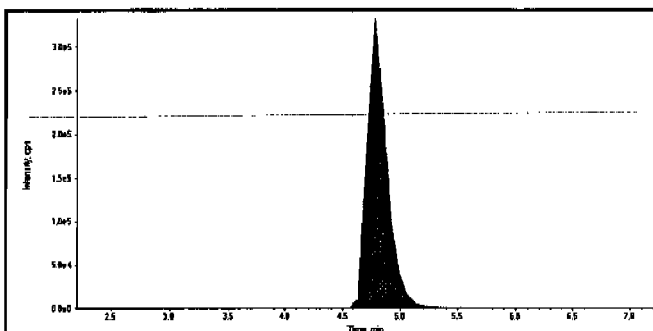
Data File	EXP0312113.wiff	Acquisition Date	3/14/2010 10:16:57 AM
Sample Name	WXX100313-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



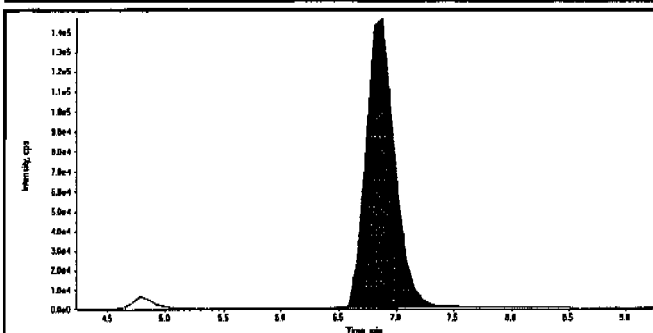
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.70
Area Counts:	19200000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	15.00
Area Counts:	82900000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.02e+006
Manual Modification	No
Amount:	45.8 (ng/mL)
% Accuracy:	114.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.87
Area Counts:	2.61e+006
Manual Modification	No
Amount:	43.2 (ng/mL)
% Accuracy:	108.00

OK
3/24/10 *HW*
03/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312113.wiff	Acquisition Date	3/14/2010 10:16:57 AM
Sample Name	WXX100313-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	2.50e+006
	Manual Modification	No
	Amount:	40.4 (ng/mL)
	% Accuracy:	101.00

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	2.71e+006
	Manual Modification	No
	Amount:	49.2 (ng/mL)
	% Accuracy:	123.00

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.15
	Area Counts:	1.24e+006
	Manual Modification	No
	Amount:	40.7 (ng/mL)
	% Accuracy:	102.00

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.12
	Area Counts:	1.25e+007
	Manual Modification	No
	Amount:	53.1 (ng/mL)
	% Accuracy:	133.00

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

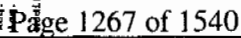
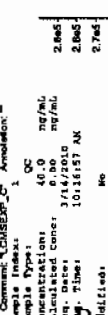
Data File	EXP0312113.wiff	Acquisition Date	3/14/2010 10:16:57 AM
Sample Name	WXX100313-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.9
	Area Counts:	4.46e+006
	Manual Modification	No
	Amount:	43.4 (ng/mL)
	% Accuracy:	109.00

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.9
	Area Counts:	6.43e+006
	Manual Modification	No
	Amount:	48.4 (ng/mL)
	% Accuracy:	121.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.4
	Area Counts:	2.01e+007
	Manual Modification	No
	Amount:	51.6 (ng/mL)
	% Accuracy:	129.00

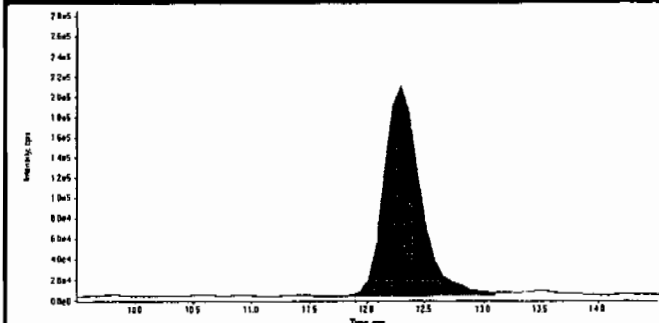
	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	12.0
	Area Counts:	2.21e+005
	Manual Modification	No
	Amount:	38.0 (ng/mL)
	% Accuracy:	94.90

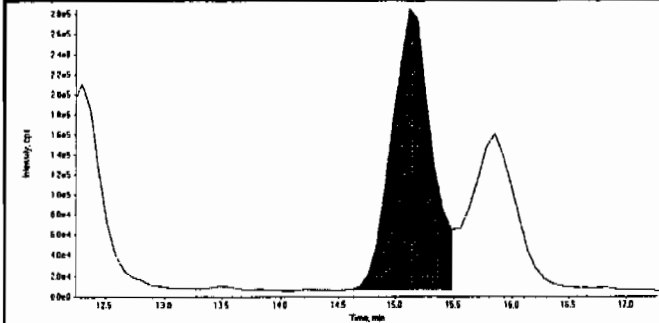


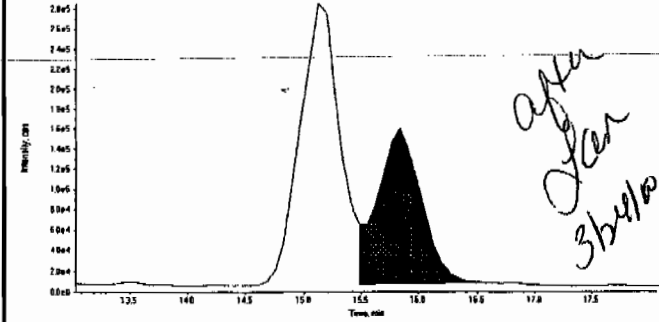
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

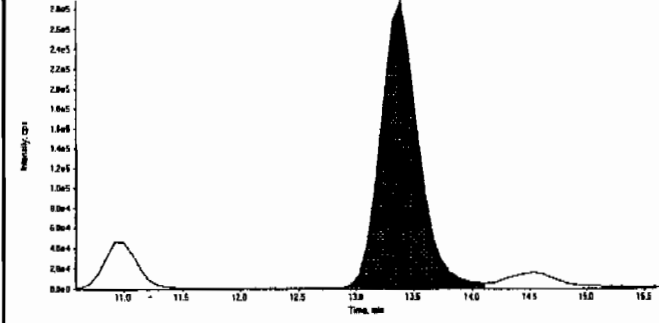
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312113.wiff	Acquisition Date	3/14/2010 10:16:57 AM
Sample Name	WXX100313-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.3
	Area Counts:	4.52e+006
	Manual Modification	No
	Amount:	22.1 (ng/mL)
	% Accuracy:	111.00

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	15.1
	Area Counts:	6.73e+006
	Manual Modification	No
	Amount:	27.1 (ng/mL)
	% Accuracy:	67.70

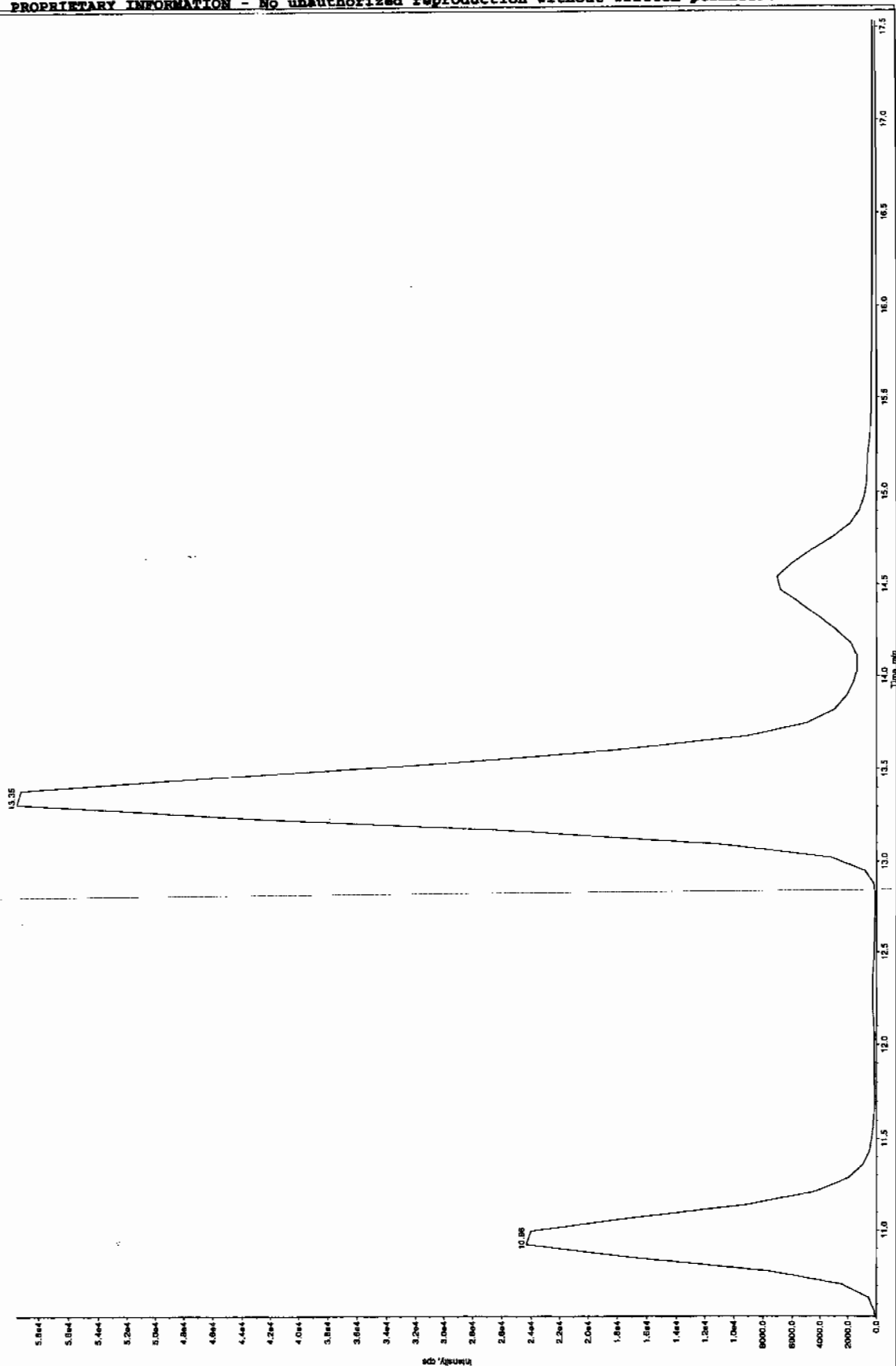
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.8
	Area Counts:	4.13e+006
	Manual Modification	Yes
	Amount:	42.3 (ng/mL)
	% Accuracy:	106.00

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.4
	Area Counts:	6.57e+006
	Manual Modification	No
	Amount:	42.5 (ng/mL)
	% Accuracy:	106.00

Before Run 3124110

Sample Name: "WXX10031357CH" Sample ID: "TILER" File: "EXP031213.mf"
 Peak Name: "2-Hydroxy-46-dimethyl-1H-imidazole" Molecule: "197.0760.0 Amu"
 Concentration: "COMBUSTION" Amount: "1"

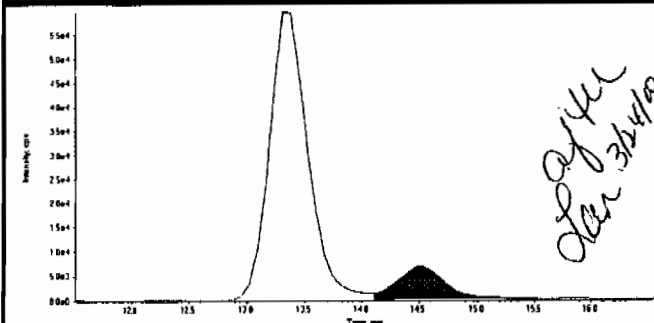
Sample Type: 1 QC
 Concentration: 40.0 ng/mL
 Calculated Conc: 0.000 ng/mL
 Retention Time: 11.0760 min
 MS/MS Time: 10.15157 AM
 Modified: No

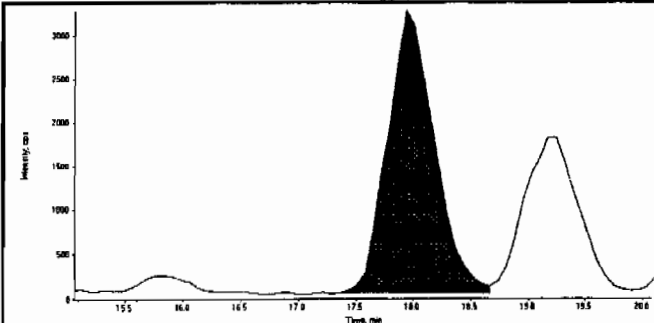


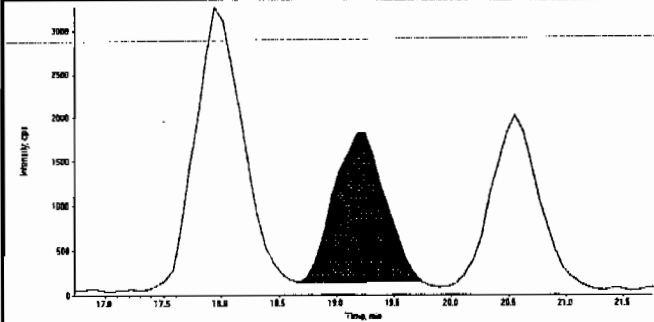
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

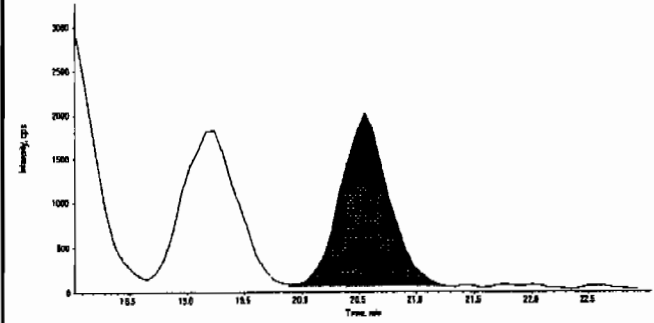
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312113.wiff	Acquisition Date	3/14/2010 10:16:57 AM
Sample Name	WXX100313-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

 <p><i>Agilent Jan 31/4/10</i></p>	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.5
	Area Counts:	1.97e+005
	Manual Modification	Yes
	Amount:	39.2 (ng/mL)
	% Accuracy:	98.10

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.9
	Area Counts:	9.27e+004
	Manual Modification	No
	Amount:	33.0 (ng/mL)
	% Accuracy:	82.40

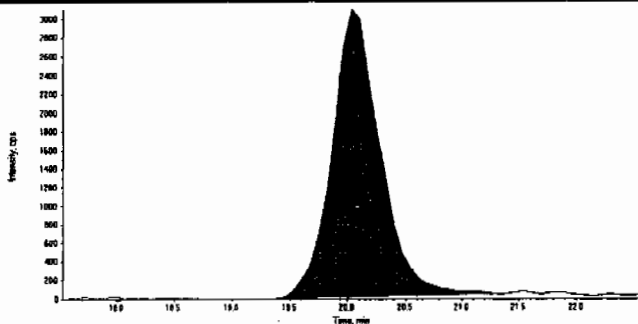
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	19.2
	Actual RT:	19.2
	Area Counts:	5.30e+004
	Manual Modification	Yes
	Amount:	34.3 (ng/mL)
	% Accuracy:	85.60

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.5
	Actual RT:	20.5
	Area Counts:	5.74e+004
	Manual Modification	Yes
	Amount:	33.4 (ng/mL)
	% Accuracy:	83.40

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312113.wiff	Acquisition Date	3/14/2010 10:16:57 AM
Sample Name	WXX100313-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	20.0
	Actual RT:	20.0
	Area Counts:	9.05e+004
	Manual Modification	Yes
	Amount:	48.0 (ng/mL)
	% Accuracy:	120.00

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis 03/14/10
 Time of Injection 1016
 Standard Number WXX100312-57CRI
 Data File EXP0312113a

HMX	114.0
RDX	108.0
TNX	101.0
DNX	123.0
MNX	102.0
135-Trinitrobenzene	133.0
13-Dinitrobenzene	109.0
Tetryl	121.0
246-Trinitrotoluene	129.0
Nitrobenzene	94.9
34-dinitrotoluene	111.0
26-dinitrotoluene	67.7
24-dinitrotoluene	106.0
4-Amino-26-dinitrotoluene	106.0
2-Amino-46-dinitrotoluene	98.1
2-Nitrotoluene	82.4
4-Nitrotoluene	85.6
3-Nitrotoluene	83.4
PETN	120.0

TOTAL

1995.1

ICV Limits 85-115%

AVERAGE

✓ 105.0

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

San
3/24/10

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

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
TATB	100	104	104	
tris(o-cresyl) phosphate	100	101	101	
3,5-Dinitroaniline	100	100	100	
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	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

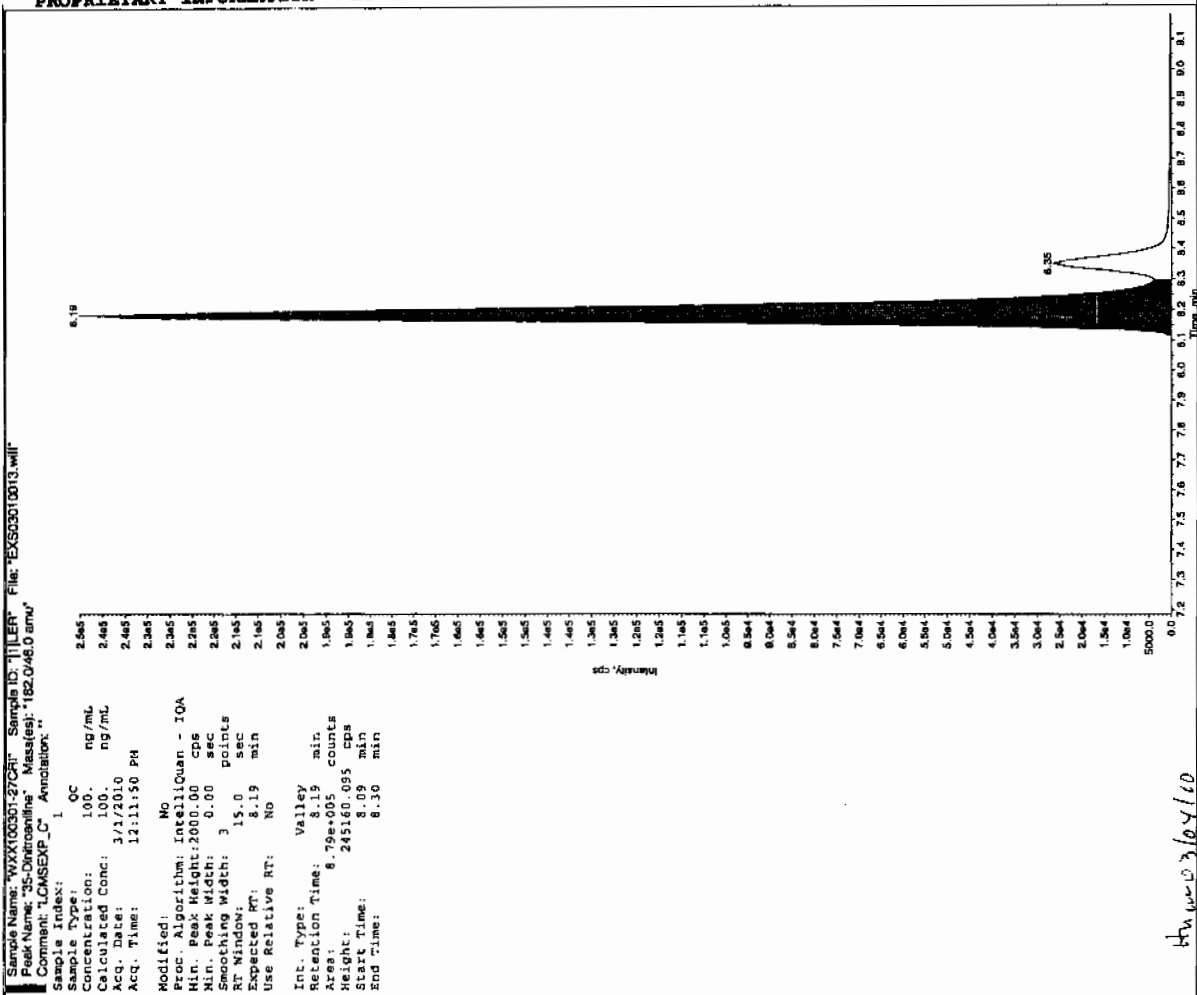
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

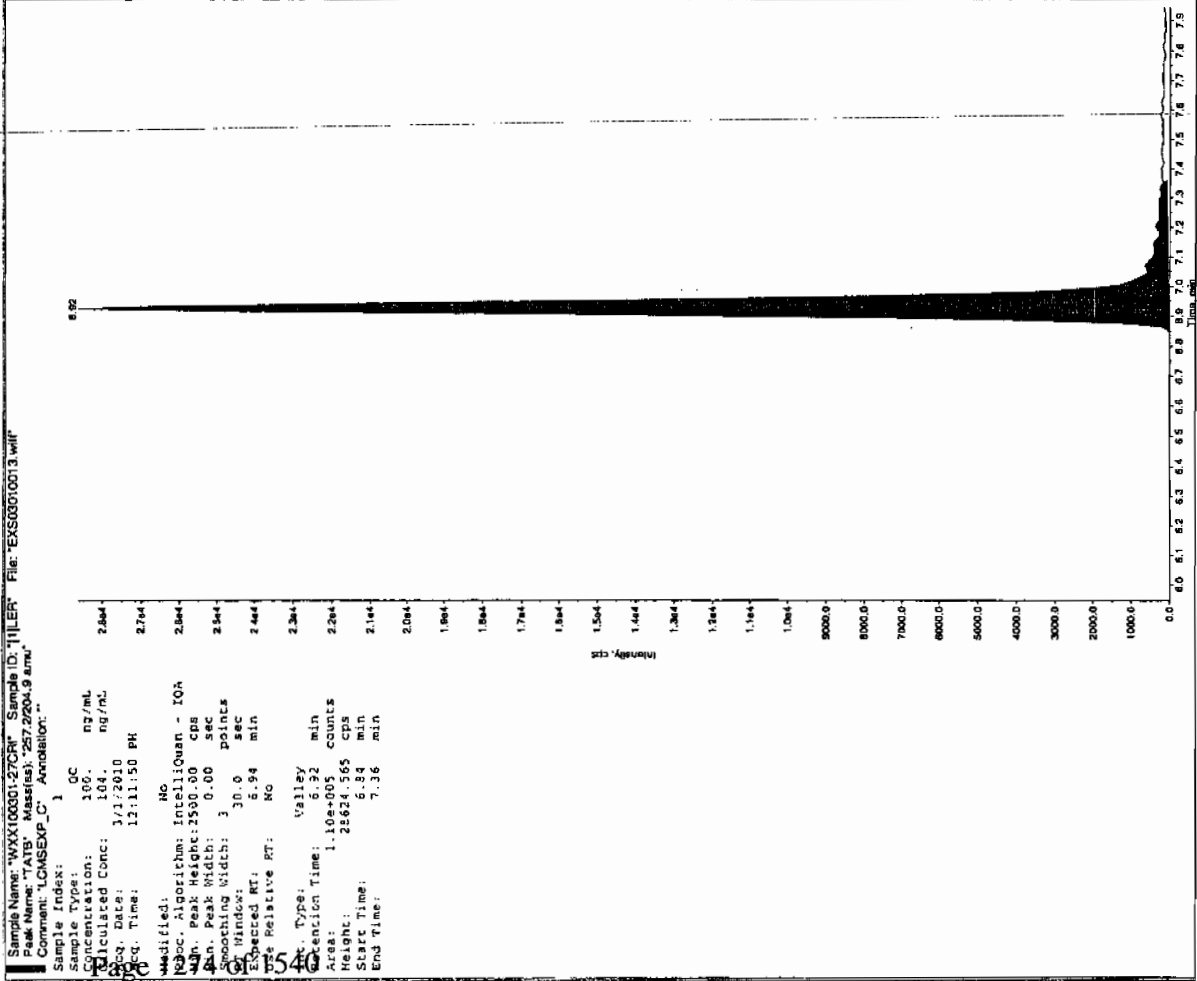
Column used to flag Recovery outside of Limits

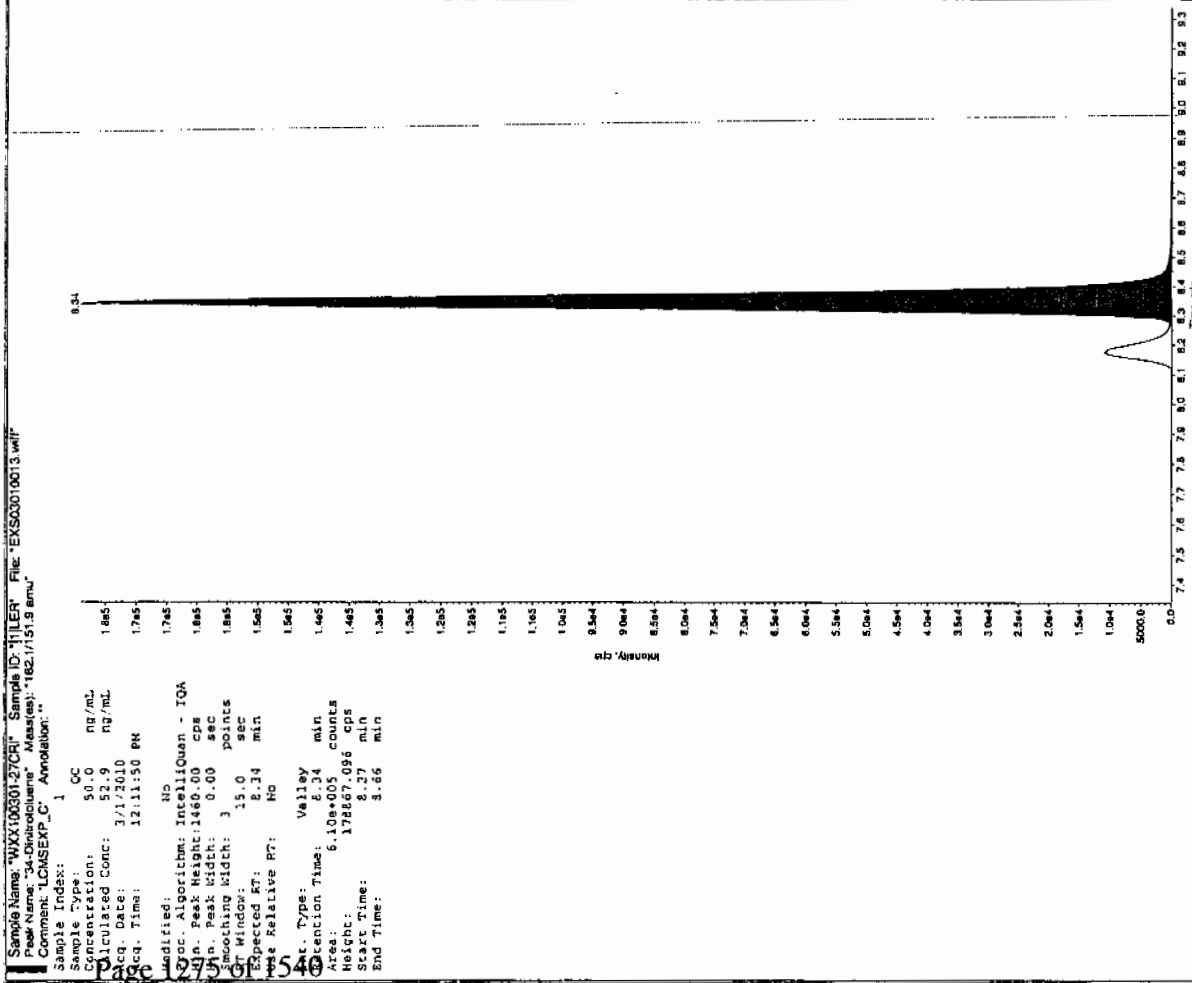
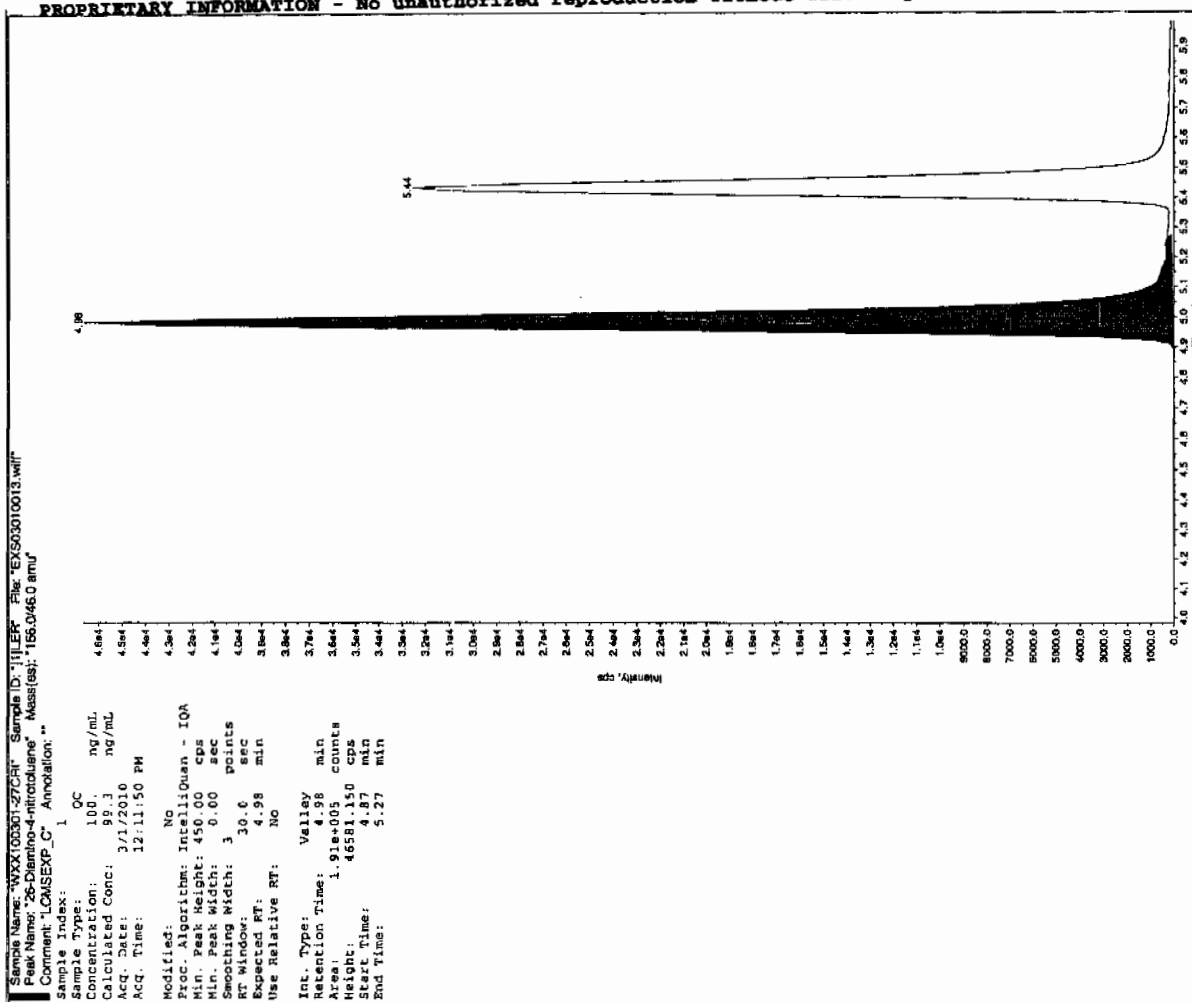
* Value outside of Recovery Limits

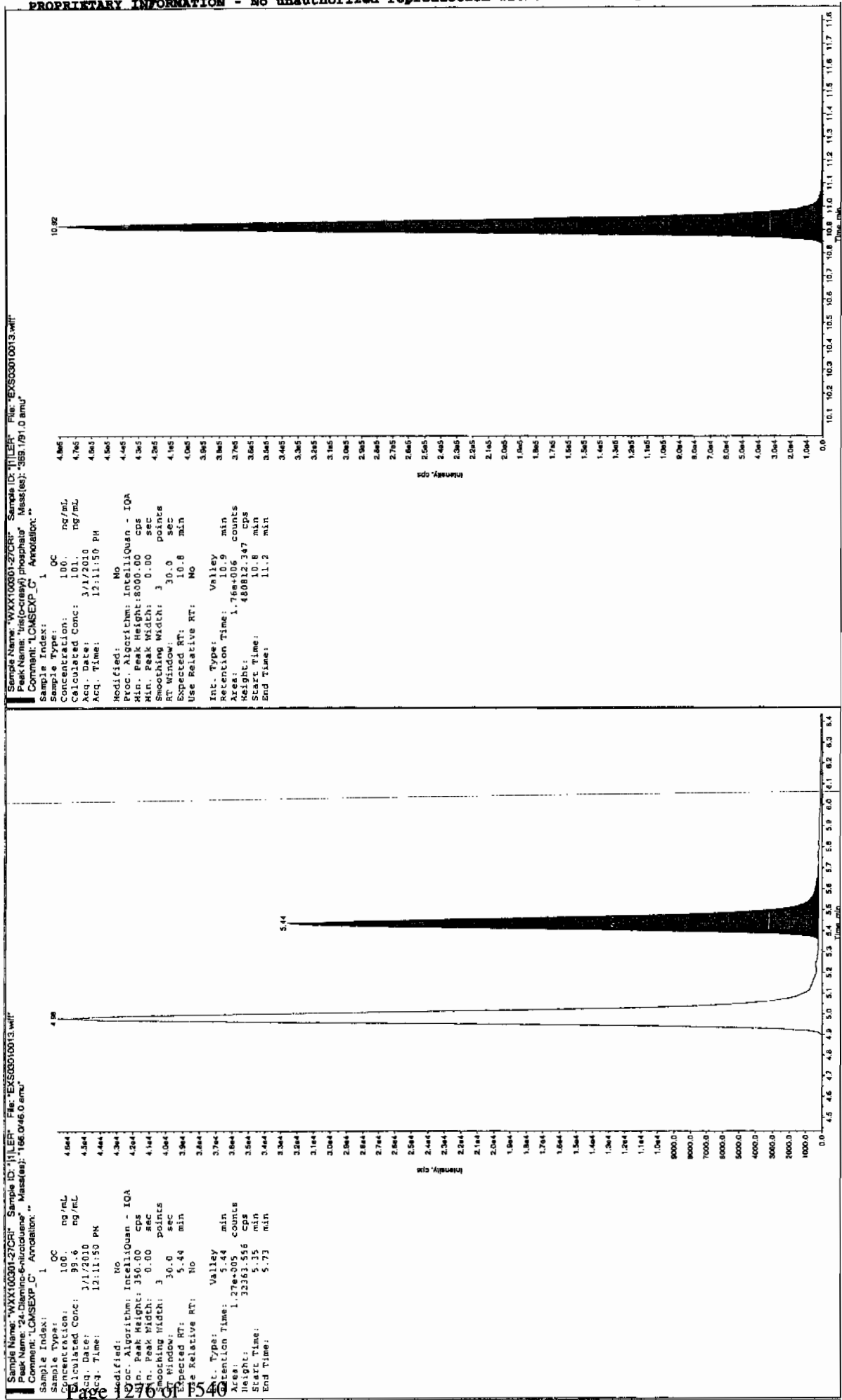
Run 3/3/10



Run 3/3/10







7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

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 ,

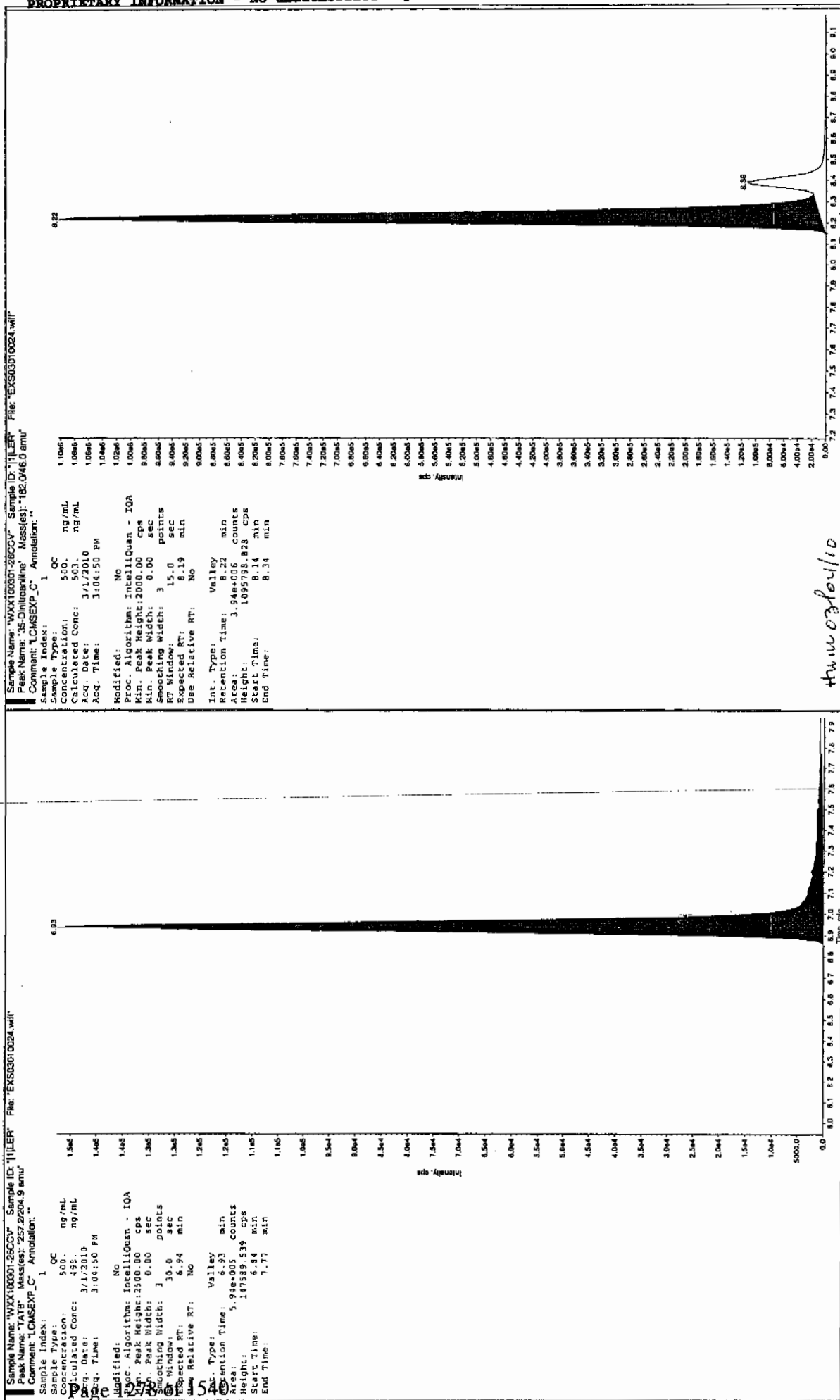
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

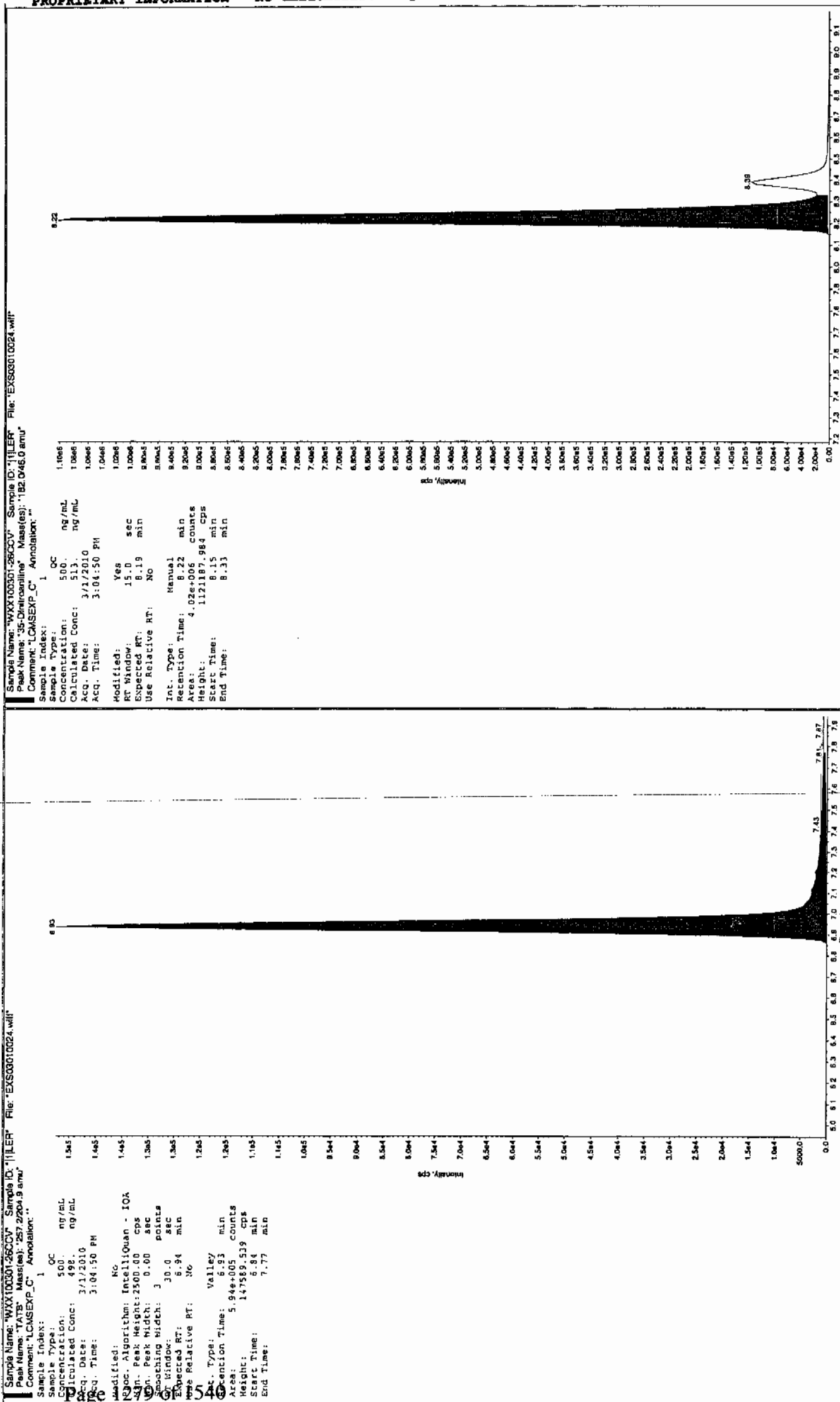
* Value outside of Recovery Limits

Before Jan 3/3/10



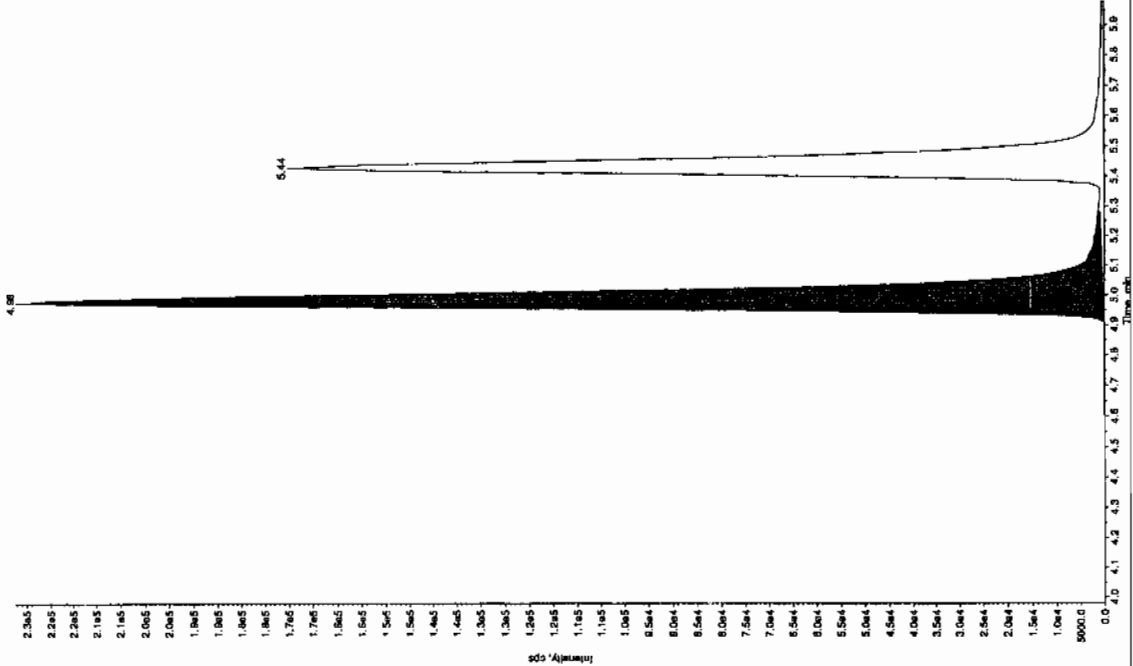
thru 03/04/10

After Run 3/13/10



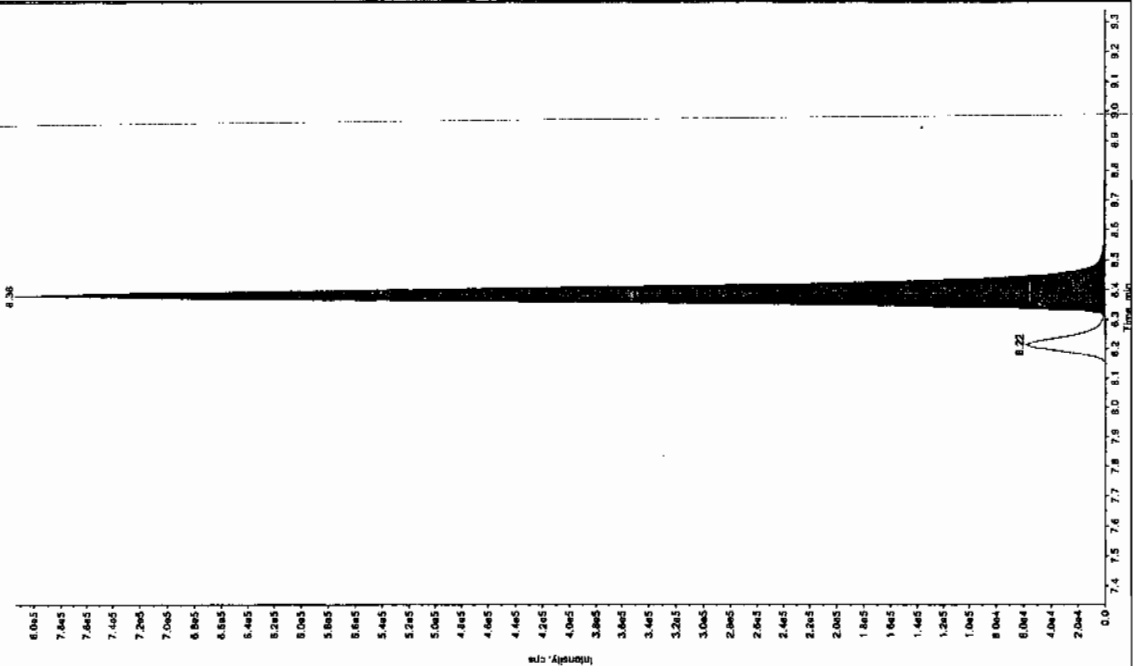
Sample Name: "WXX100301-26C0V" Sample ID: "111ER" File: "EXS03010024.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "156.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

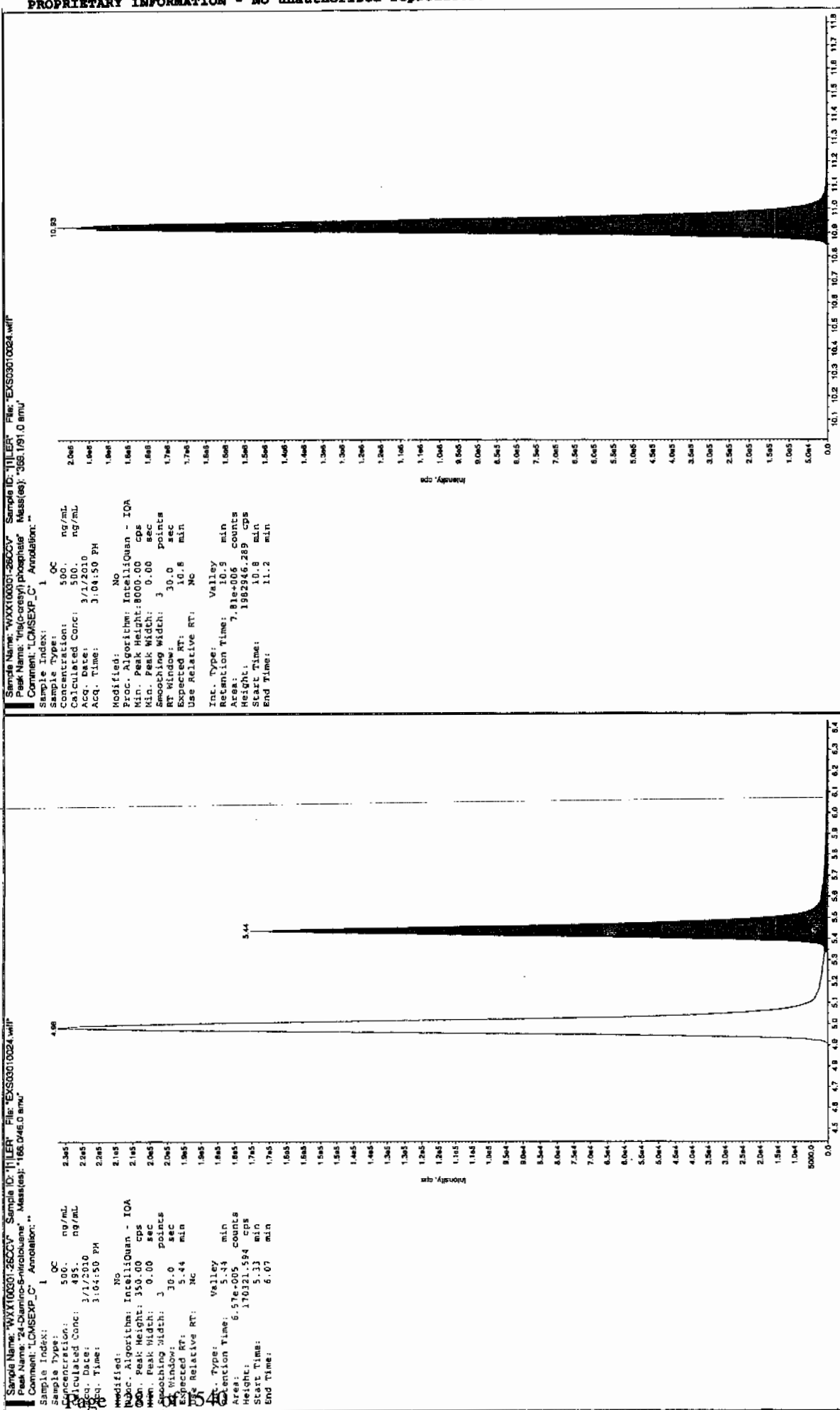
Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 499. ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 3:04:50 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 4.98 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.98 min
 Area: 9.31e+005 counts
 Height: 227229.340 cps
 Start Time: 4.90 min
 End Time: 5.28 min



Sample Name: "WXX100301-26C0V" Sample ID: "111ER" File: "EXS03010024.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1151.8 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 250. ng/mL
 Calculated Conc: 229. ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 3:04:50 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 15.0 sec
 Expected RT: 8.34 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.34 min
 Area: 2.79e+006 counts
 Height: 813607.007 cps
 Start Time: 8.31 min
 End Time: 8.71 min





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

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:

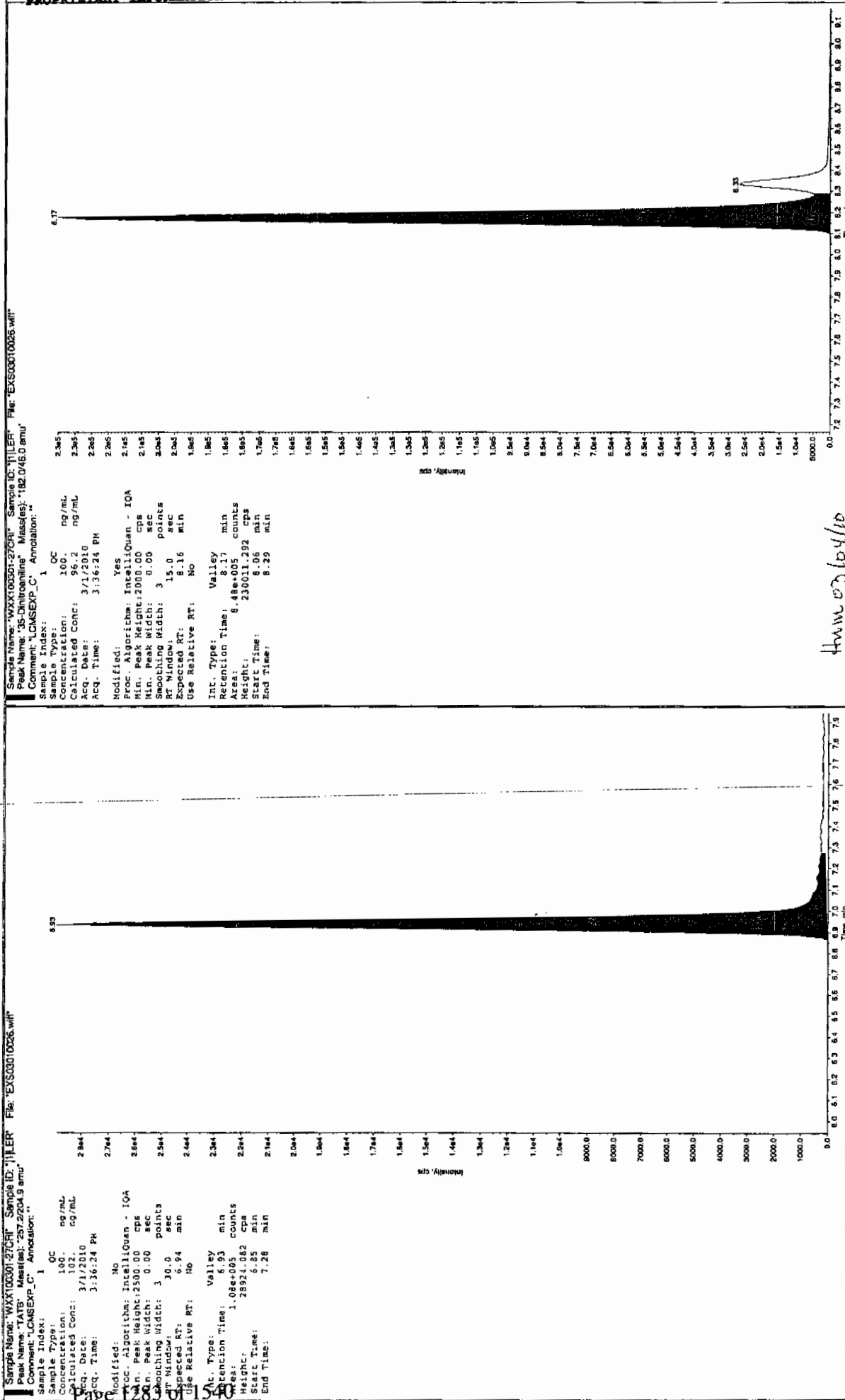
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

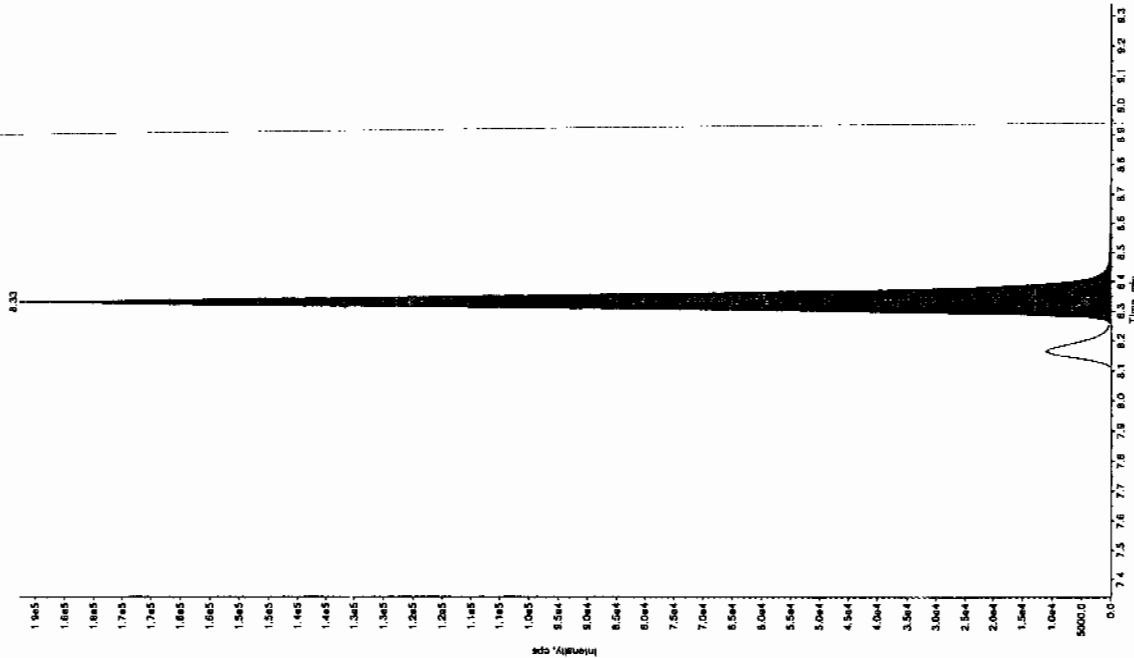
* Value outside of Recovery Limits

Rev 3/3/10



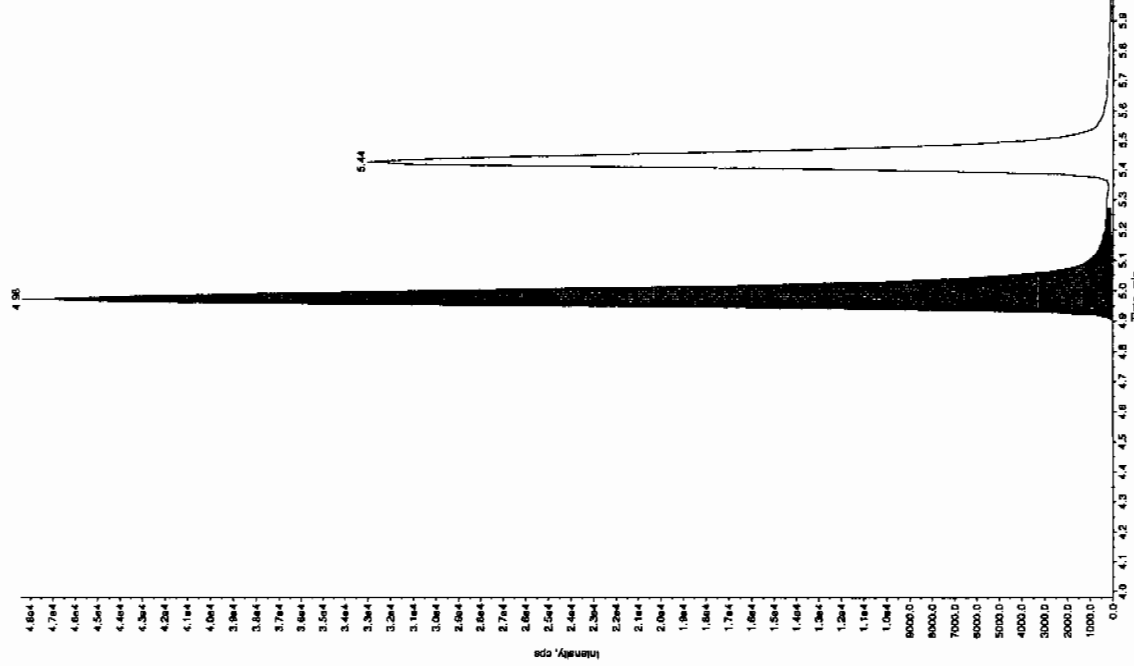
Sample Name: "WXX100301-270R" Sample ID: "11ER" File: "EX30010026.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/181.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

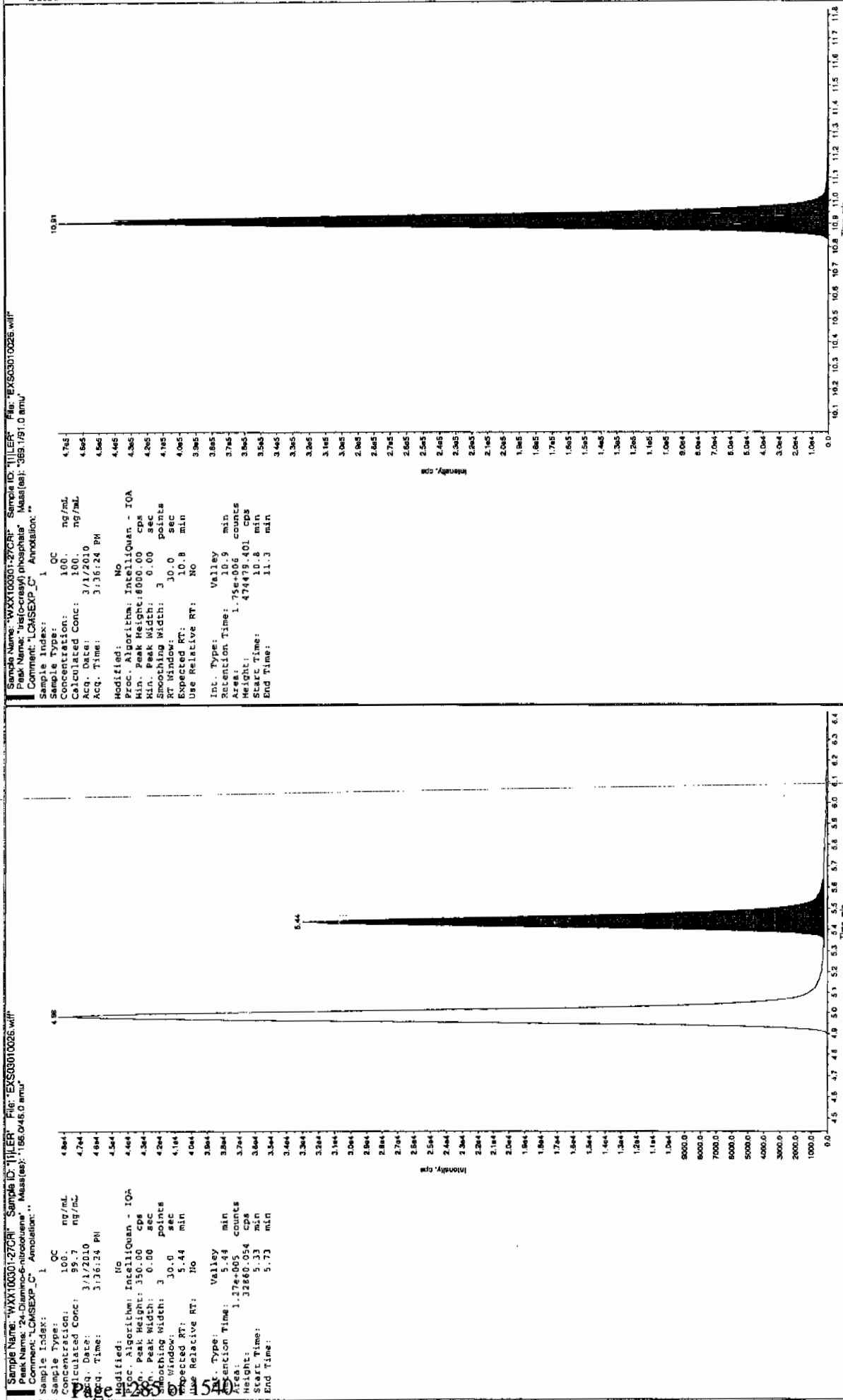
Sample Index: 1
 Sample Type: OC
 Concentration: 50.0 ng/mL
 Calculated Conc: 52.7 ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 3:36:24 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 3.00 points
 RT Window: 15.0 sec
 Expected RT: 8.34 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 6.07e+005 counts
 Height: 18778.061 cps
 Start Time: 8.26 min
 End Time: 8.67 min



Sample Name: "WXX100301-270R" Sample ID: "11ER" File: "EX30010026.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "186.0/185.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: OC
 Concentration: 100. ng/mL
 Calculated Conc: 101. ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 3:36:24 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 3.00 points
 RT Window: 30.0 sec
 Expected RT: 4.98 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.98 min
 Area: 1.95e+005 counts
 Height: 48368.607 cps
 Start Time: 4.89 min
 End Time: 5.27 min





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

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
3,4-Dinitrotoluene	250	235	94	
3,5-Dinitroaniline	500	501	100	
TATB	500	493	99	
tris(o-cresyl) phosphate	500	484	97	
2,4-Diamino-6-nitrotoluene	500	503	101	
2,6-Diamino-4-nitrotoluene	500	525	105	

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

Sample Name: "WXX100301-260CV" Sample ID: "111ER" File: "EXS03010037.wht"
 Peak Name: "3S-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

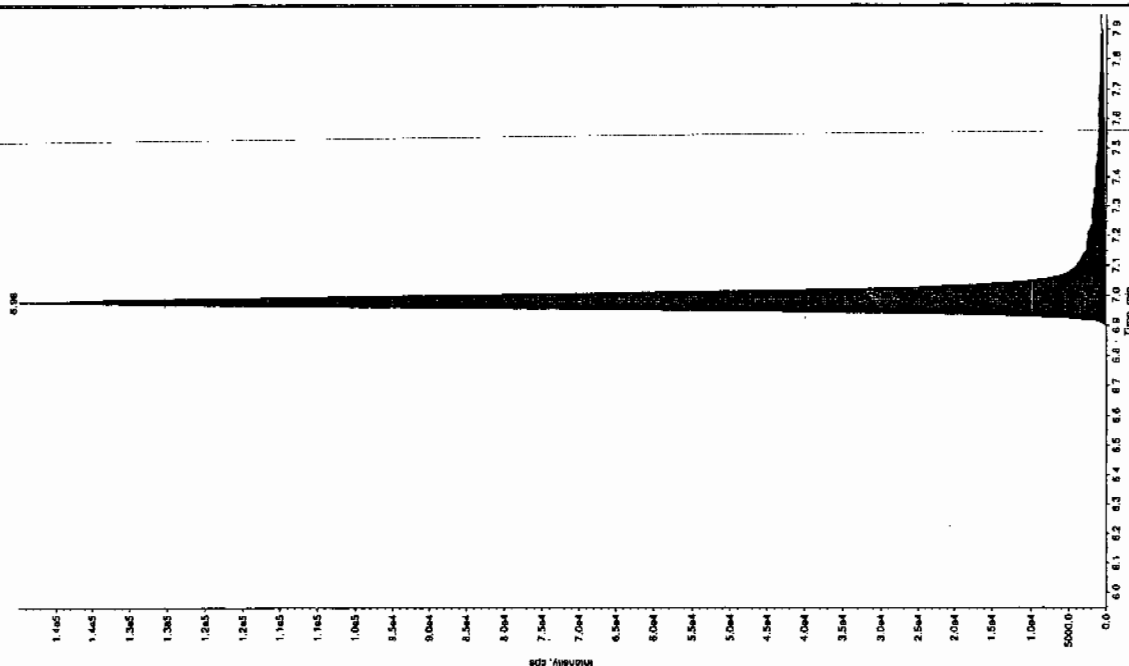
Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 486. ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 6:29:39 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.19 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.22 min
 Area: 3.432e+006 counts
 Height: 1053230.835 cps
 Start Time: 8.14 min
 End Time: 8.32 min



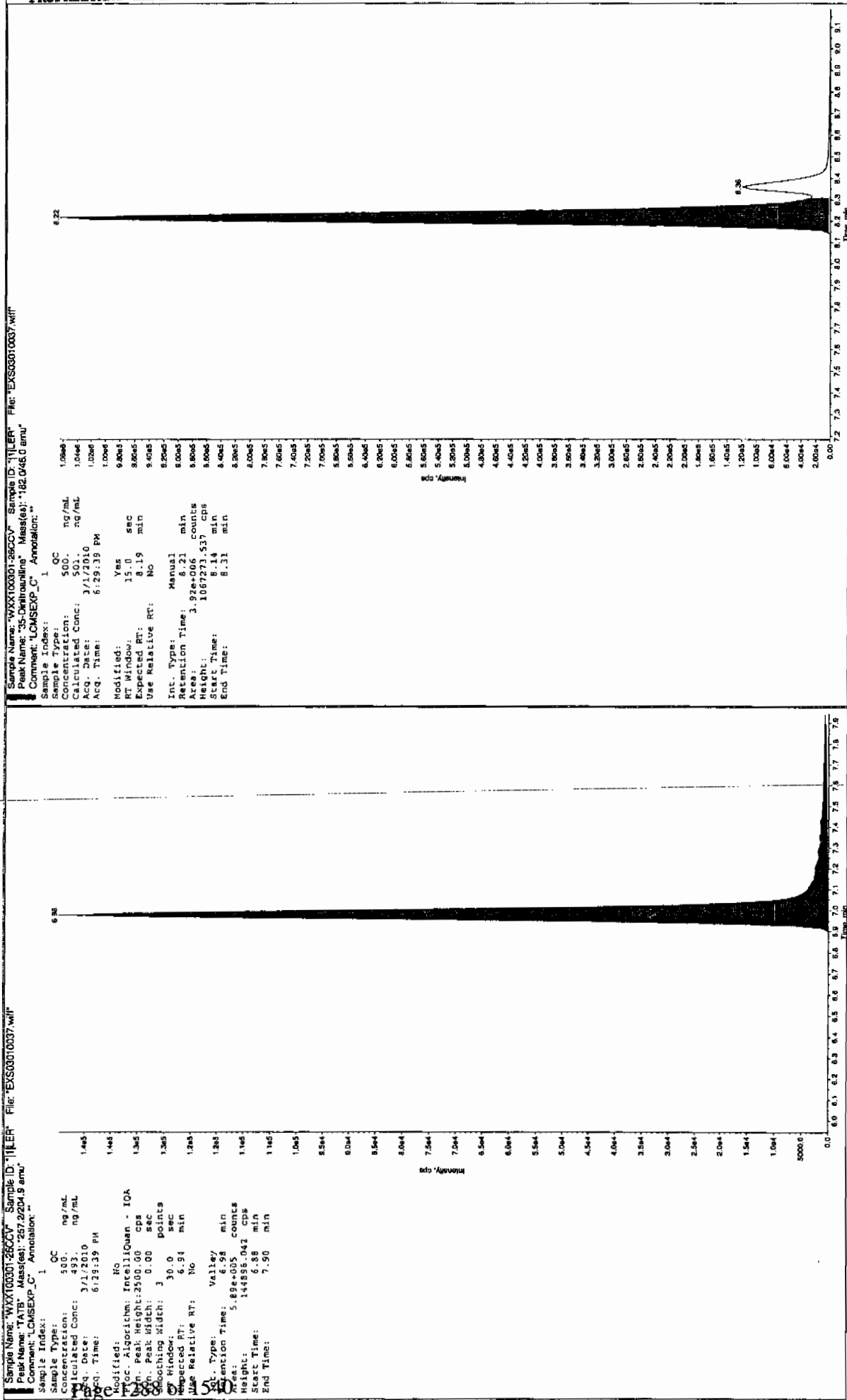
Item 3/3/10

Sample Name: "WXX100301-260CV" Sample ID: "111ER" File: "EXS03010037.wht"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

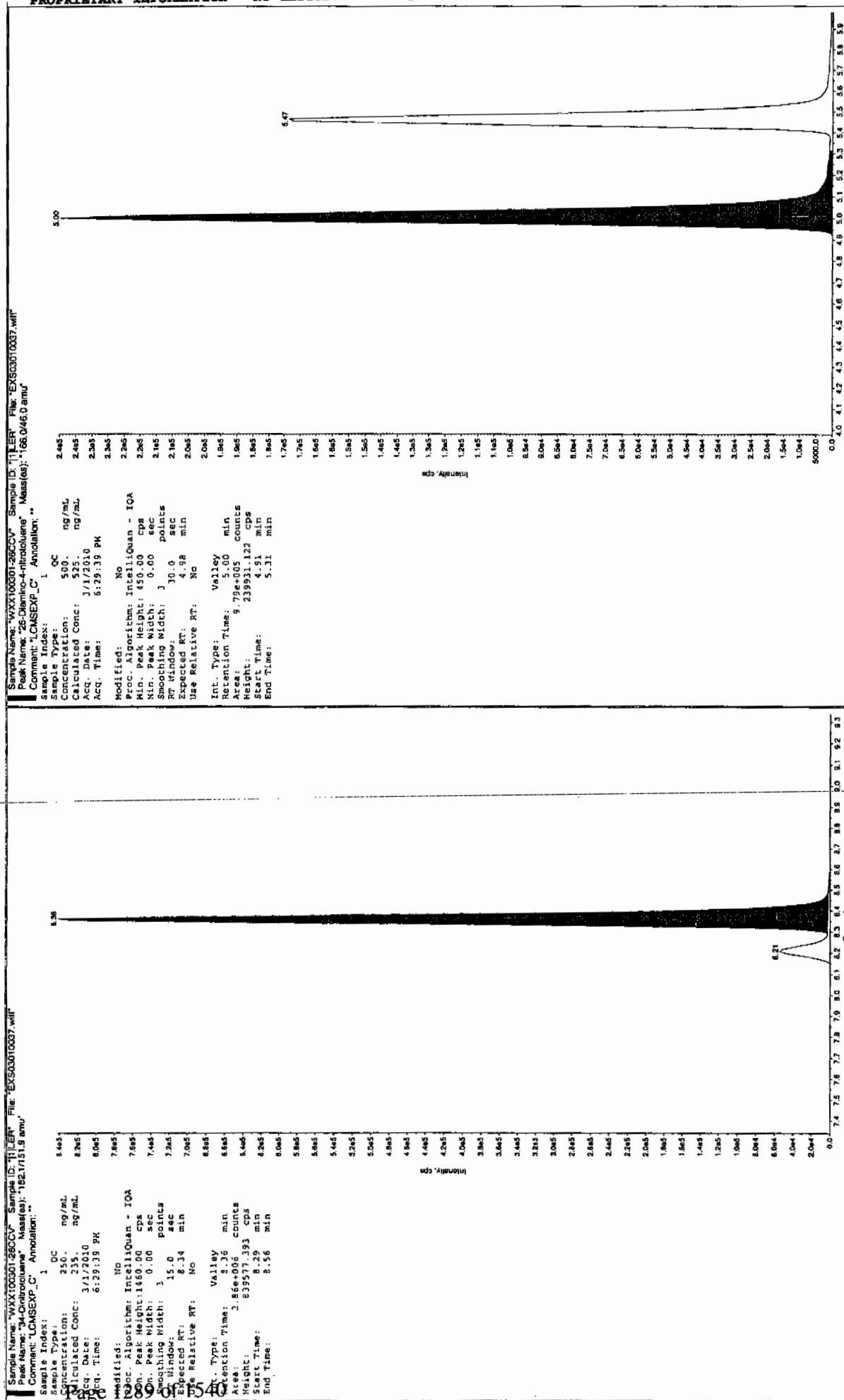
Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 493. ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 6:29:39 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.94 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.98 min
 Area: 5.89e+005 counts
 Height: 144596.042 cps
 Start Time: 6.88 min
 End Time: 7.90 min

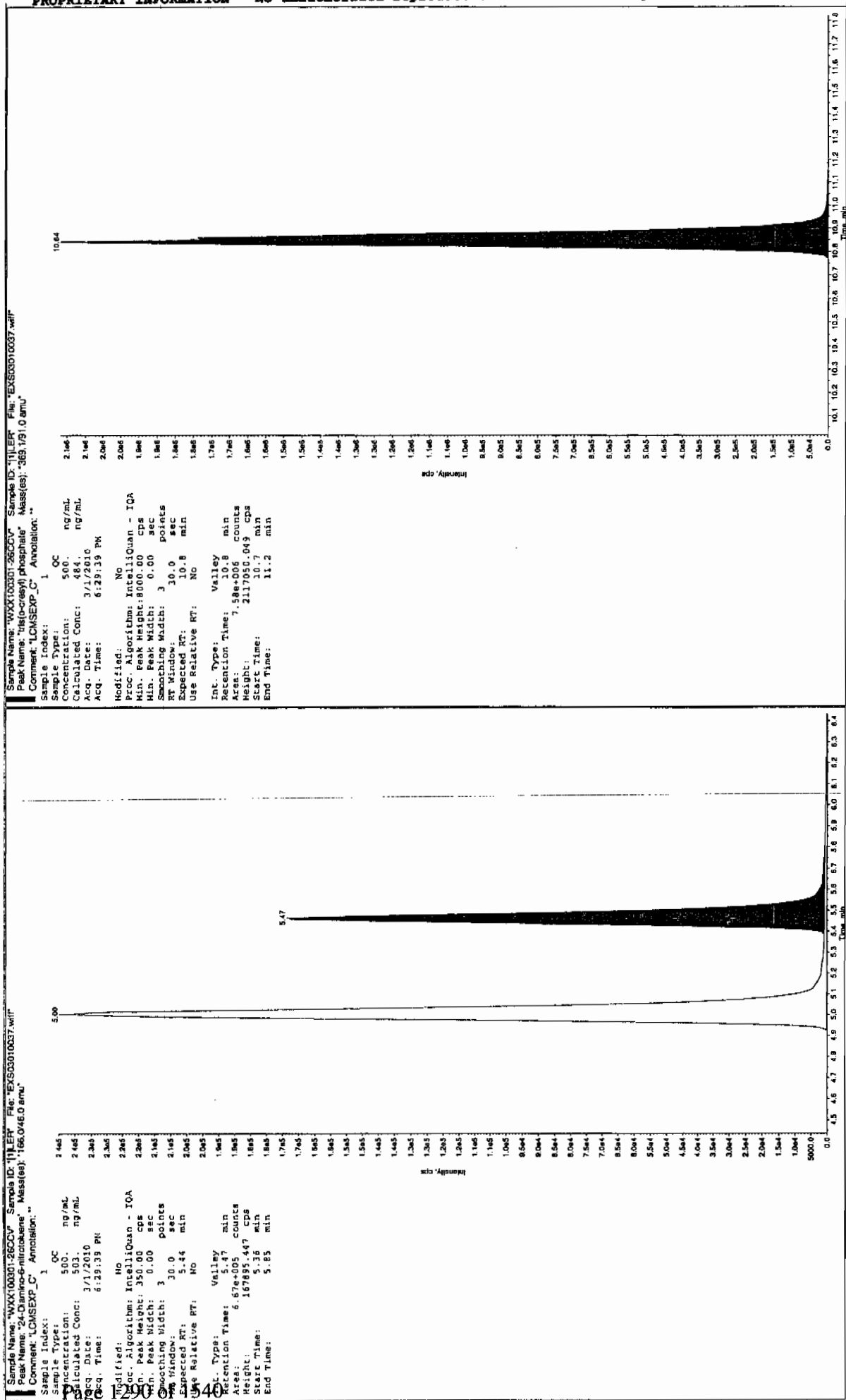


after Run 313/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010039.wiff

Analysis Date: 01-MAR-10 19:01

LCMSMS ID: 1358

Column ID: Sphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	109	109	
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	

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%

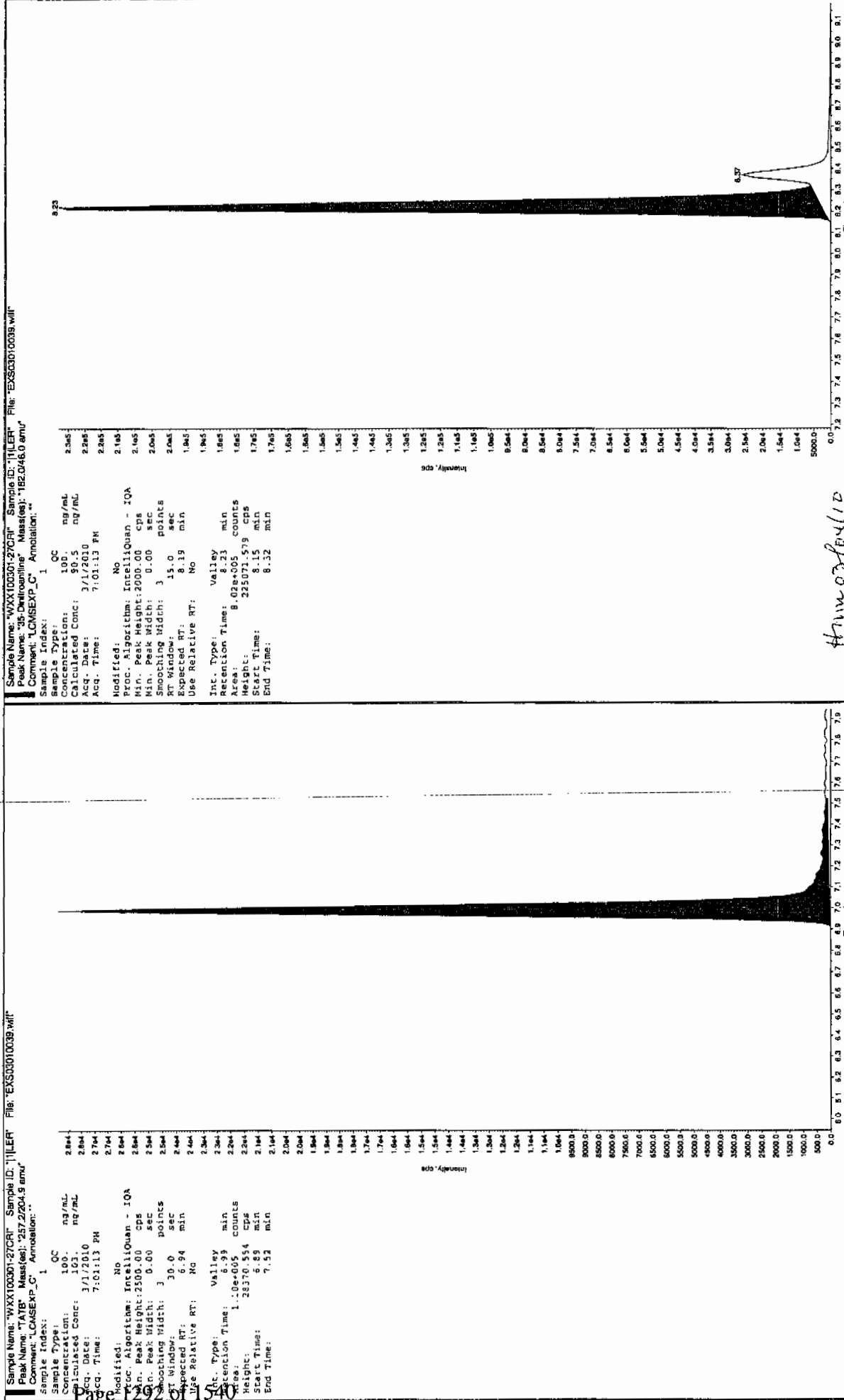
Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

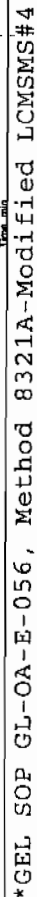
* Value outside of Recovery Limits

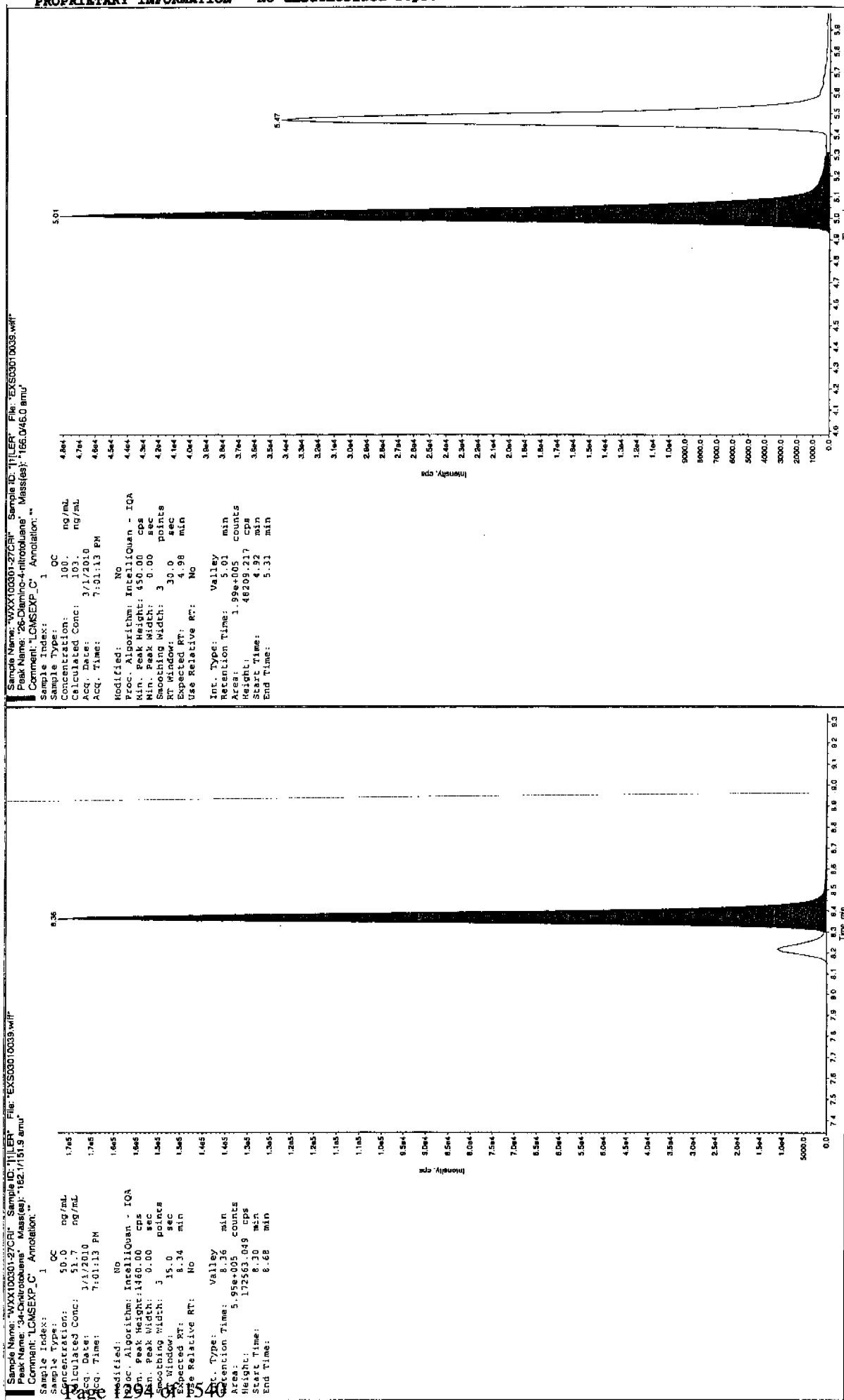
Before Jan 31/10

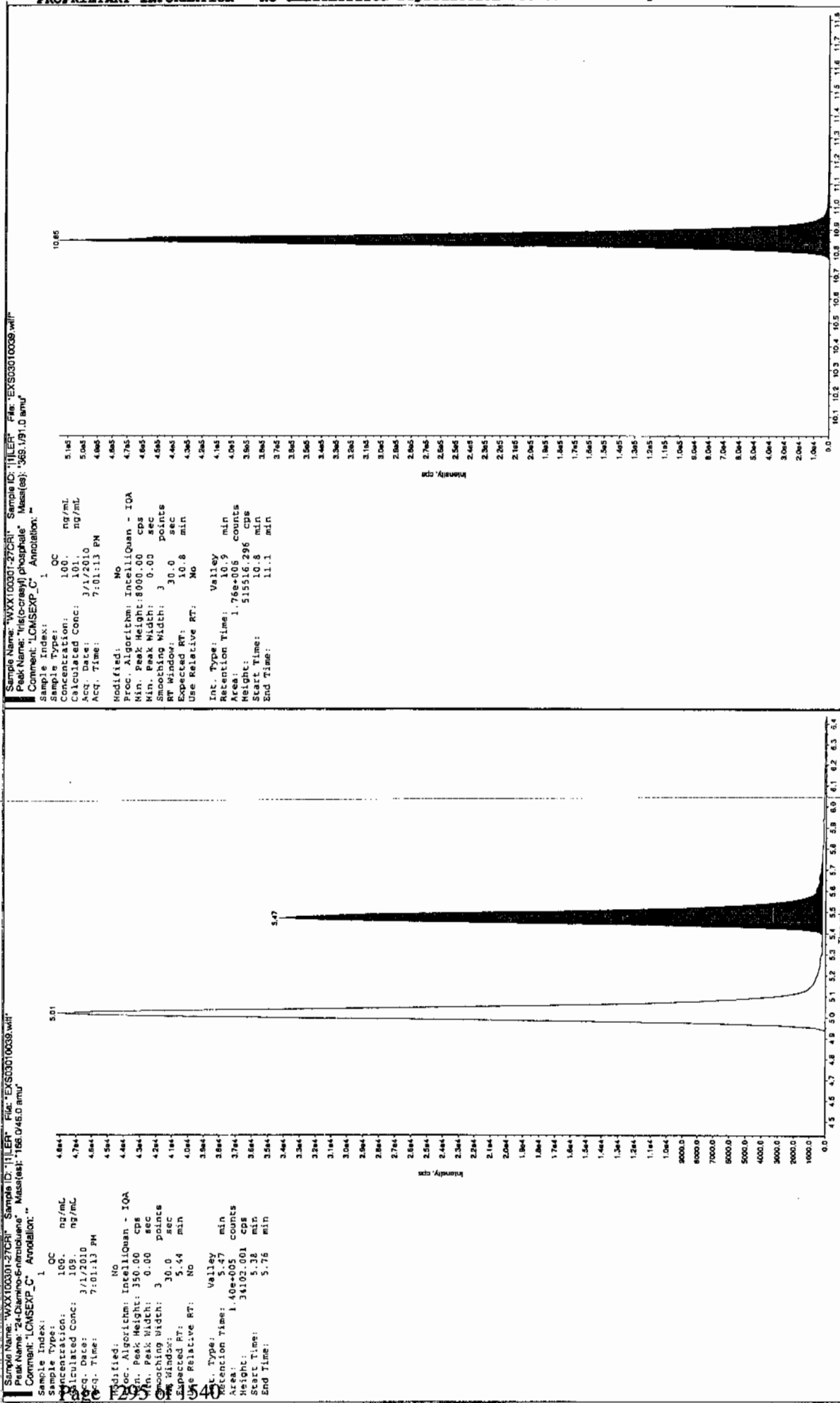
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.



*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): 10-1567

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

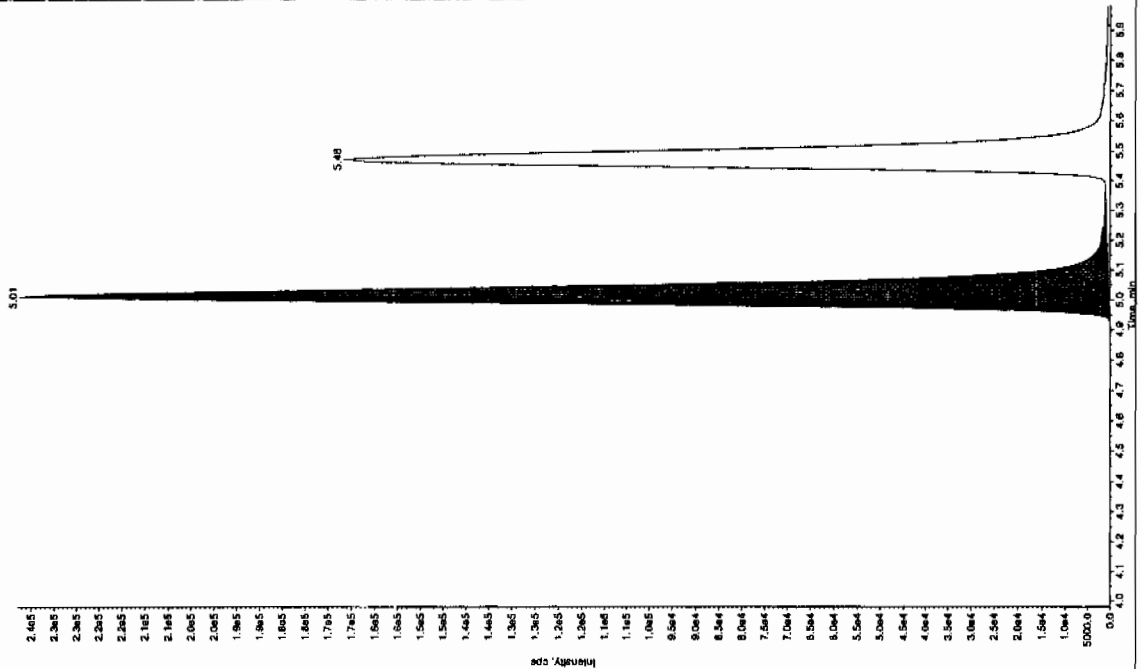
* Value outside of Recovery Limits



Sample Name: "WXX100301-26CCV" Sample ID: "JILR" File: "EXS03010050.wif"
 Peak Name: "26-Dienho-4-nitrofluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 527. ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 9:59:09 PM

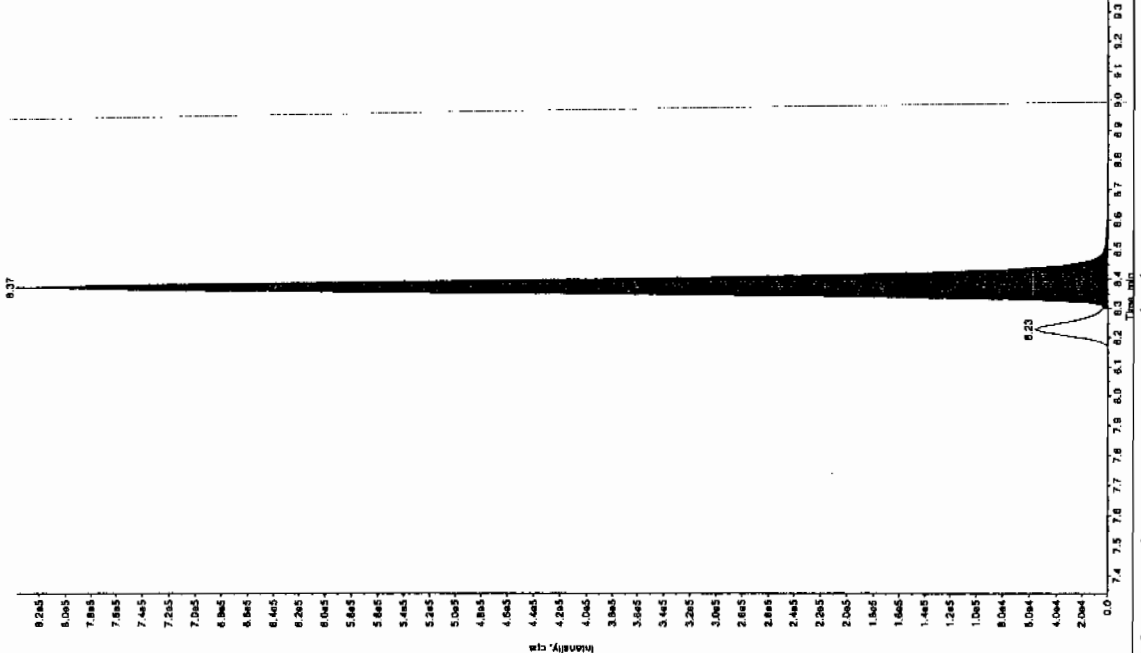
Modified: No
 Proc. Algorithm: Intel:Quan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.98 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.01 min
 Area: 9.82e+005 counts
 Height: 237667.511 cps
 Start Time: 4.92 min
 End Time: 5.12 min

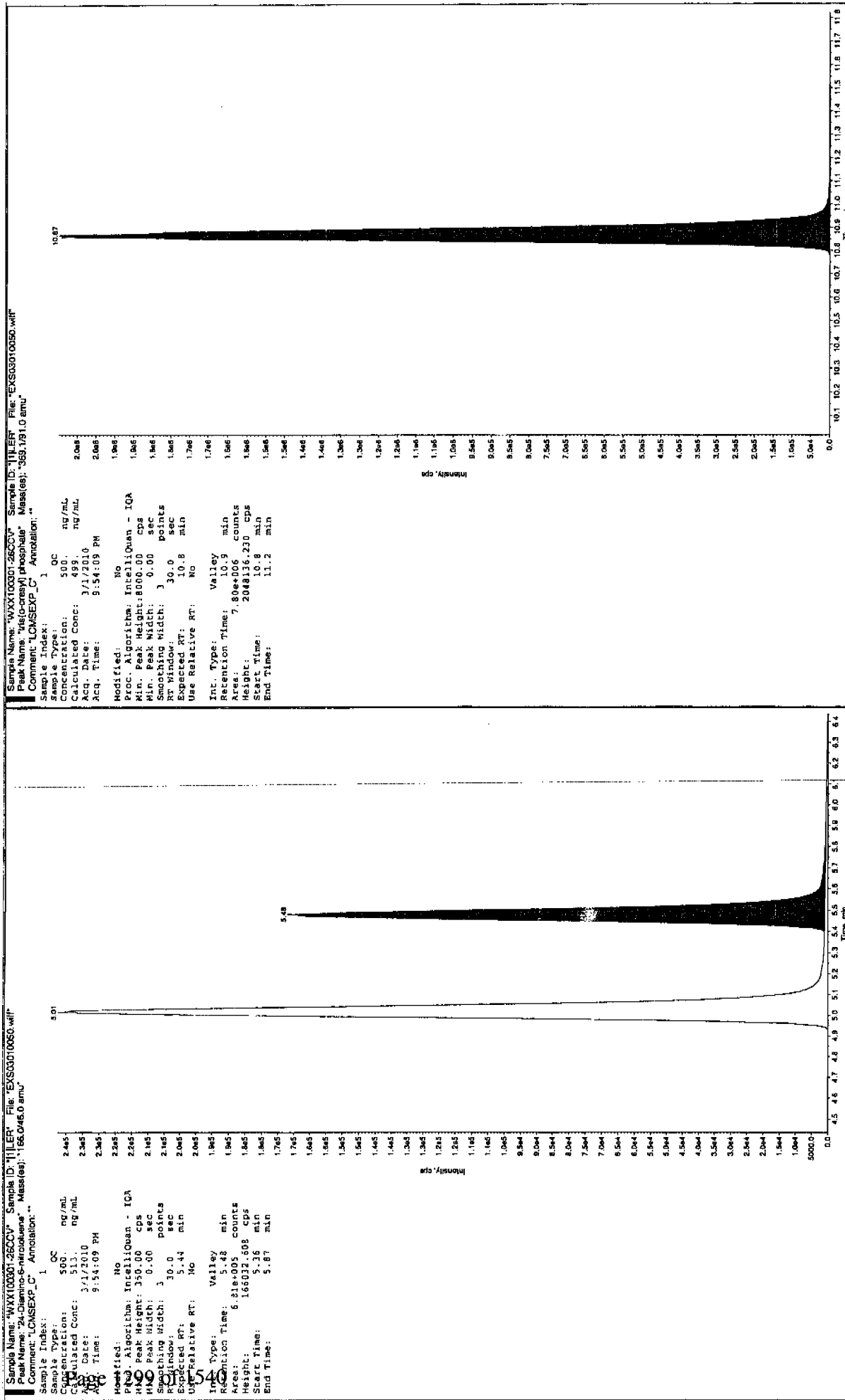


Sample Name: "WXX100301-26CCV" Sample ID: "JILR" File: "EXS03010050.wif"
 Peak Name: "34-Dienho-4-nitrofluene" Mass(es): "162.17151.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 350. ng/mL
 Calculated Conc: 370. ng/mL
 Acq. Date: 3/1/2010
 Acq. Time: 9:59:09 PM

Modified: No
 Proc. Algorithm: Intel:Quan - 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: 2.89e+006 counts
 Height: 83765.588 cps
 Start Time: 8.30 min
 End Time: 8.59 min





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

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:

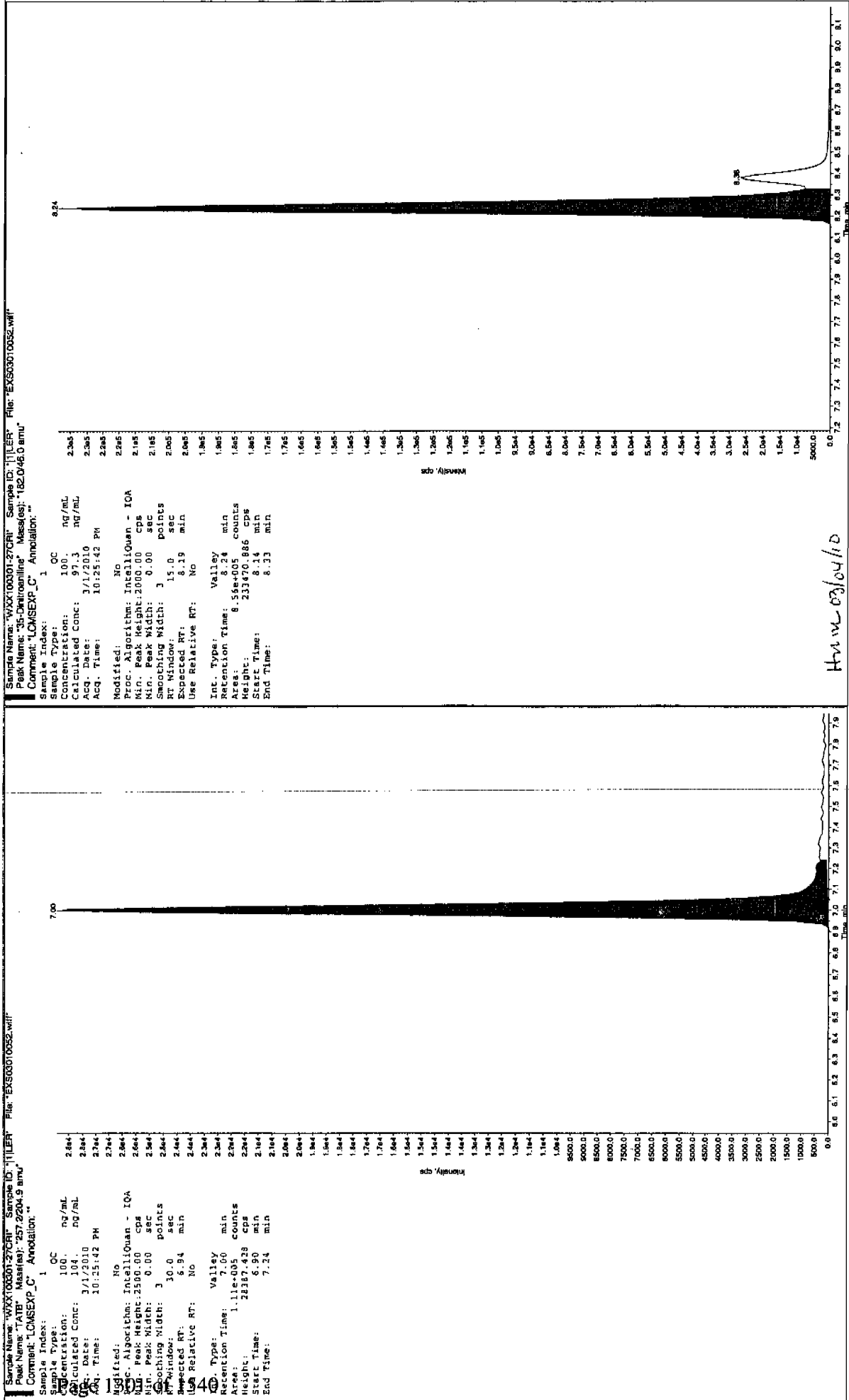
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

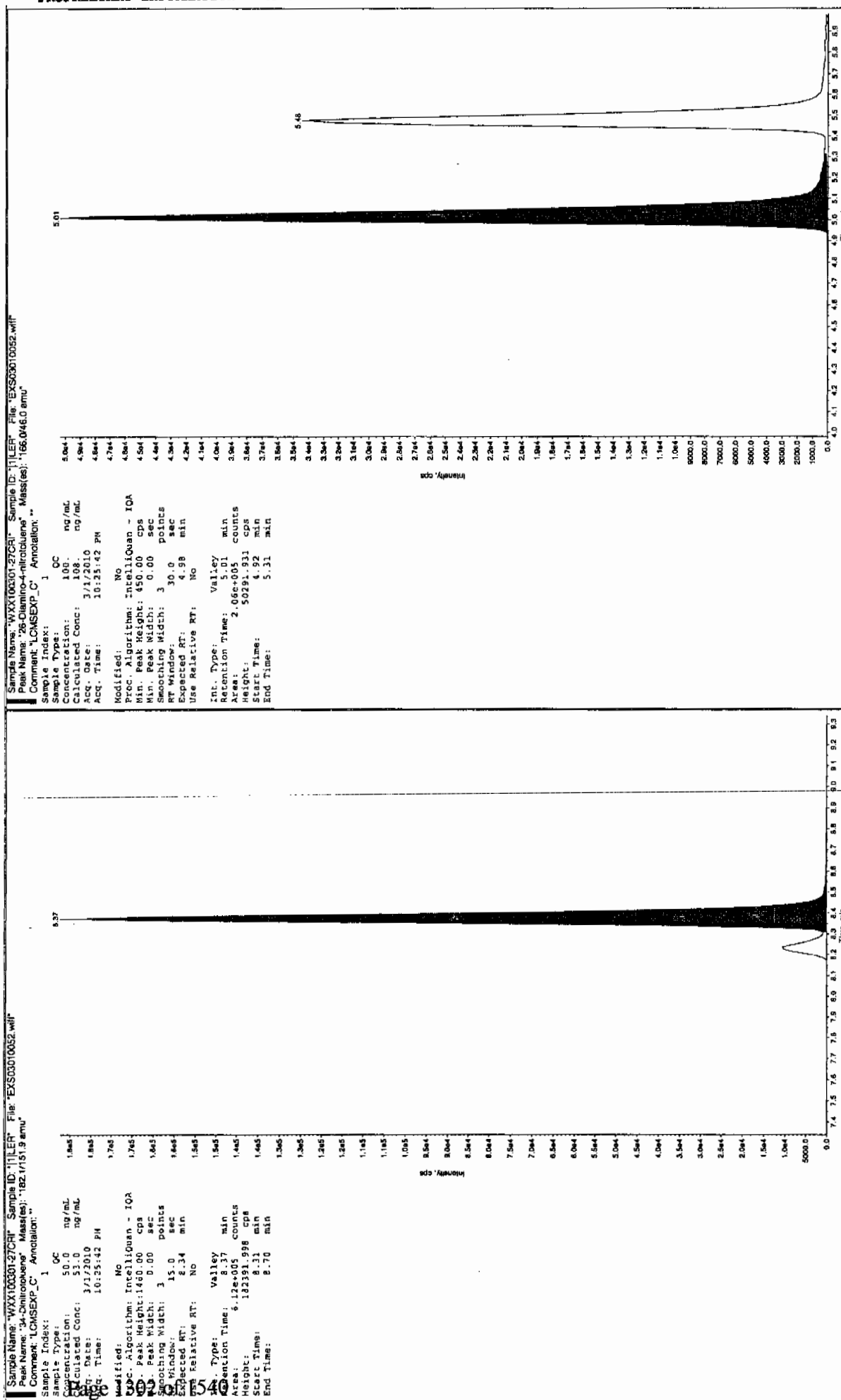
Other Target Analytes 70-130%

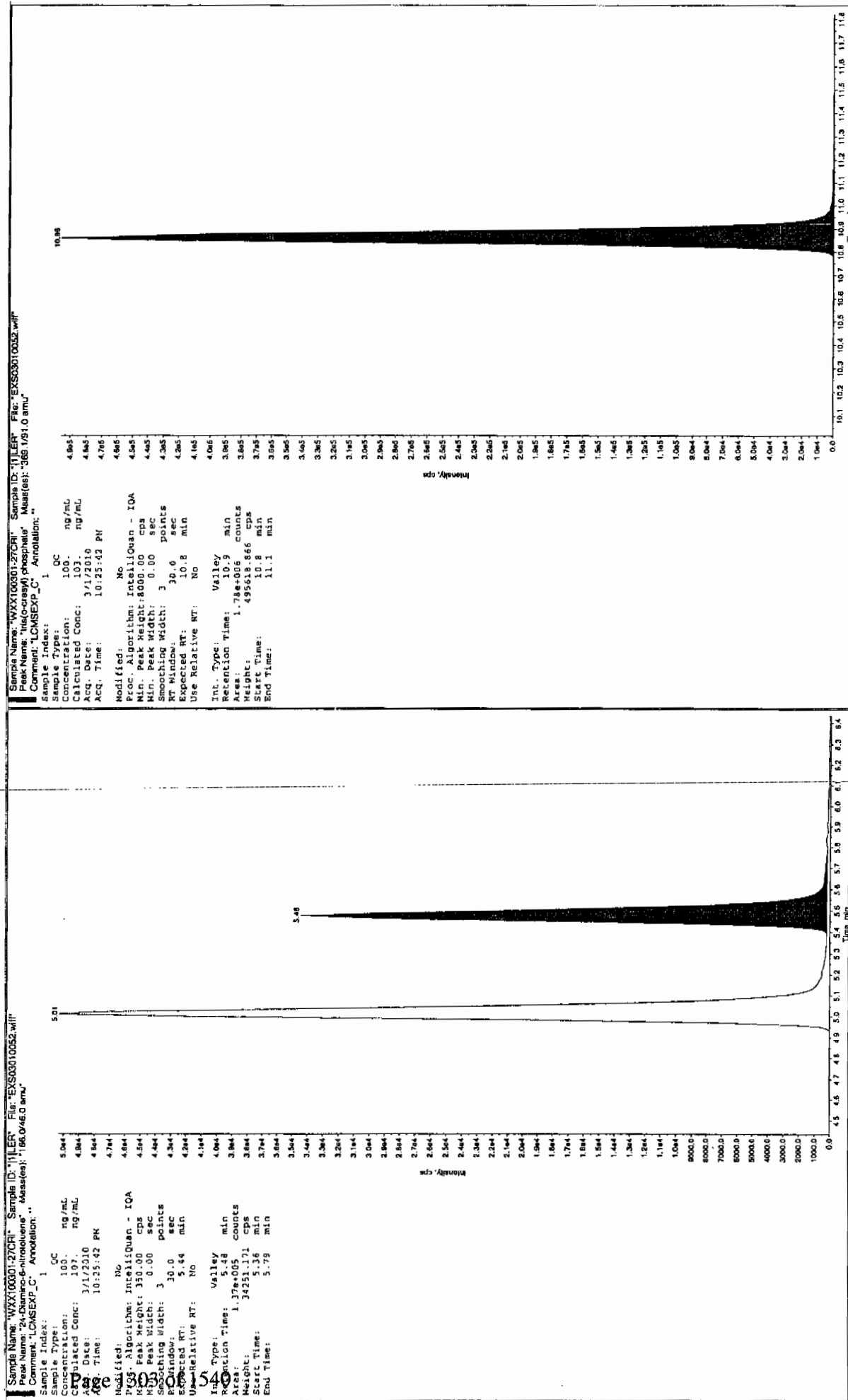
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Jan 31/10







7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

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:

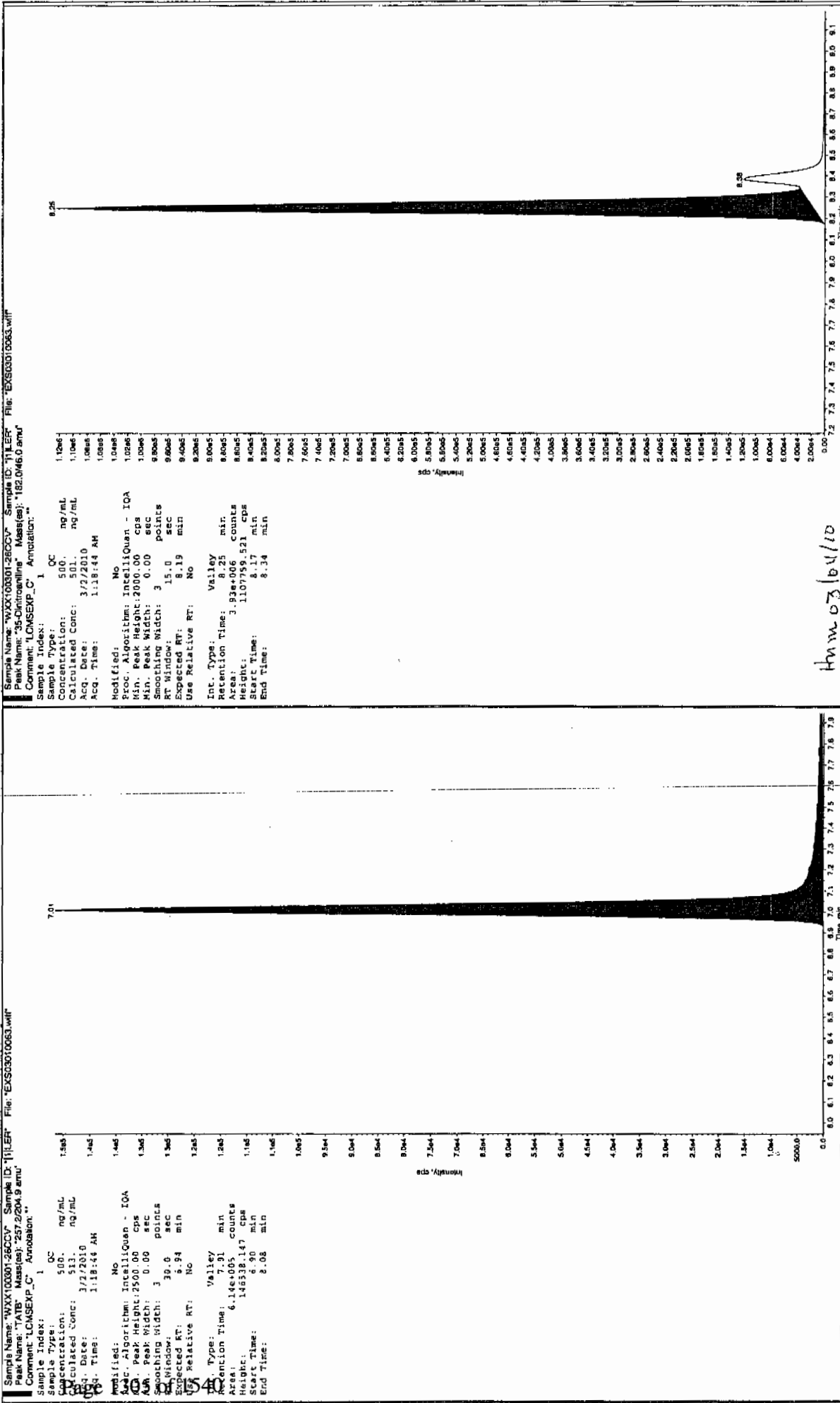
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

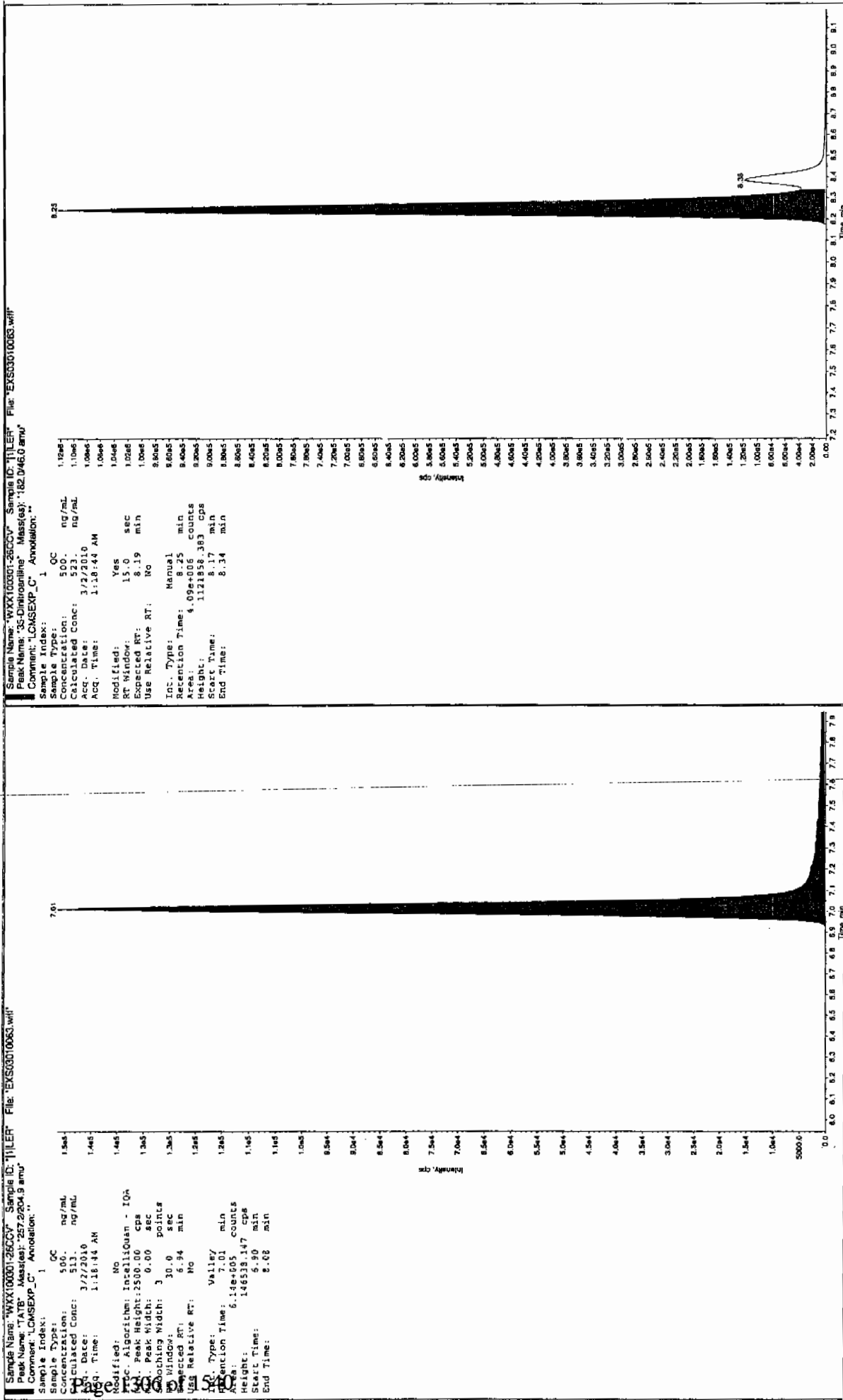
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

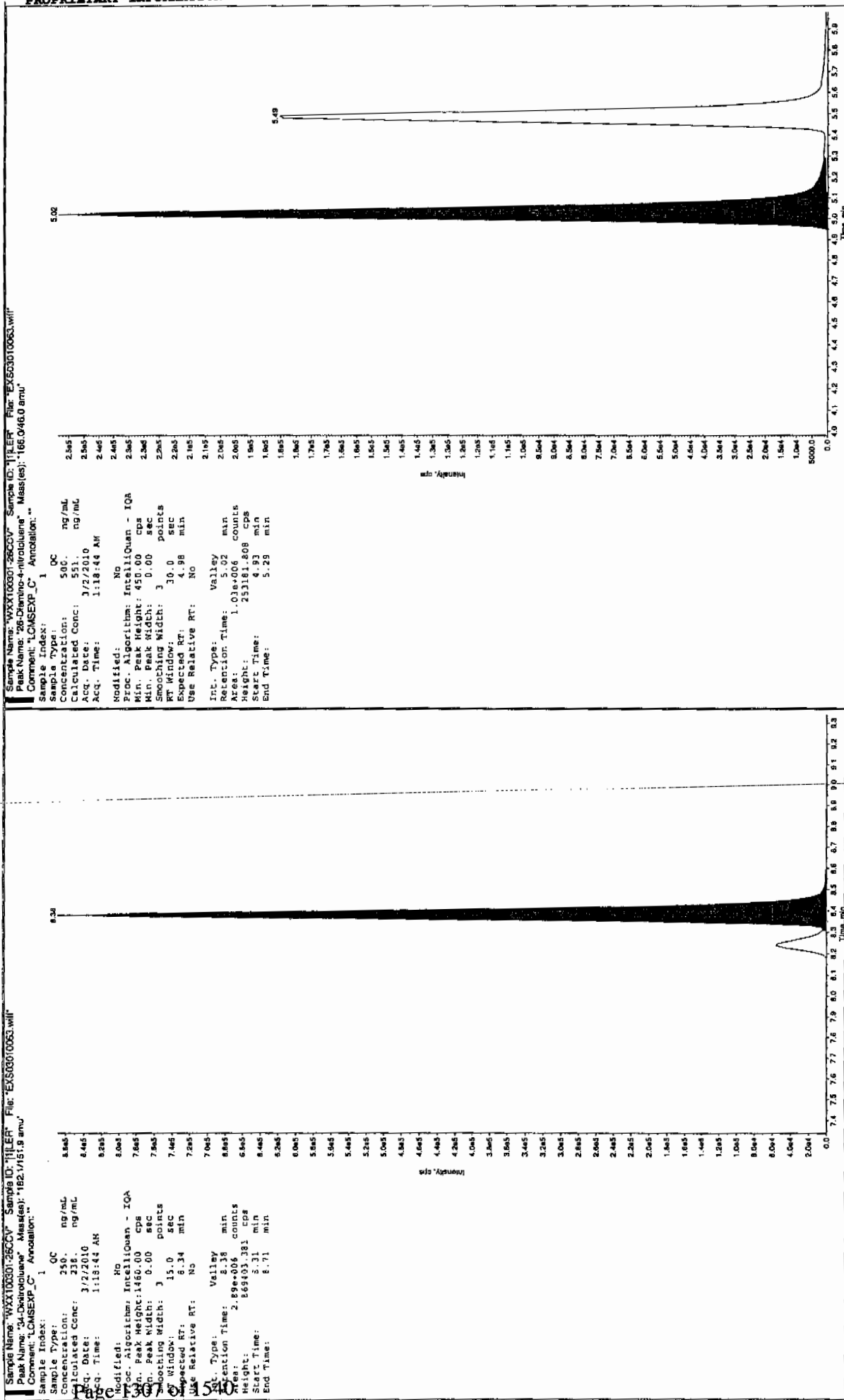
Before Jan 3/3/10

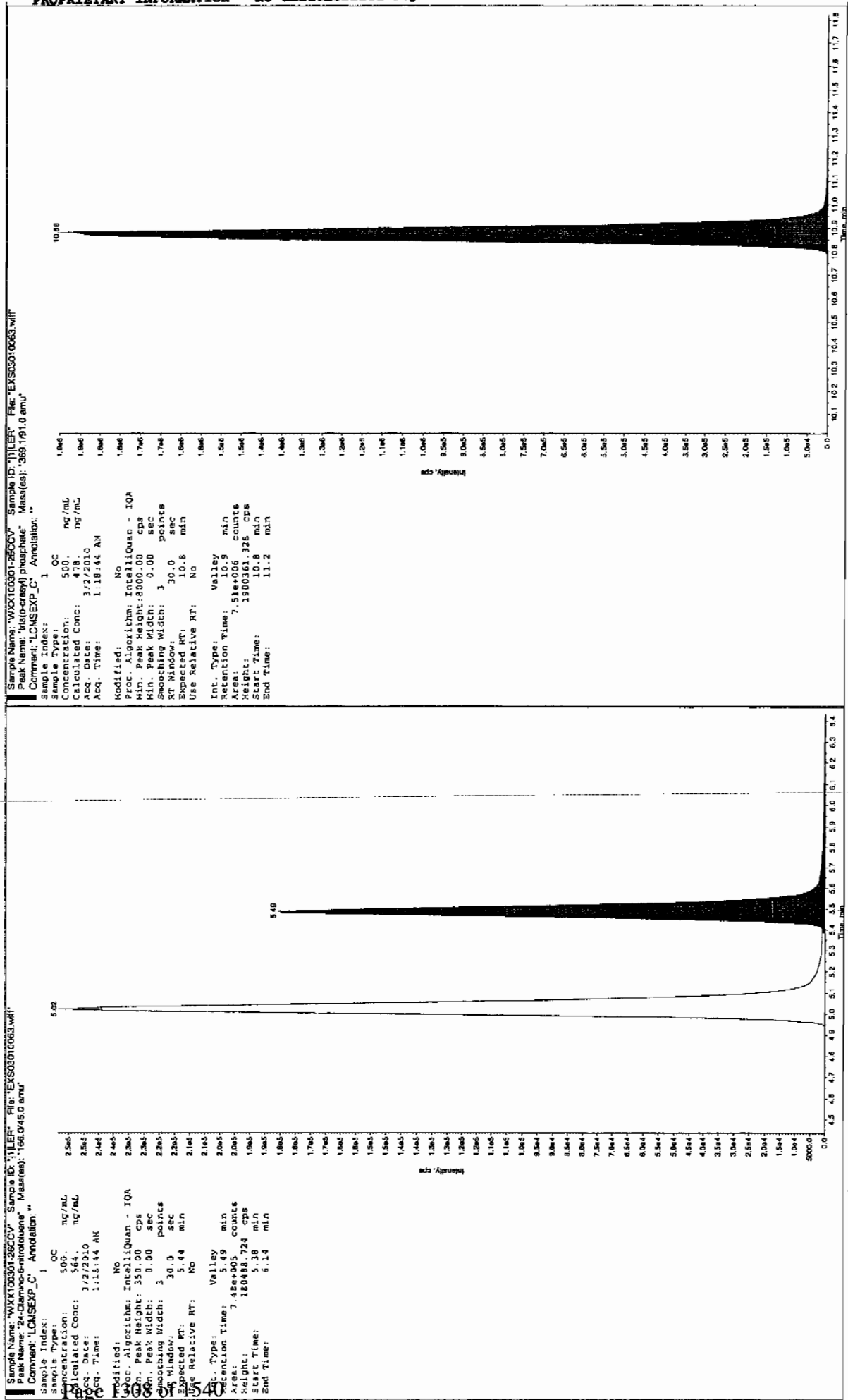


after Jan 3/3/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

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%

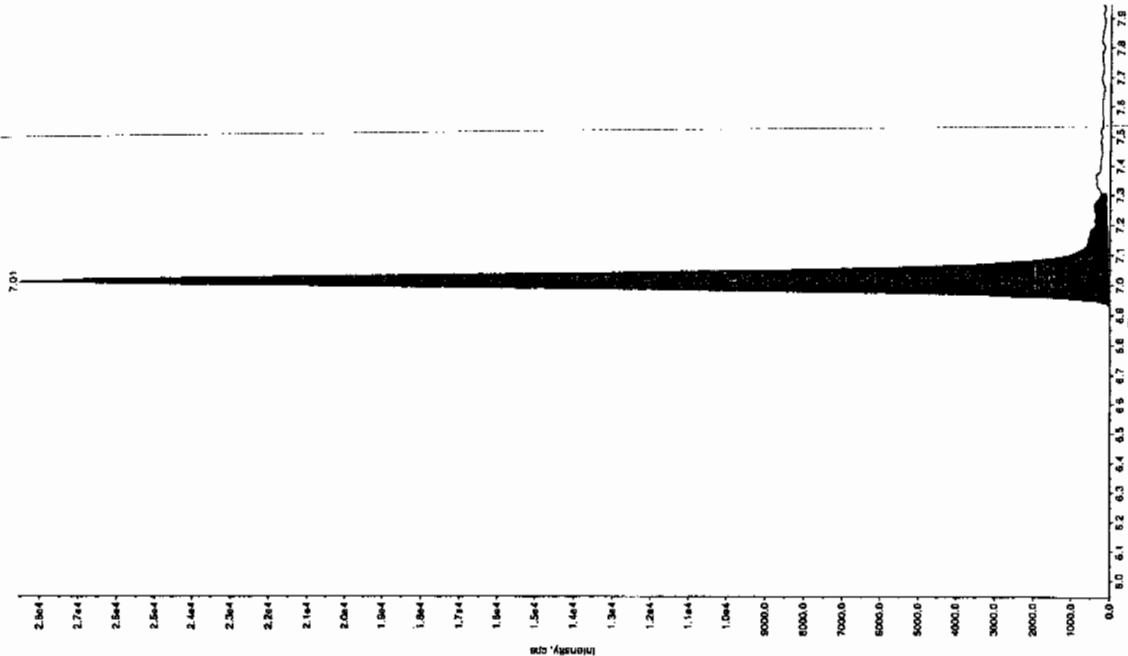
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Jan 31/10

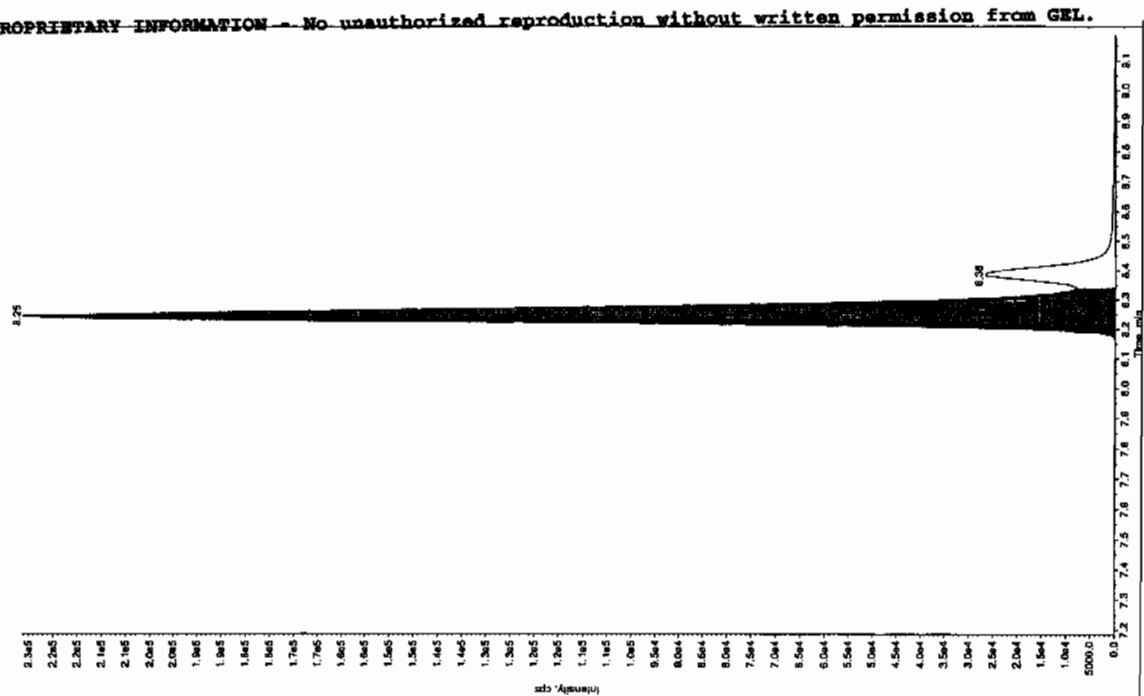
Sample Name: "WXX100301-27CR" Sample ID: "11ER" File: "EXS03010065.wif"
 Peak Name: "TATB" Mass(es): 257.2204.9 amu
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: 100
 Concentration: 100. ng/mL
 Calculated Conc: 95. ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 1:50:18 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - TOA
 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: 1.11e-001 min
 Area: 23546.782 counts
 Height: 5.81 min
 Start Time: 7.31 min
 End Time:

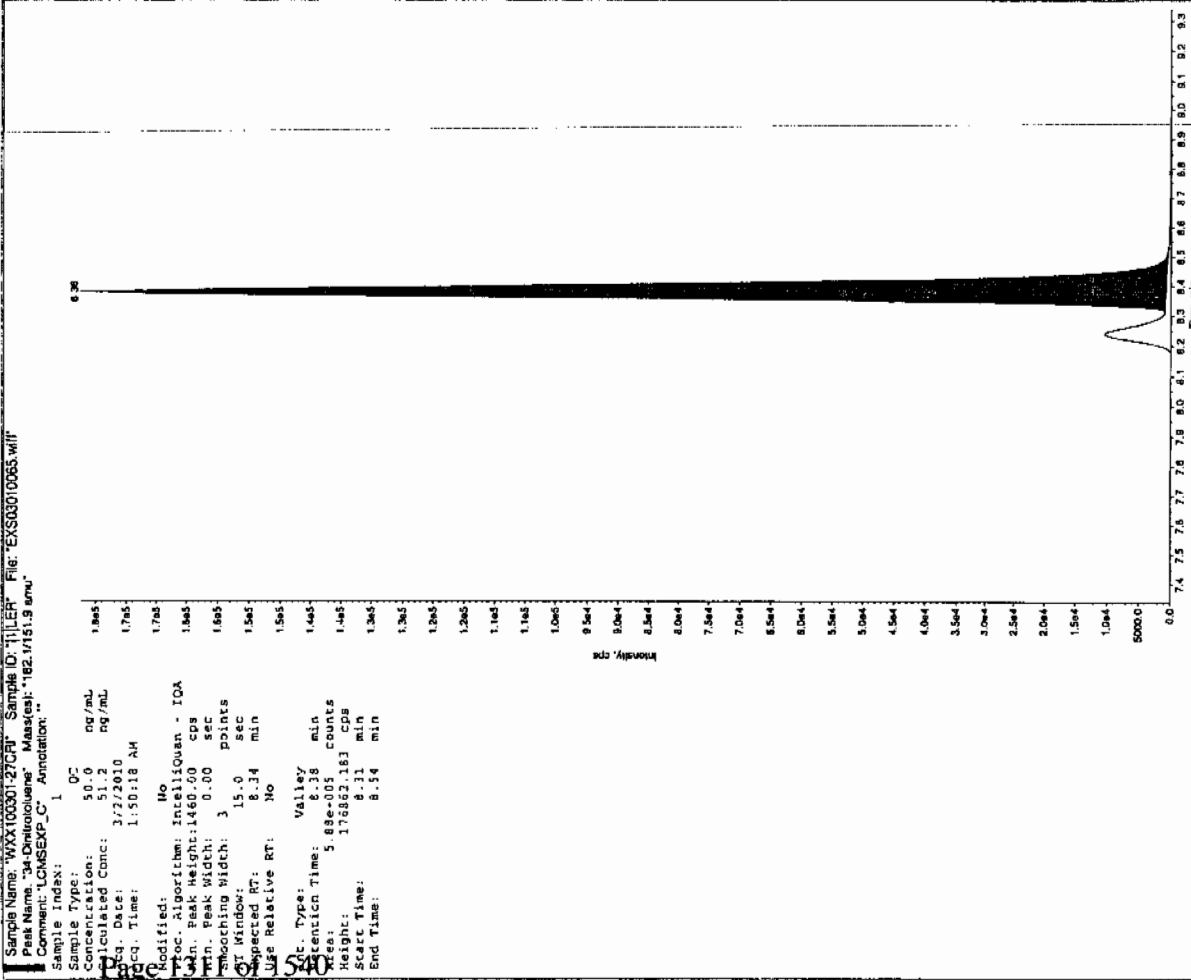
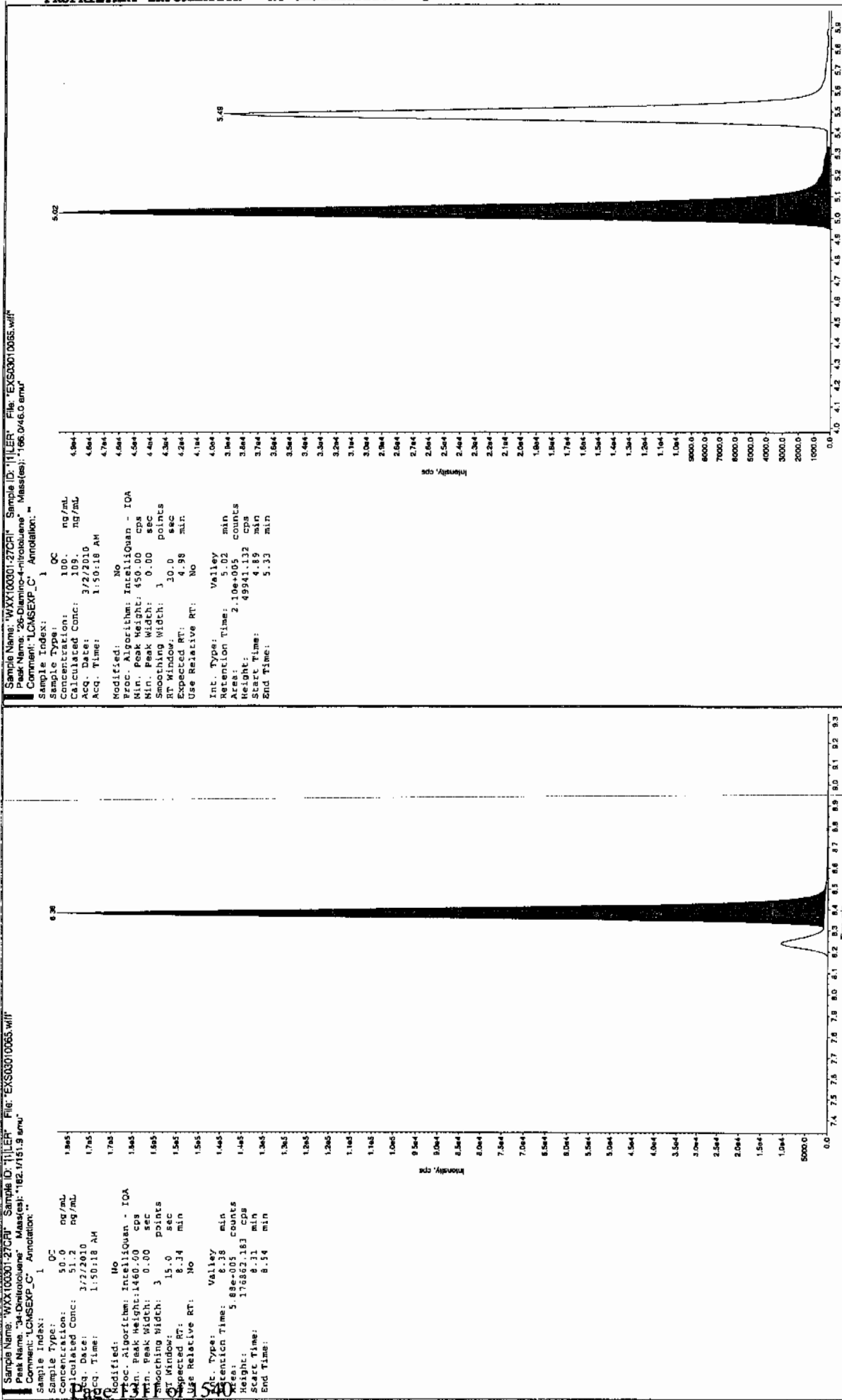


Sample Name: "WXX100301-27CR" Sample ID: "11ER" File: "EXS03010065.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): 182.046.0 amu
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: 100
 Concentration: 100. ng/mL
 Calculated Conc: 95. ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 1:50:18 AM
 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: 8.25 min
 Area: 8.42e+005 counts
 Height: 258284.119 cps
 Start Time: 8.13 min
 End Time: 8.34 min

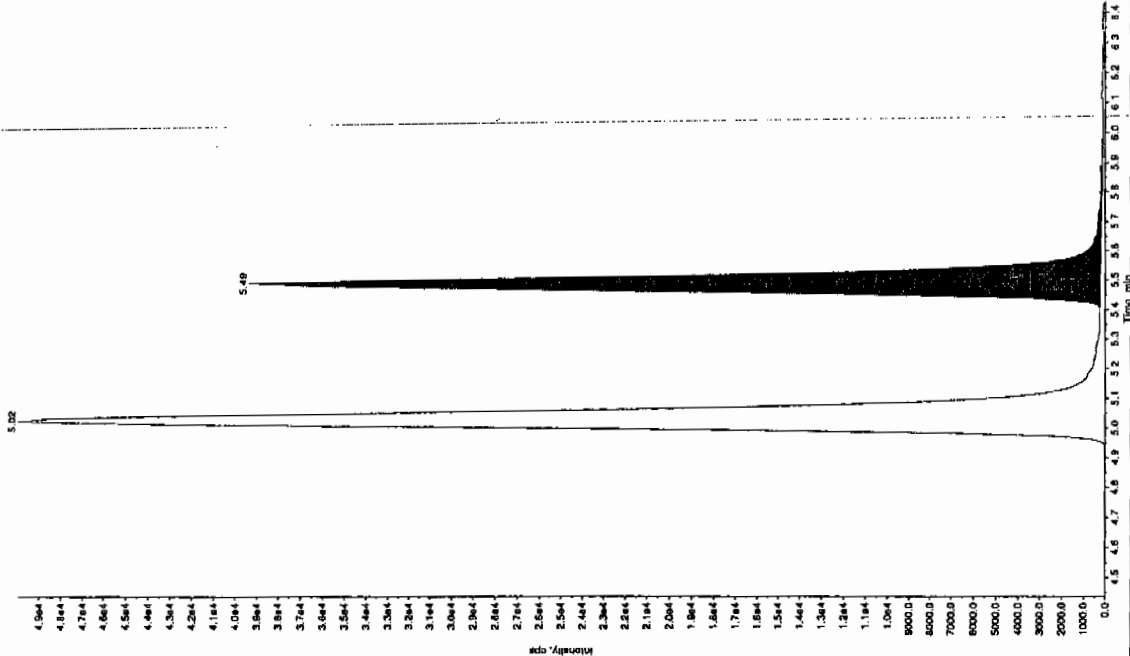


Jan 03/04/10



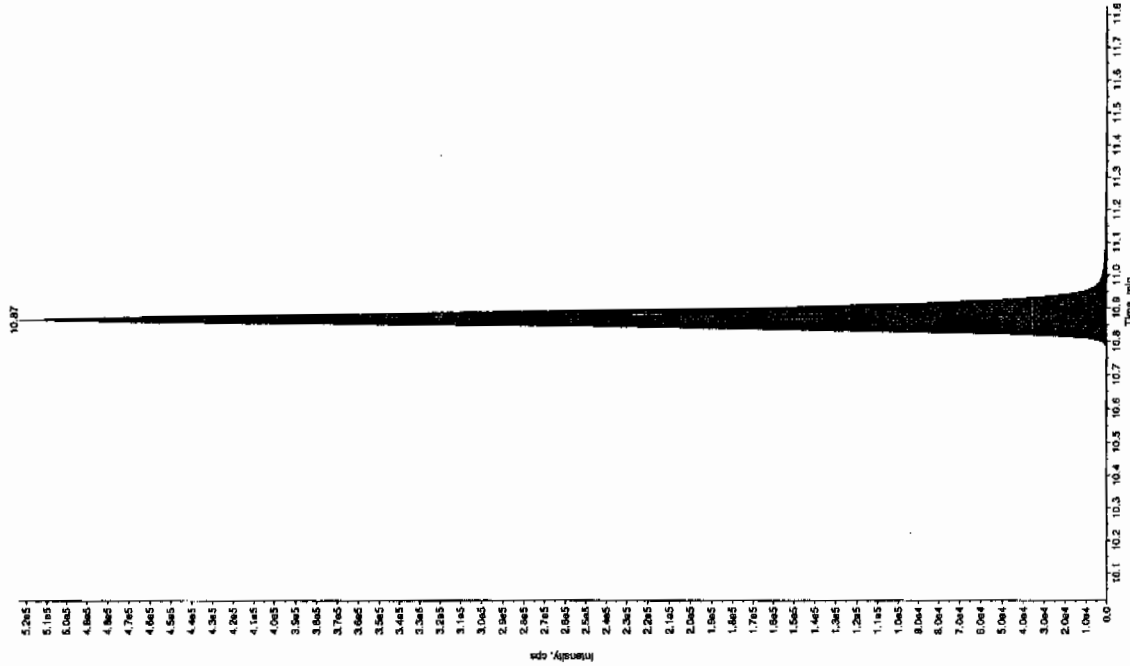
Sample Name: "WXX100301-27CR1" Sample ID: "11LER" File: "EXS03010065.wif"
 Peak Name: "24-Diamino-6-Nitroguano" Mass(es): "186.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 117. ng/mL
 Acq. Date: 3/7/2010
 Acq. Time: 1:50:18 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: 5.49 min
 Area: 1.51e+005 counts
 Height: 39117.947 cps
 Start Time: 5.41 min
 End Time: 5.59 min



Sample Name: "WXX100301-27CR1" Sample ID: "11LER" File: "EXS03010065.wif"
 Peak Name: "7-(p-cresyl) phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 102. ng/mL
 Acq. Date: 3/7/2010
 Acq. Time: 1:50:18 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: 1.77e+006 counts
 Height: 521160.889 cps
 Start Time: 10.7 min
 End Time: 11.2 min



7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

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:

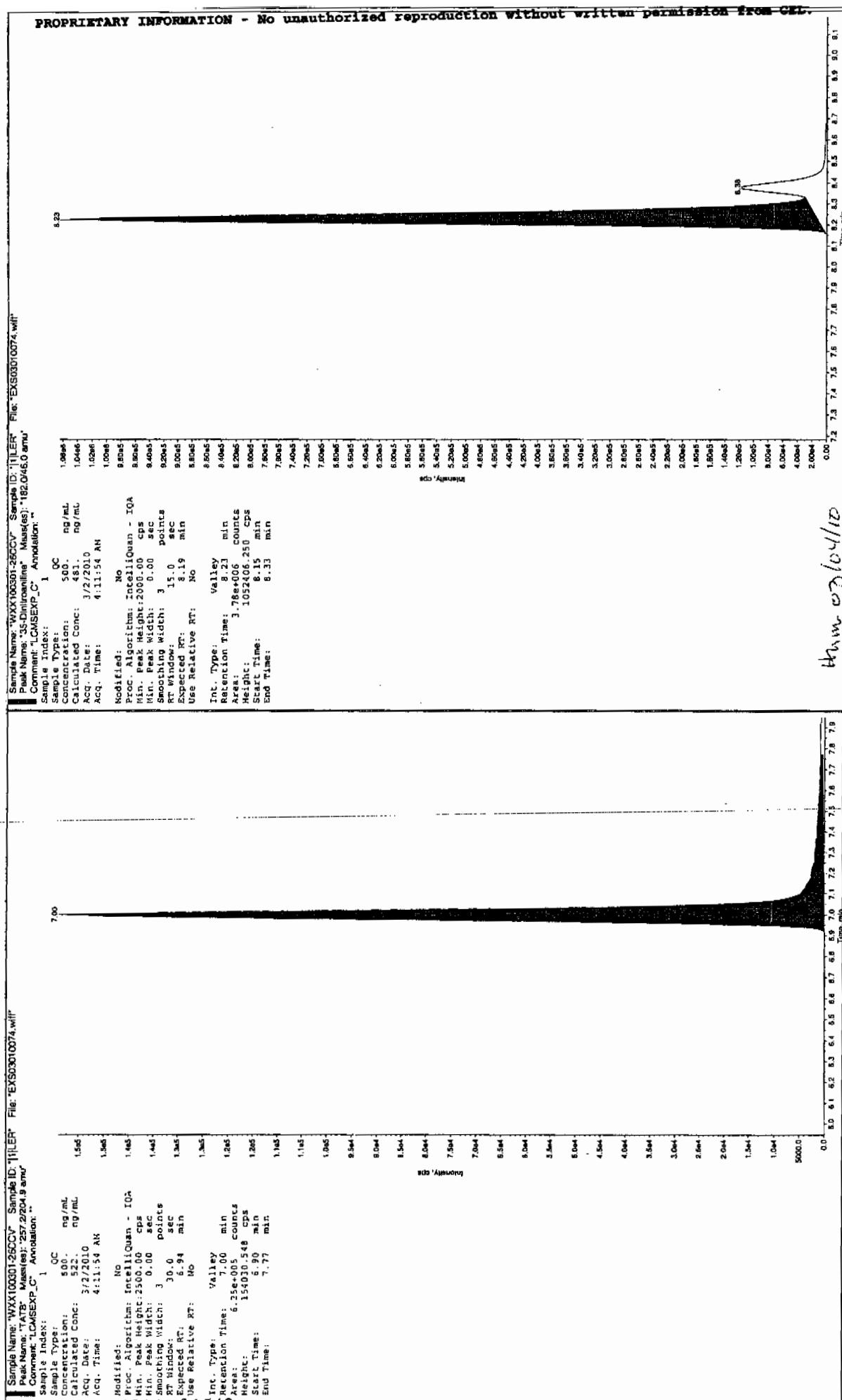
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

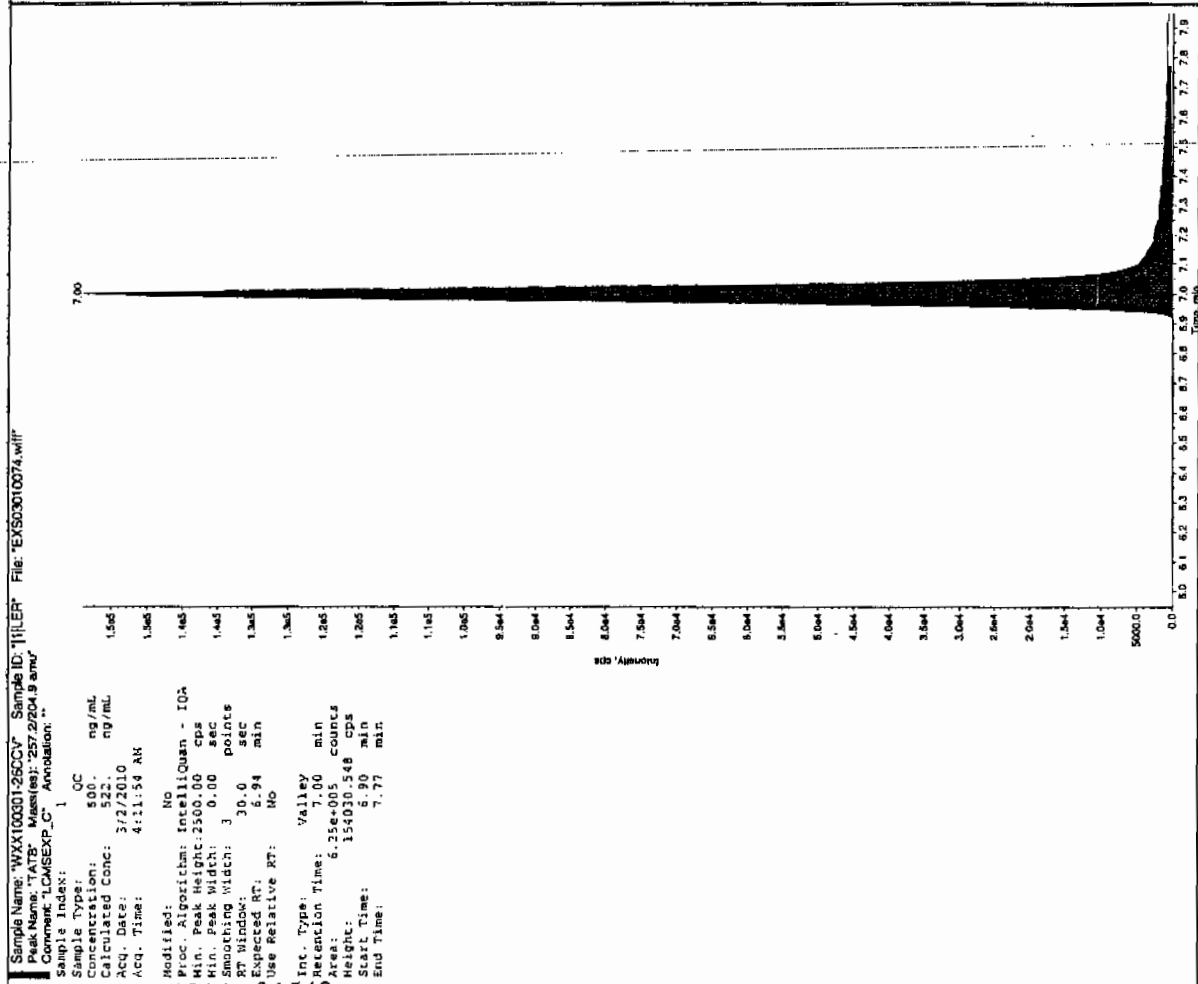
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 31/10



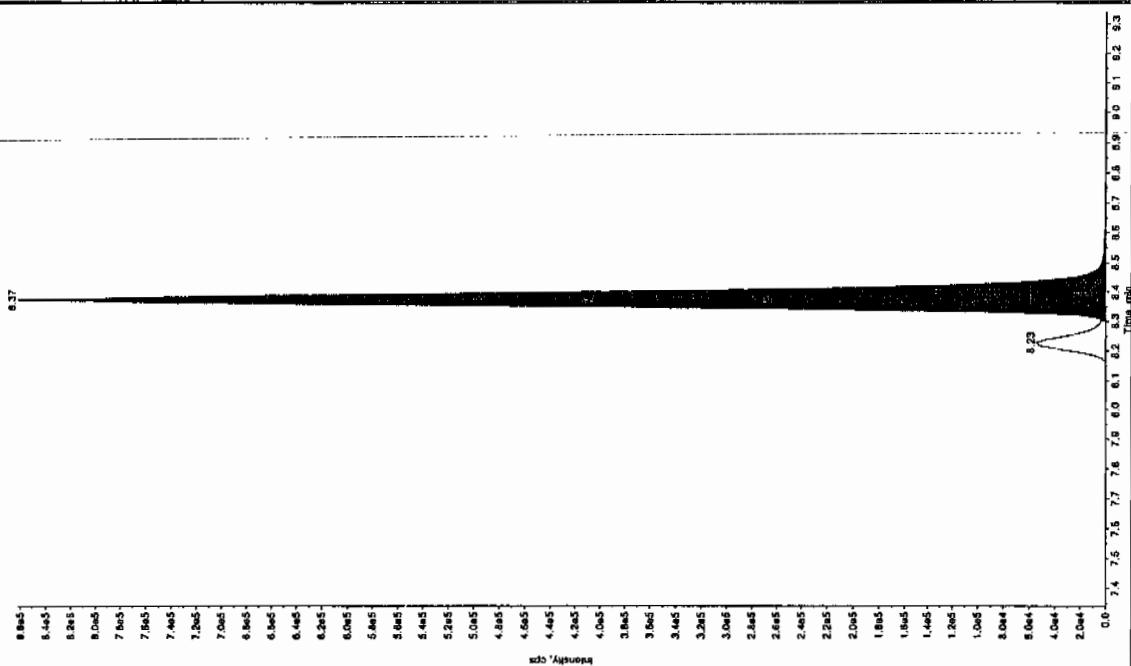
Hum 03/04/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

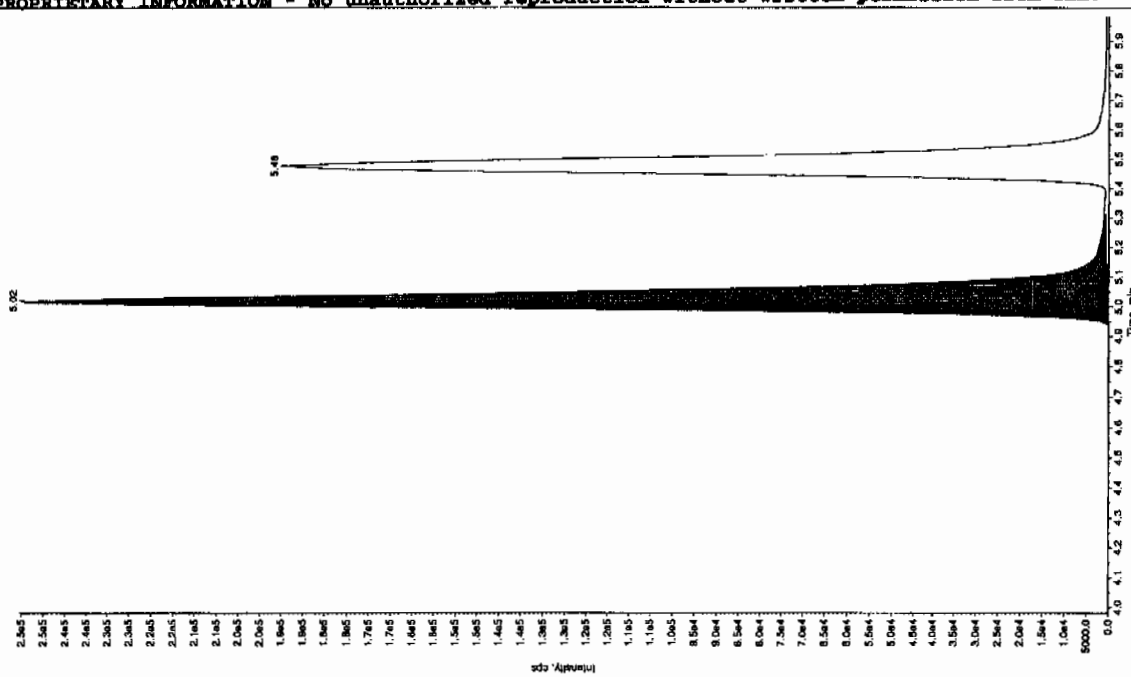
Sample Name: "WXX100301-26C0V" Sample ID: "111ER" File: "EX0303010074.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/181.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

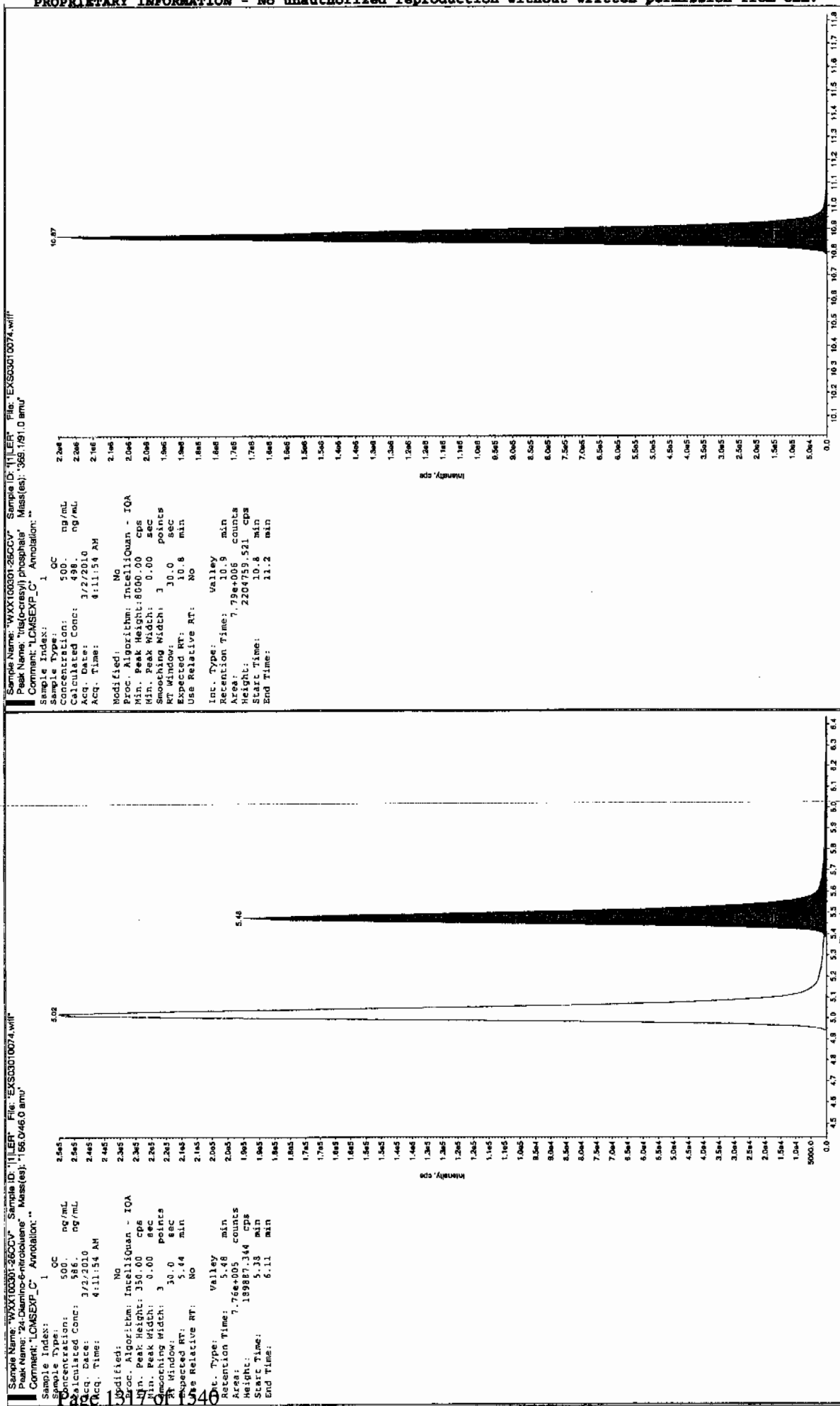
Sample Index: 1
 Sample Type: QC
 Concentration: 250. ng/mL
 Calculated Conc: 213. ng/mL
 Acq. Date: 3/27/2010
 Acq. Time: 4:11:54 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.34 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 9.37 min
 Area: 1.96e+006 counts
 Height: 862213.384 cps
 Start Time: 8.20 min
 End Time: 8.53 min



Sample Name: "WXX100301-26C0V" Sample ID: "111ER" File: "EX0303010074.wif"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "165.0/166.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 558. ng/mL
 Acq. Date: 3/27/2010
 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





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

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
TATB	100	107	107	
tris(o-cresyl) phosphate	100	102	102	
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	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

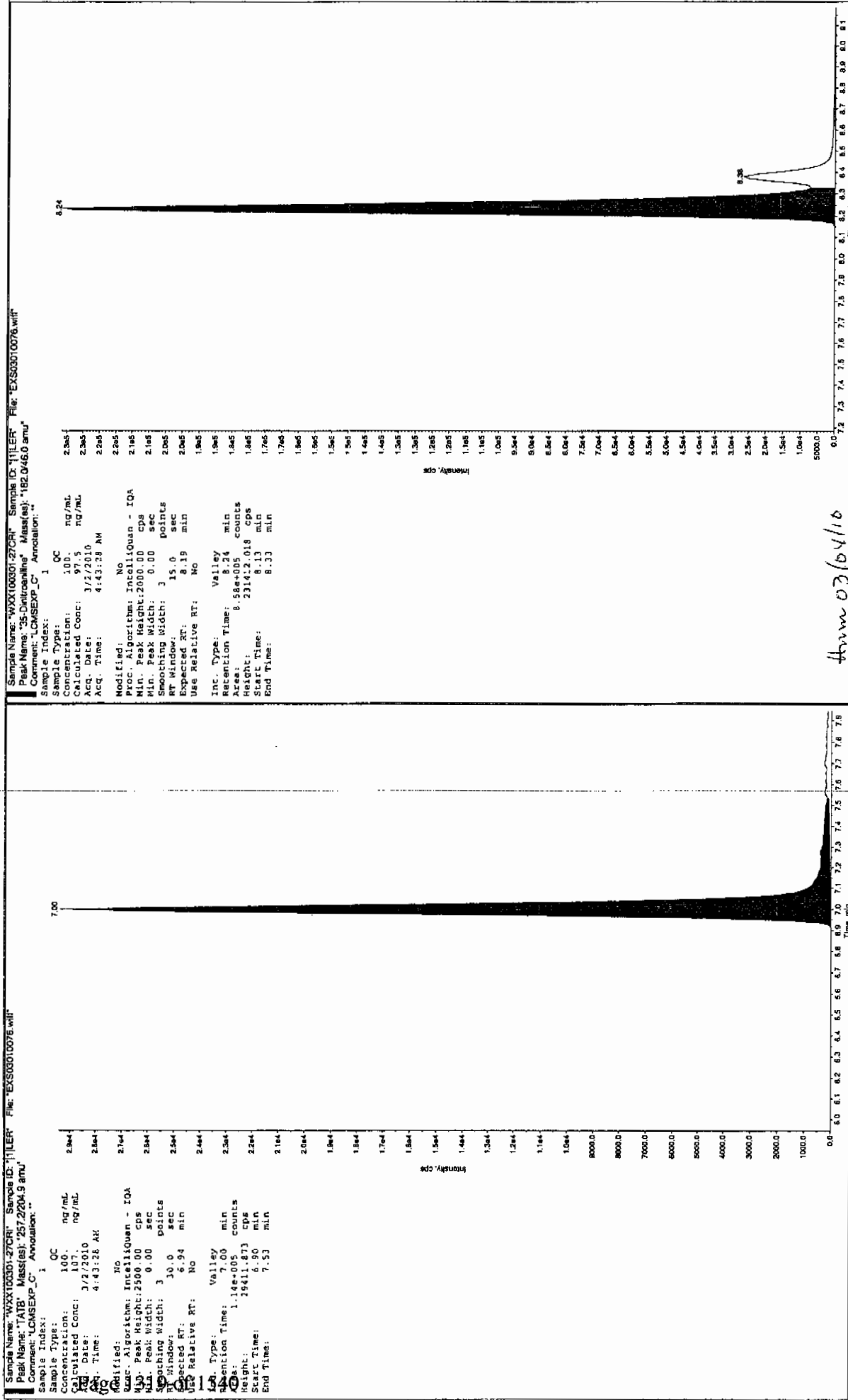
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

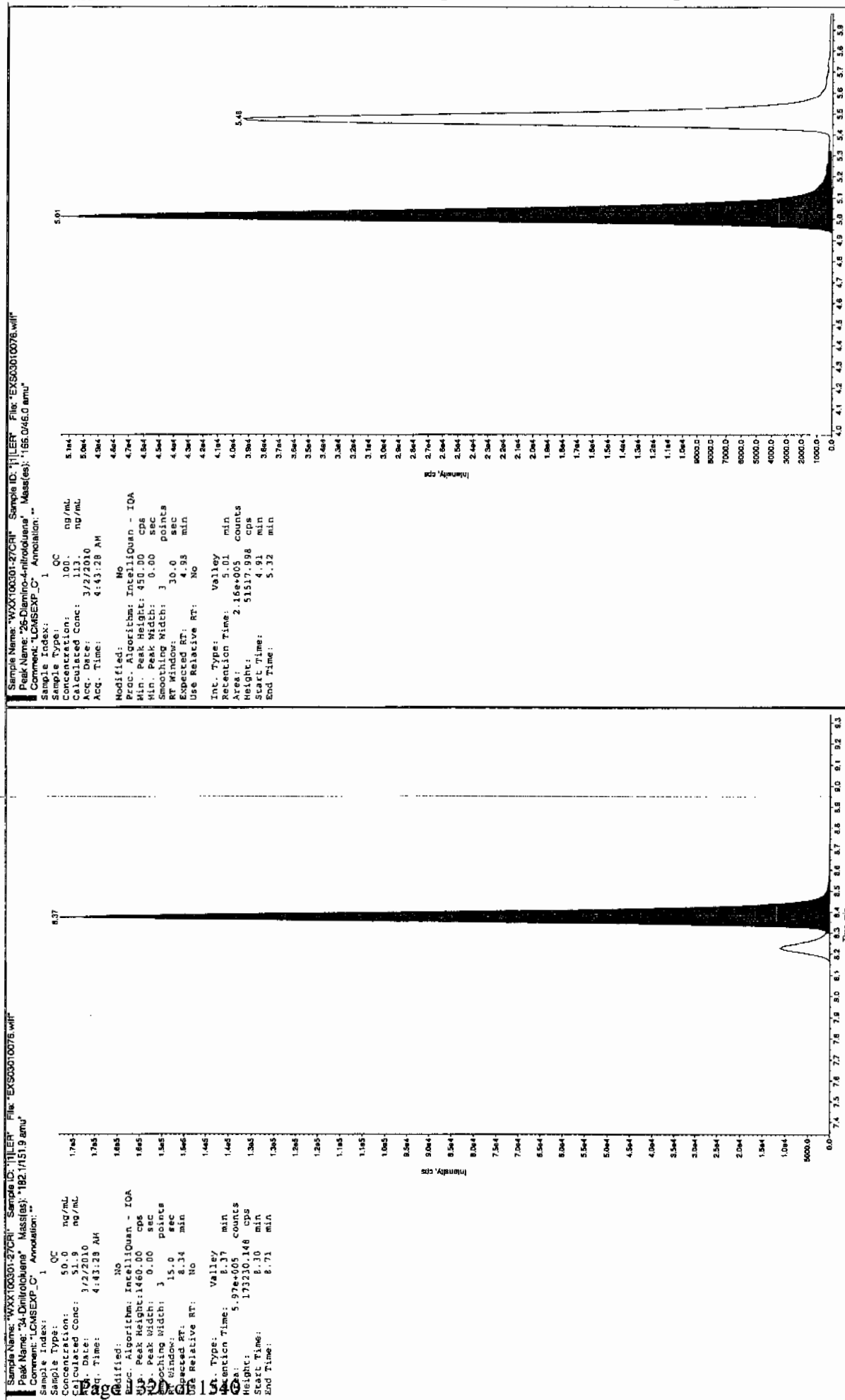
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

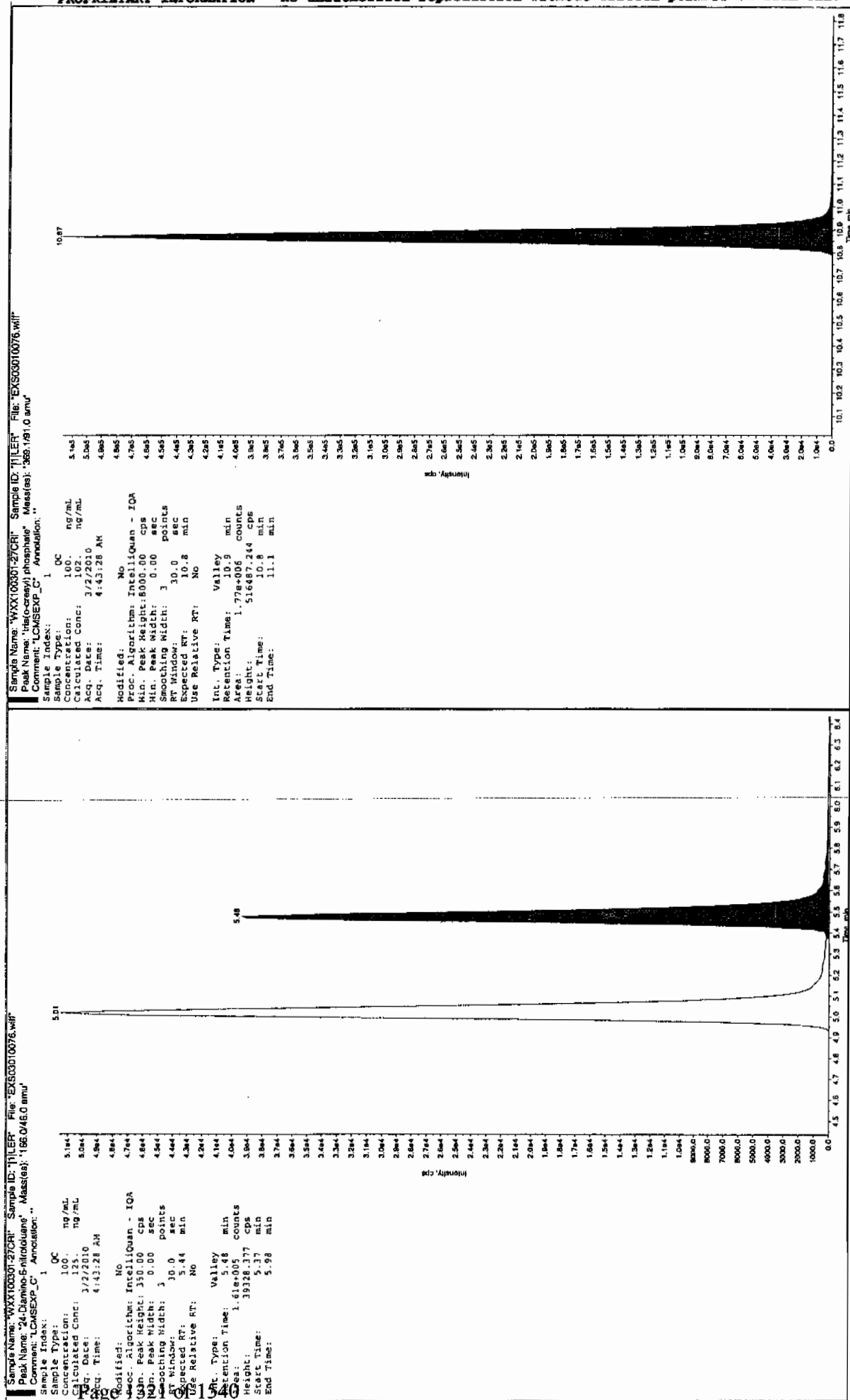
SEA 3/3/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*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): 10-1567

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%

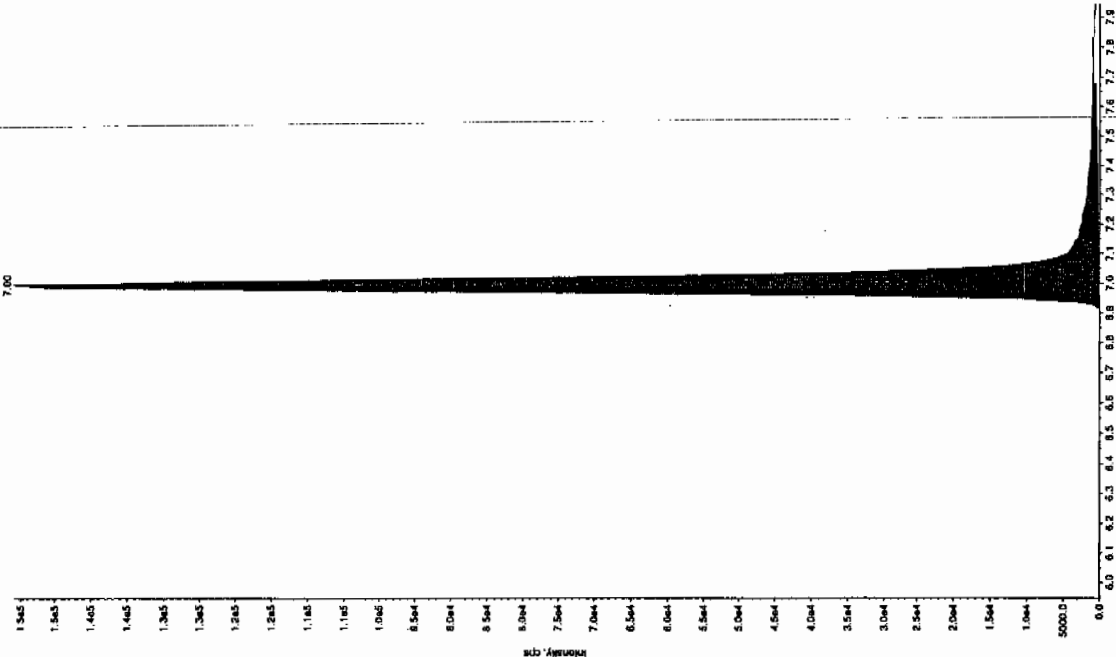
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 31/2/10

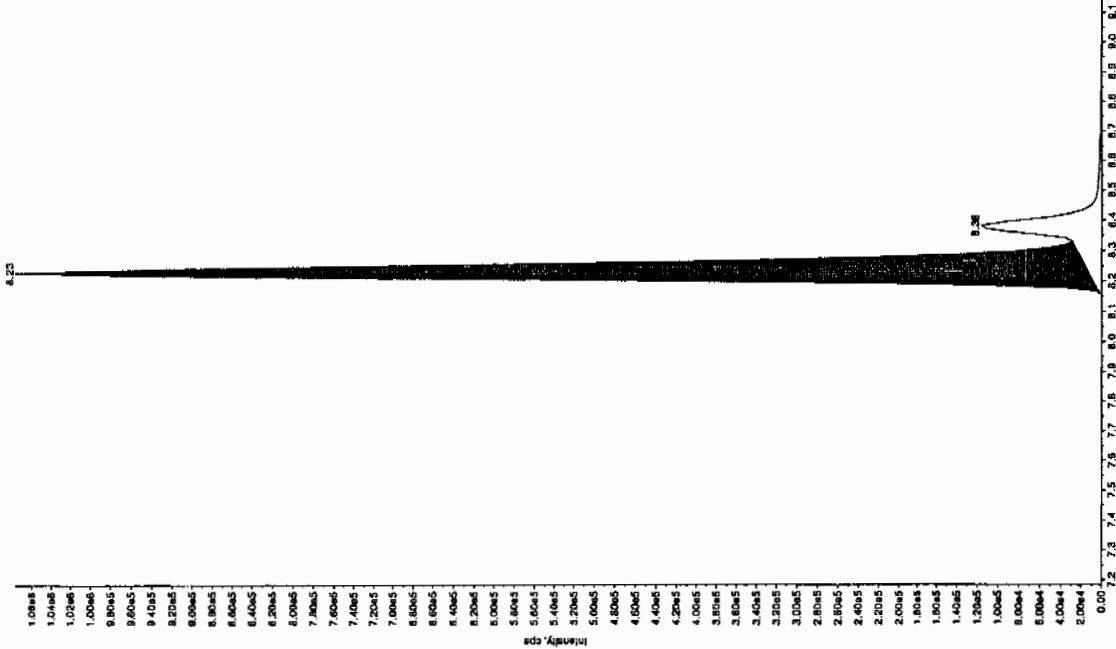
Sample Name: 'WXX100301-260CV' Sample ID: 'JILER' File: 'EXS03010087.wif'
Peak Name: 'TATB' Mass(es): '257.2/204.9 amu'
Comment: 'LCMSEXP_C' Annotation: ''

Sample Index: 1
Sample Type: QC
Concentration: 500 ng/mL
Calculated Conc: 3/2/2010
Acq. Date: 7:36:30 AM
Acq. Time: 7:36:30 AM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2500.00 cps
Min. Peak Width: 0.00 sec
Smoother Width: 3 points
RT Window: 30.0 sec
Expected RT: 6.94 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 6.03 min
Area: 8.03e+08 counts
Height: 150972.785 cps
Start Time: 6.88 min
End Time: 7.68 min



Sample Name: 'WXX100301-260CV' Sample ID: 'JILER' File: 'EXS03010087.wif'
Peak Name: '35-Dinitroaniline' Mass(es): '182.0/166.0 amu'
Comment: 'LCMSEXP_C' Annotation: ''

Sample Index: 1
Sample Type: QC
Concentration: 500 ng/mL
Calculated Conc: 3/2/2010
Acq. Date: 7:36:30 AM
Acq. Time: 7:36:30 AM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2000.00 cps
Min. Peak Width: 0.00 sec
Smoother 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: 3.92e+08 counts
Height: 106588.403 cps
Start Time: 8.15 min
End Time: 8.33 min

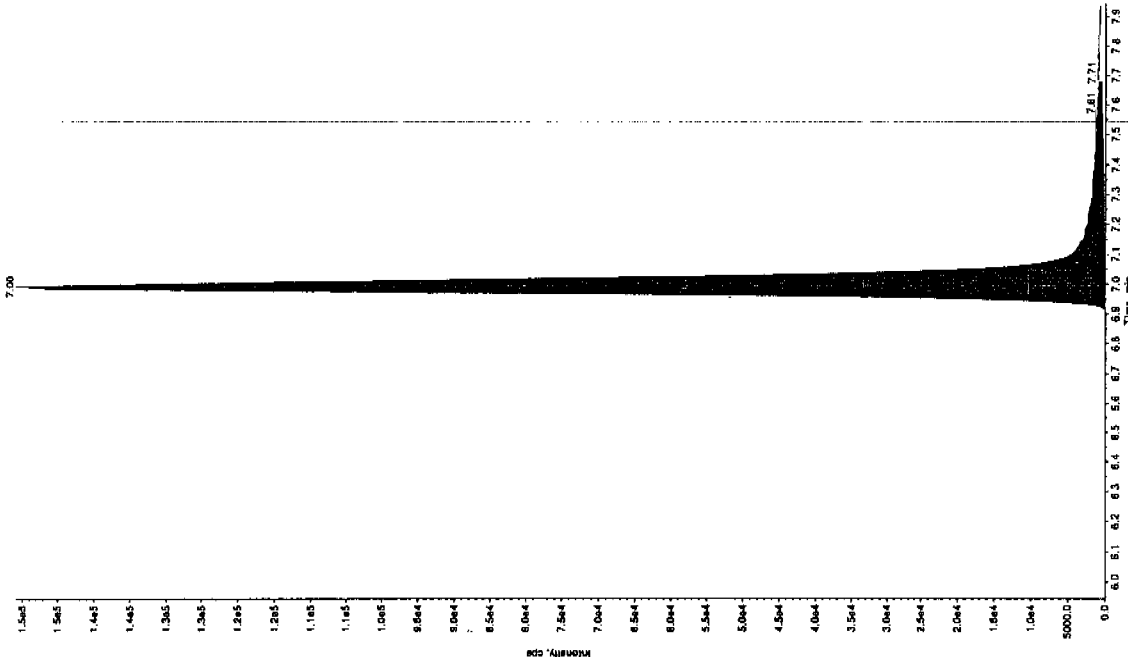


Hum 02/04/10

after Jan 3/3/10

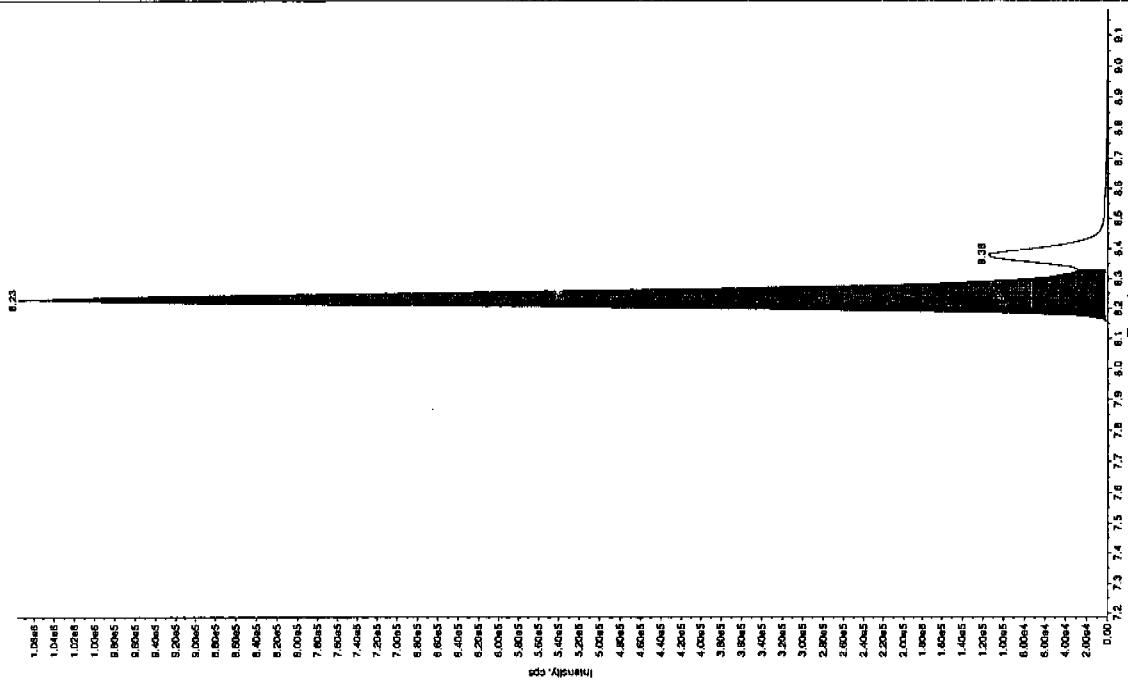
Sample Name: "WXX100301-260CV" Sample ID: "J1LER" File: "EXS0010087.wif"
 Peak Name: "IATB" Mass(es): "257.2/204.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 3/2/2010
 Acq. Date: 7:35:30 AM
 Acq. Time: 7:35:30 AM
 Modified: No
 Spec. Algorithm: IntelliQuan - IOA
 Spec. Peak Height: 2500.00 cps
 Spec. Peak Width: 0.00 sec
 Spec. Peak Points: 3
 Spec. Window: 30.0 sec
 Expected RT: 6.94 min
 Use Relative RT: No
 RT Type: Valley
 Retention Time: 7.00 min
 Area: 5.03e+005 counts
 Height: 150876.785 cps
 Start Time: 6.89 min
 End Time: 7.05 min



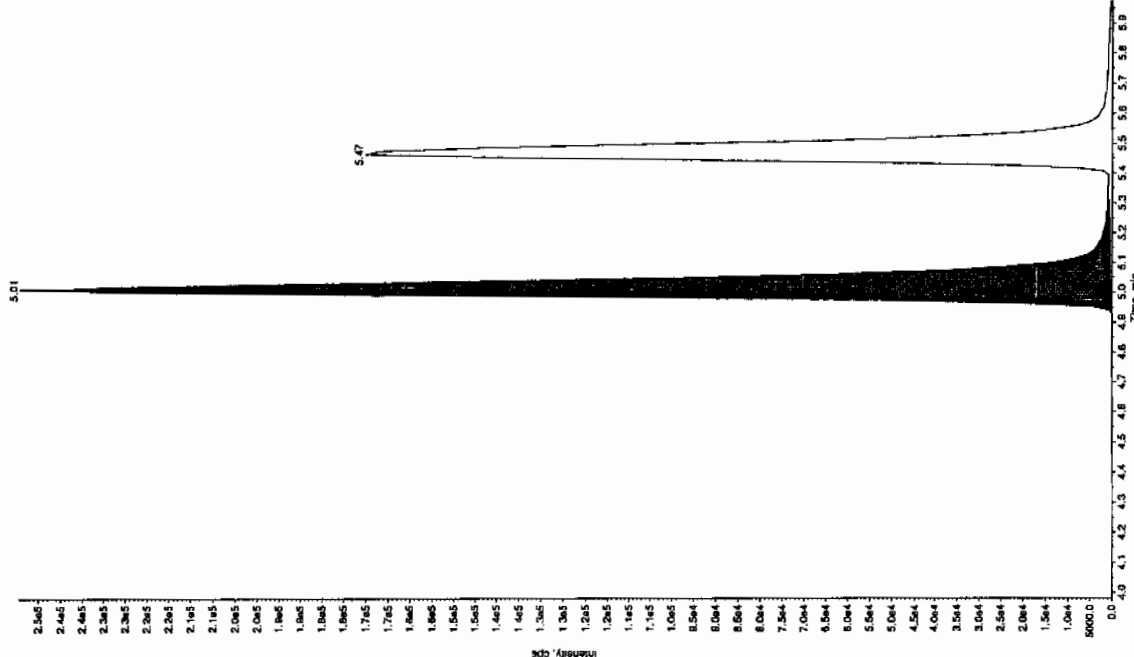
Sample Name: "WXX100301-260CV" Sample ID: "J1LER" File: "EXS0010087.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "162.0/66.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 3/2/2010
 Acq. Date: 7:35:30 AM
 Acq. Time: 7:35:30 AM
 Modified: Yes
 Spec. Algorithm: IntelliQuan - IOA
 Spec. Peak Height: 2500.00 cps
 Spec. Peak Width: 0.00 sec
 Spec. Peak Points: 3
 Spec. Window: 30.0 sec
 Expected RT: 8.19 min
 Use Relative RT: No
 RT Type: Manual
 Retention Time: 8.23 min
 Area: 3.95e+006 counts
 Height: 1076280.520 cps
 Start Time: 8.15 min
 End Time: 8.33 min



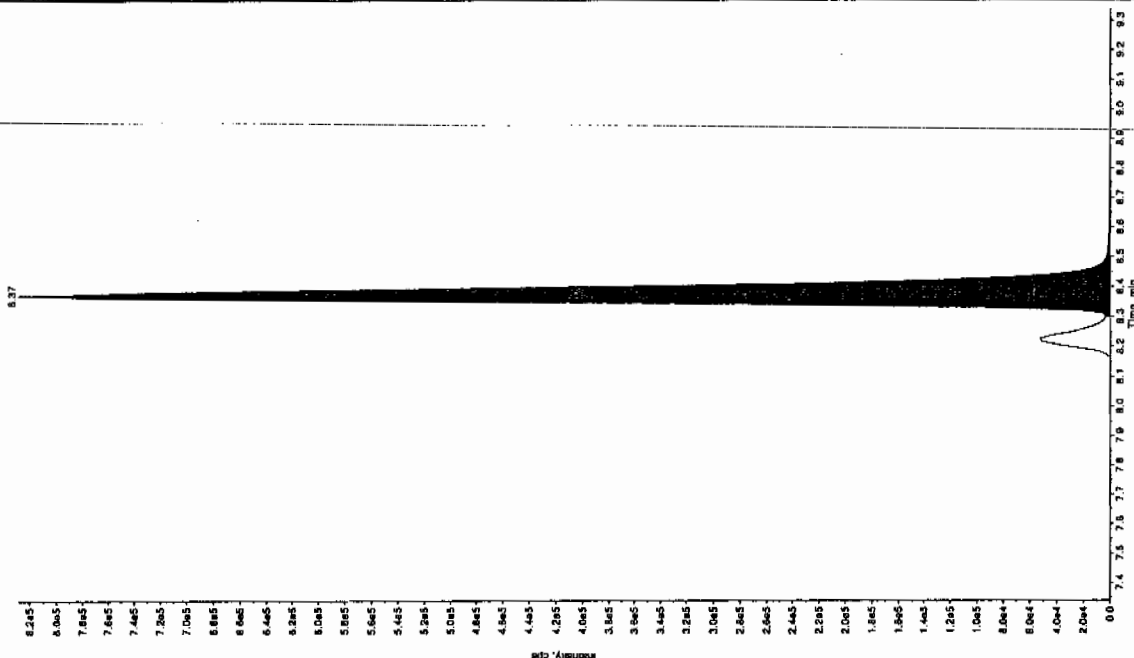
Sample Name: WXX100301-262CV Sample ID: 111ER File: EXS03010067.wif
 Peak Name: 26-Chlorine-nitrobenzene Mass(es): 166.0460 amu
 Comment: LCMSEXP_C - Annotation:

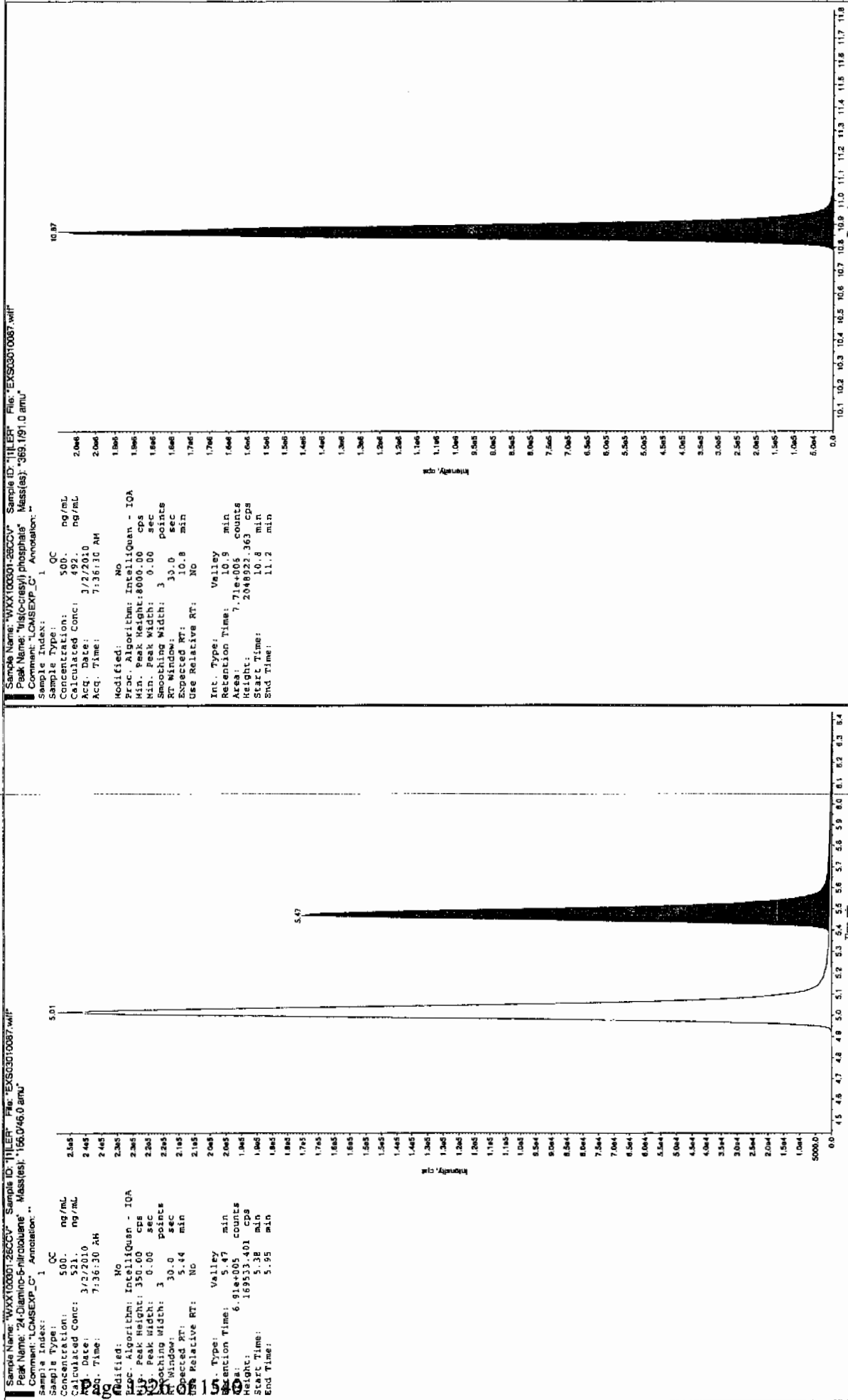
Sample Index: 1
 Sample Type: OC
 Concentration: 500 ng/mL
 Calculated Conc: 543 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 7:16:30 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.98 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.01 min
 Area: 1.01e+006 Counts
 Height: 2437.897 cps
 Start Time: 4.92 min
 End Time: 5.11 min



Sample Name: WXX100301-262CV Sample ID: 111ER File: EXS03010067.wif
 Peak Name: 34-Chlorobenzene Mass(es): 162.17515 amu
 Comment: LCMSEXP_C - Annotation:

Sample Index: 1
 Sample Type: OC
 Concentration: 250 ng/mL
 Calculated Conc: 239 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 7:36:30 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: 8.37 min
 Area: 2.91e+006 Counts
 Height: 22288.905 cps
 Start Time: 8.10 min
 End Time: 8.70 min





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

Lab Code: GEI

GEL Sample ID: WXXCRI

GEL Data File EXS03010089.wiff

Analysis Date: 02-MAR-10 08:08

LCMSMS ID: 1358

Column ID: Sphere 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 ,

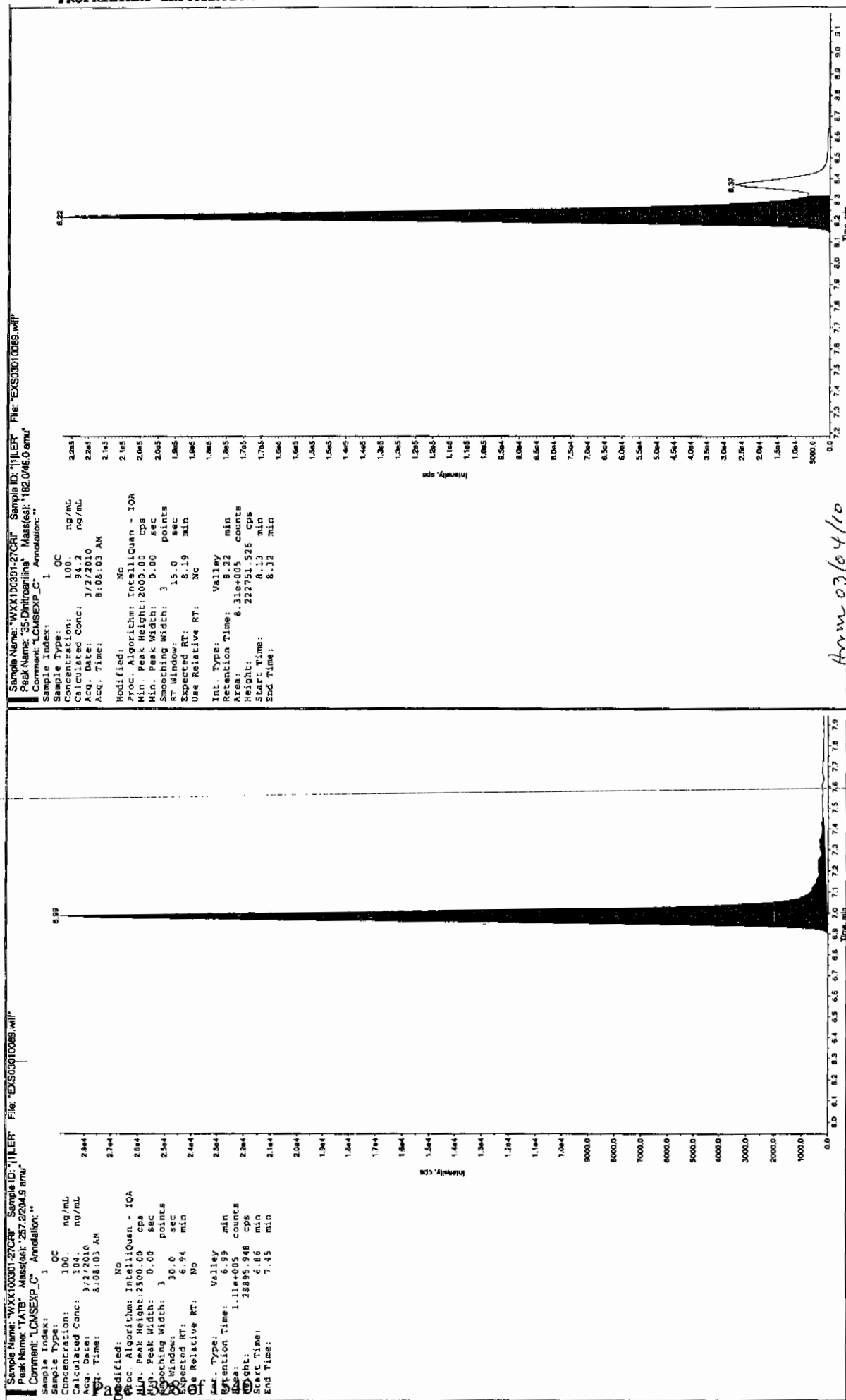
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

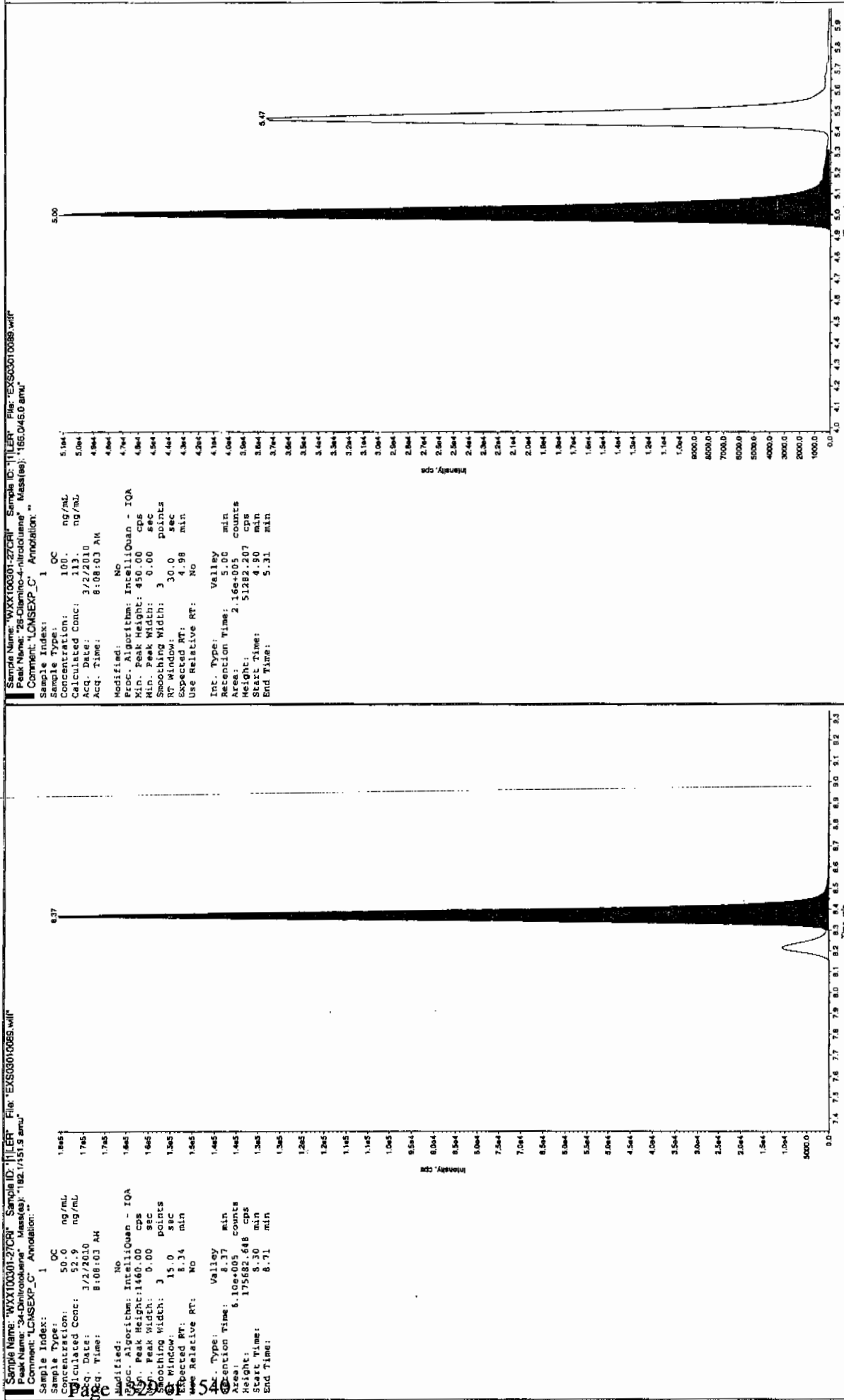
Column used to flag Recovery outside of Limits

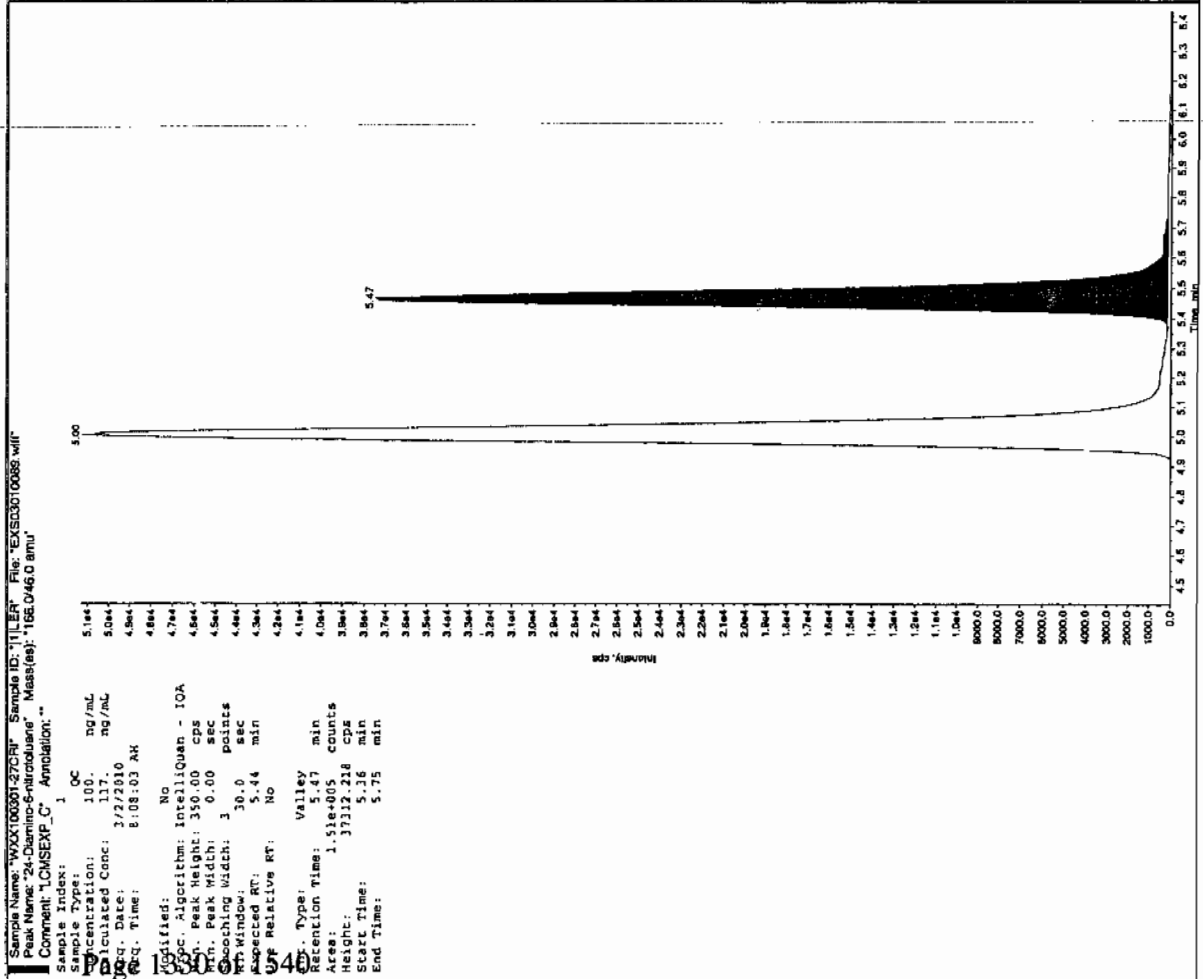
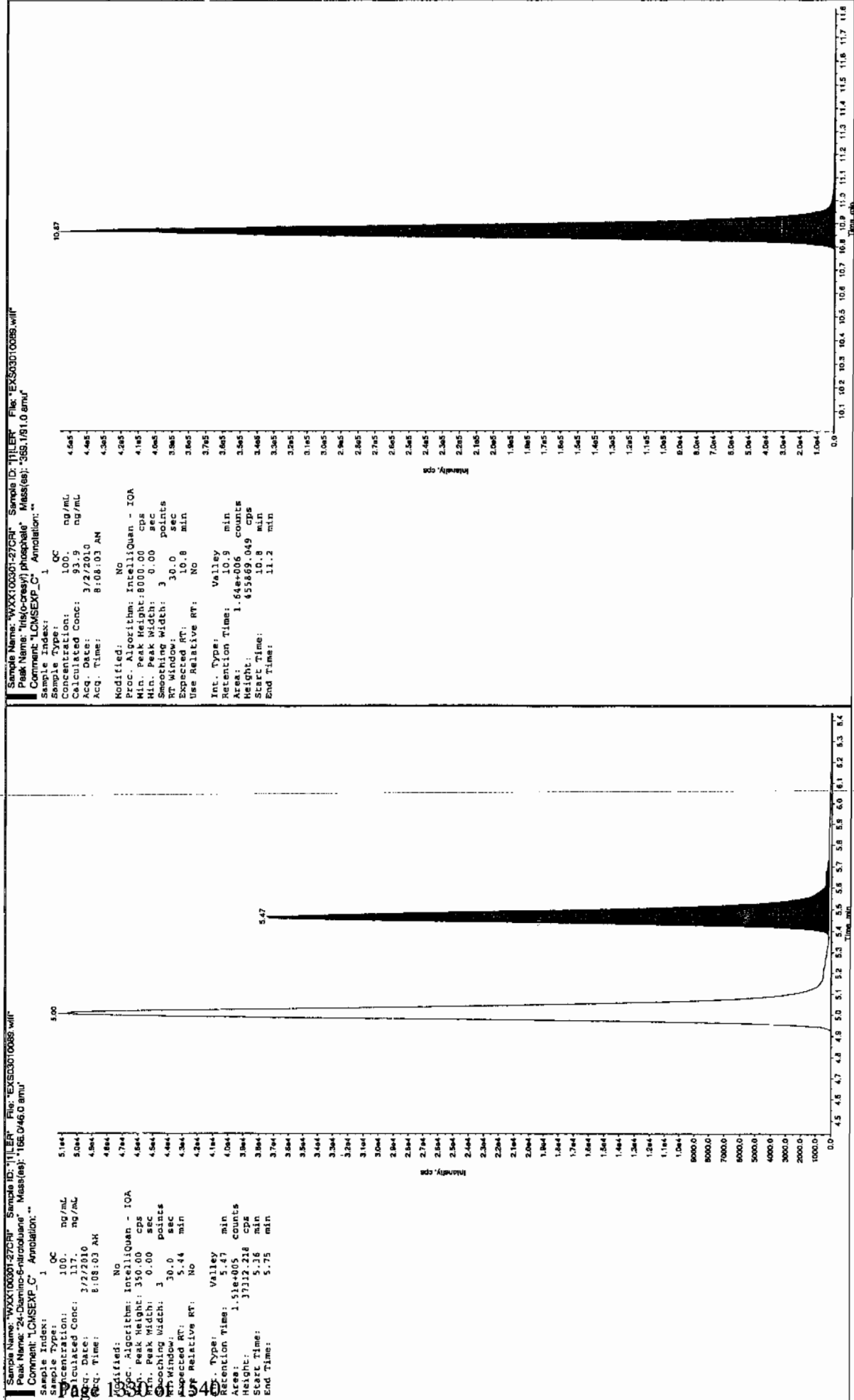
* Value outside of Recovery Limits

Run 3/3/10



Run 03/04/10





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

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 ,

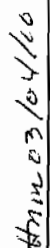
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

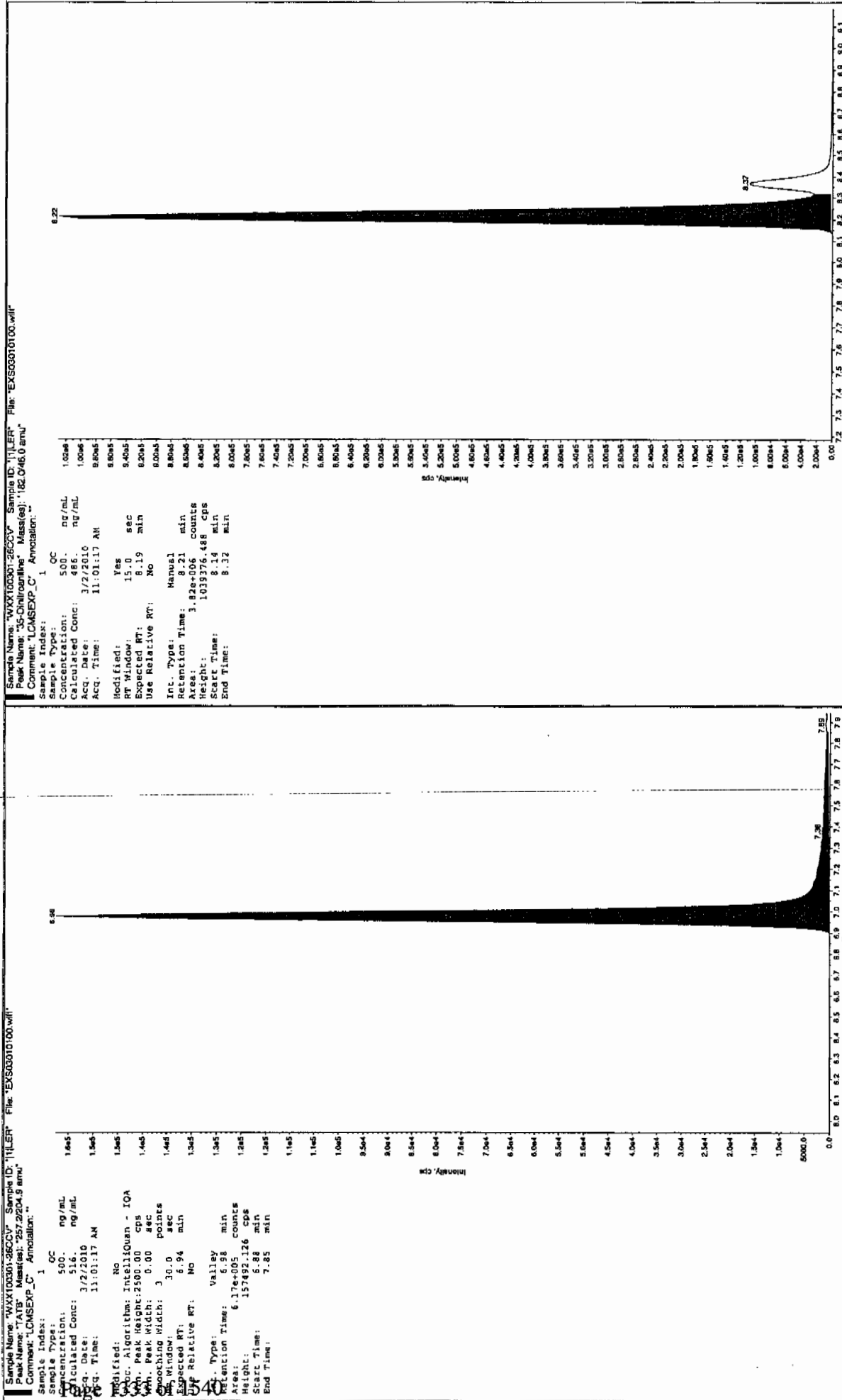
* Value outside of Recovery Limits

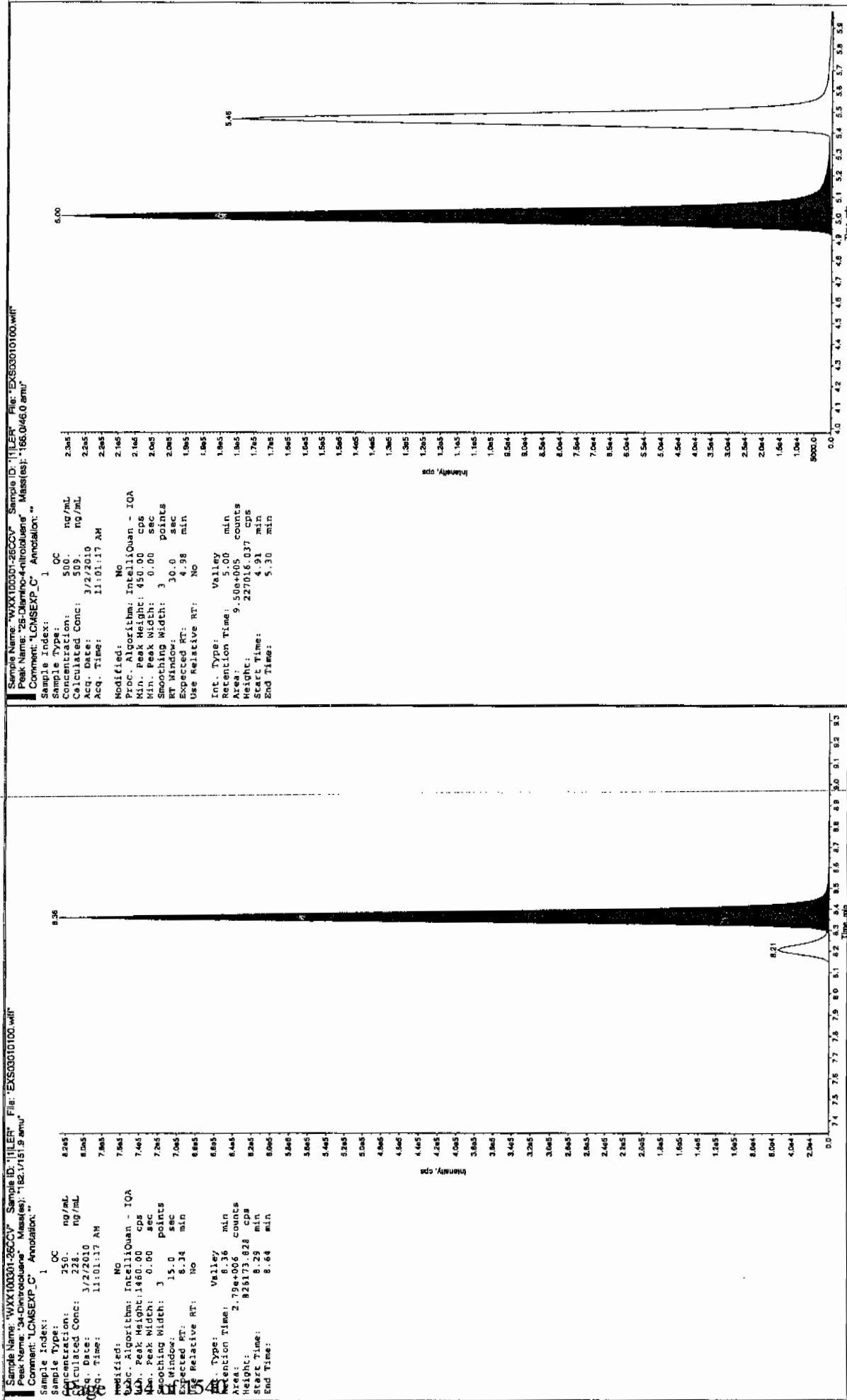
Before Jan 3/3/10

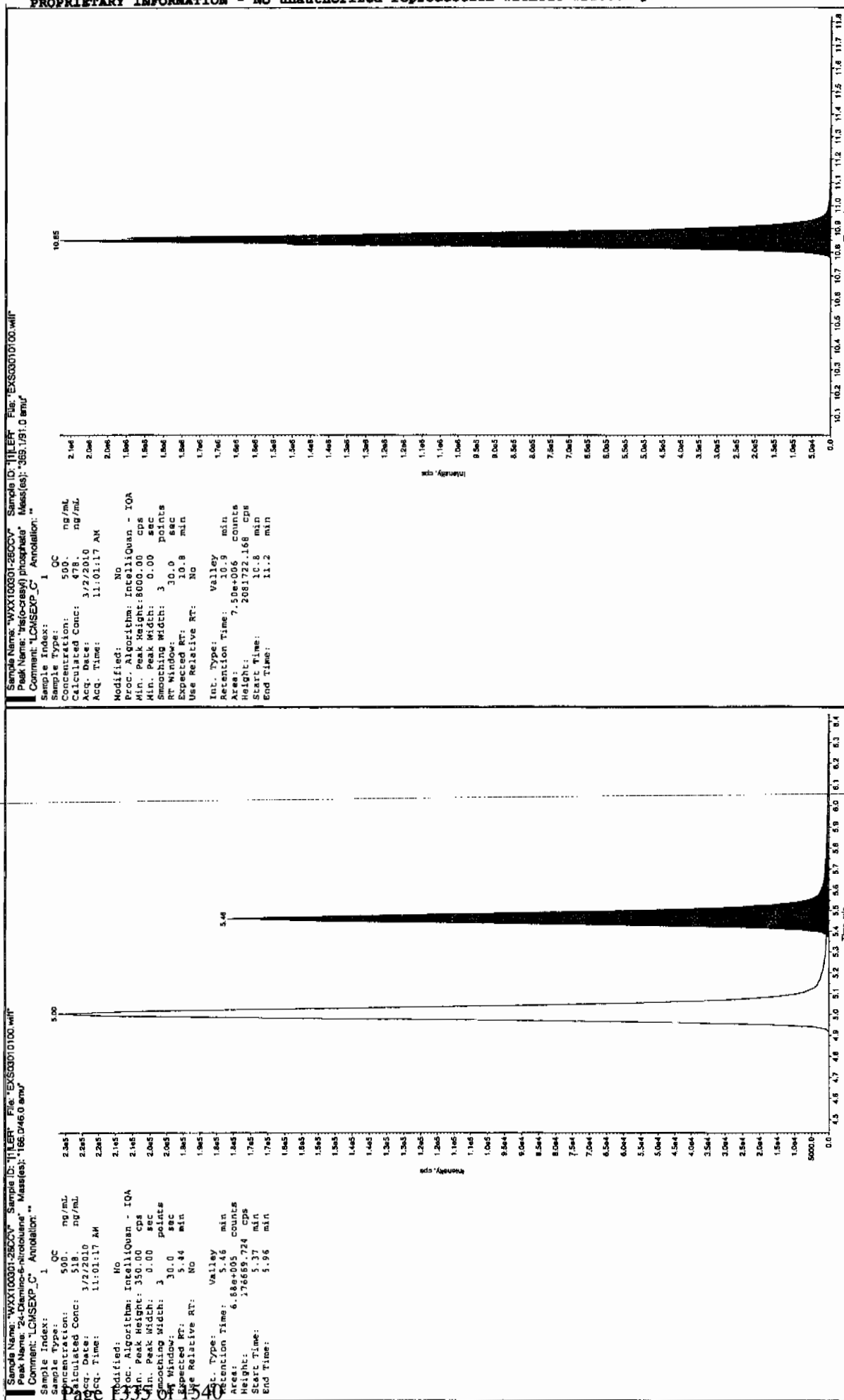


*GEL SOP GL-0A-E-056, Method 8321A-Modified LCMSMS#4

after Jan 31/10







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

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
2,4-Diamino-6-nitrotoluene	100	108	108	
2,6-Diamino-4-nitrotoluene	100	106	106	
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	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

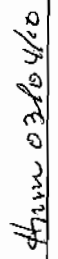
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

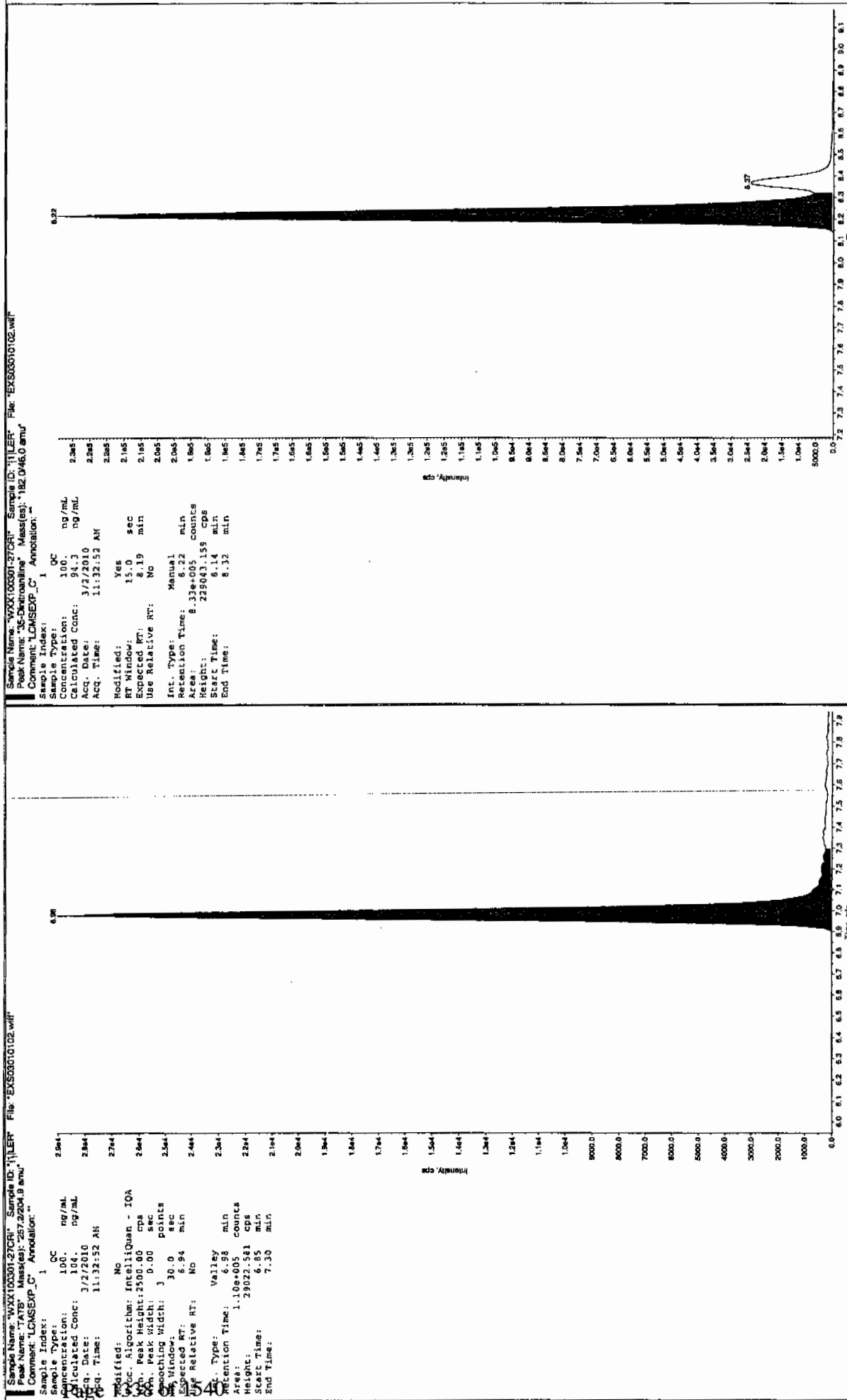
Column used to flag Recovery outside of Limits

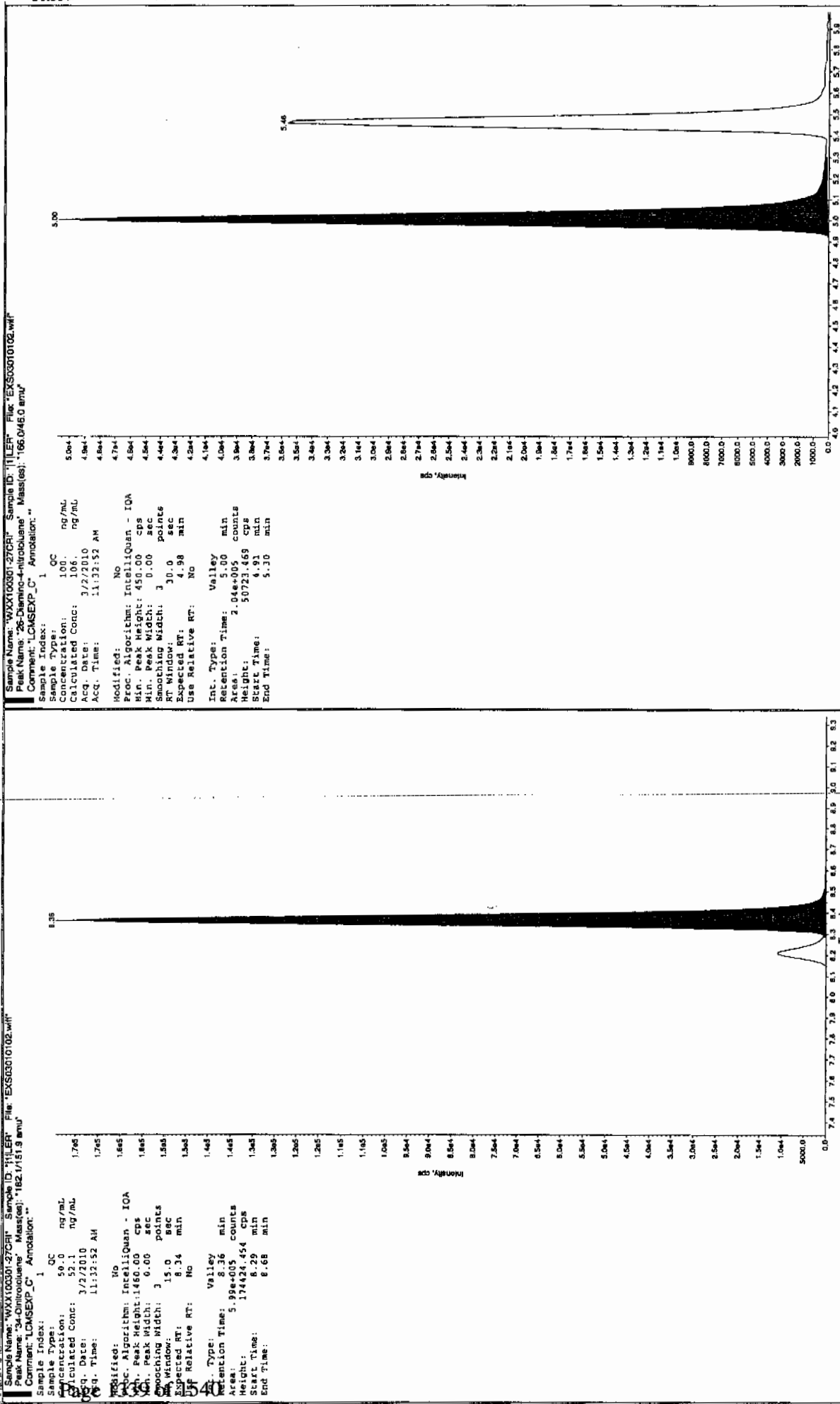
* Value outside of Recovery Limits

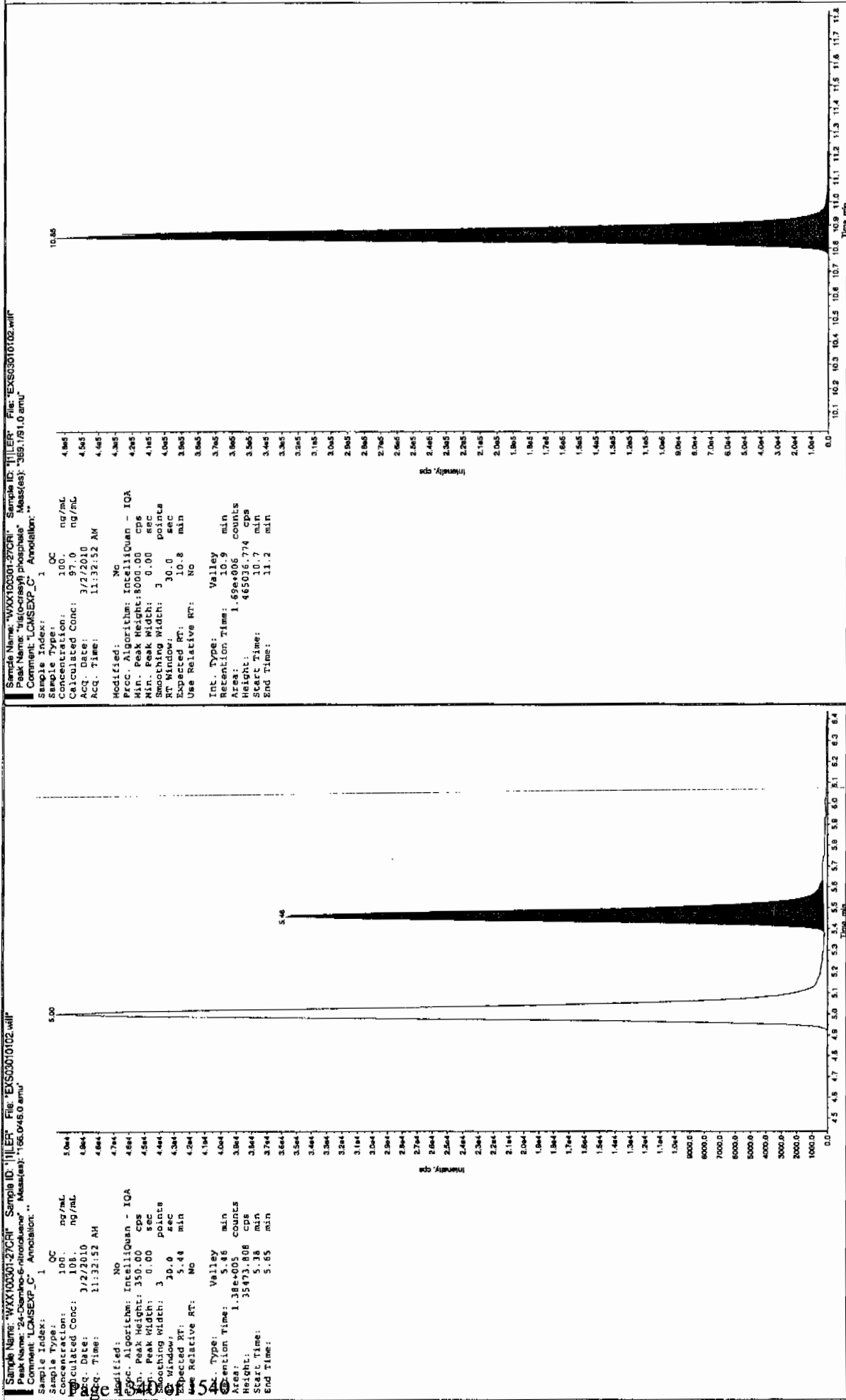
Before Jan 3/3/10



01/12/10
21210







7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

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 ,

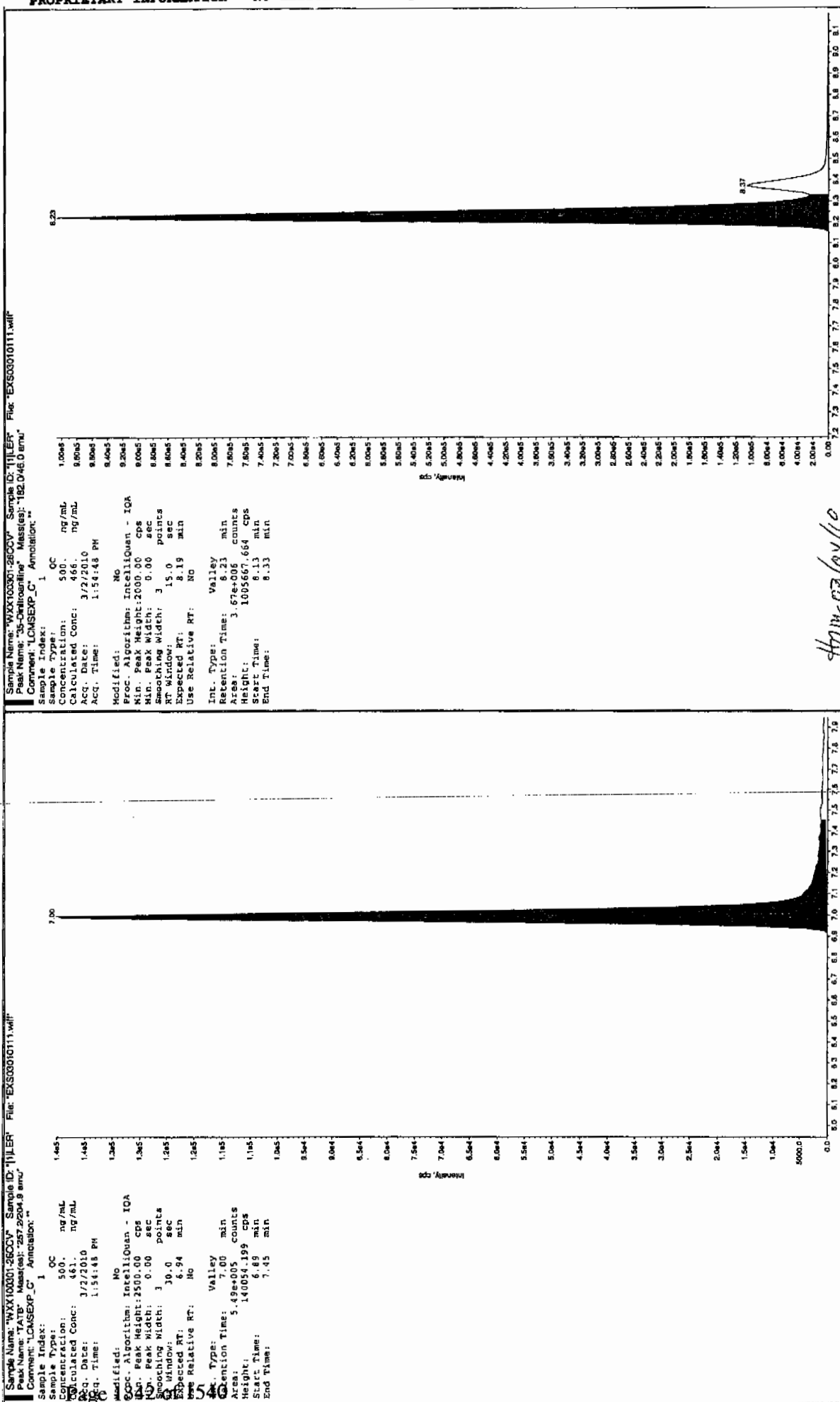
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

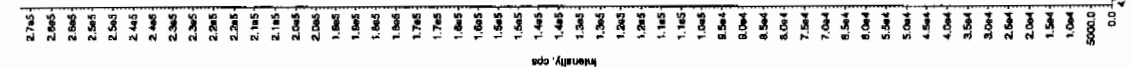
Handwritten: JAL 3/23/10



Handwritten: Hm 03/04/10

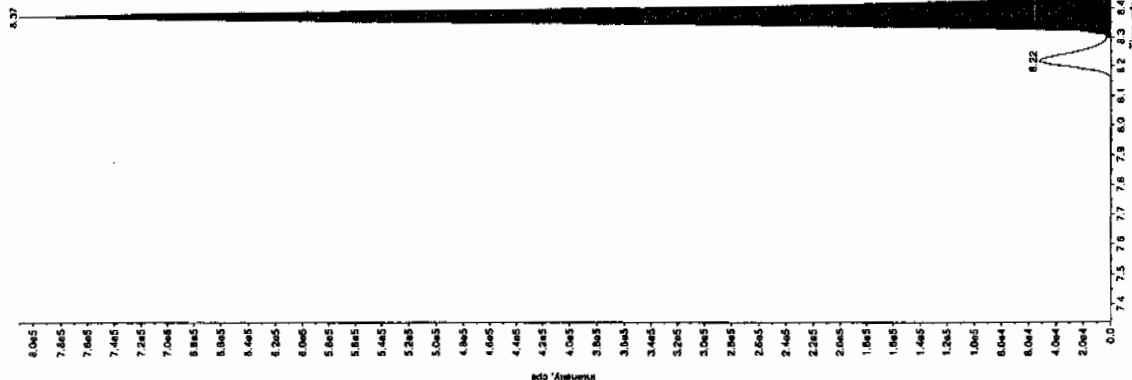
Sample Name: "WXX100301-26CCV" Sample ID: "11LRF" File: "EXS03010111.wif"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

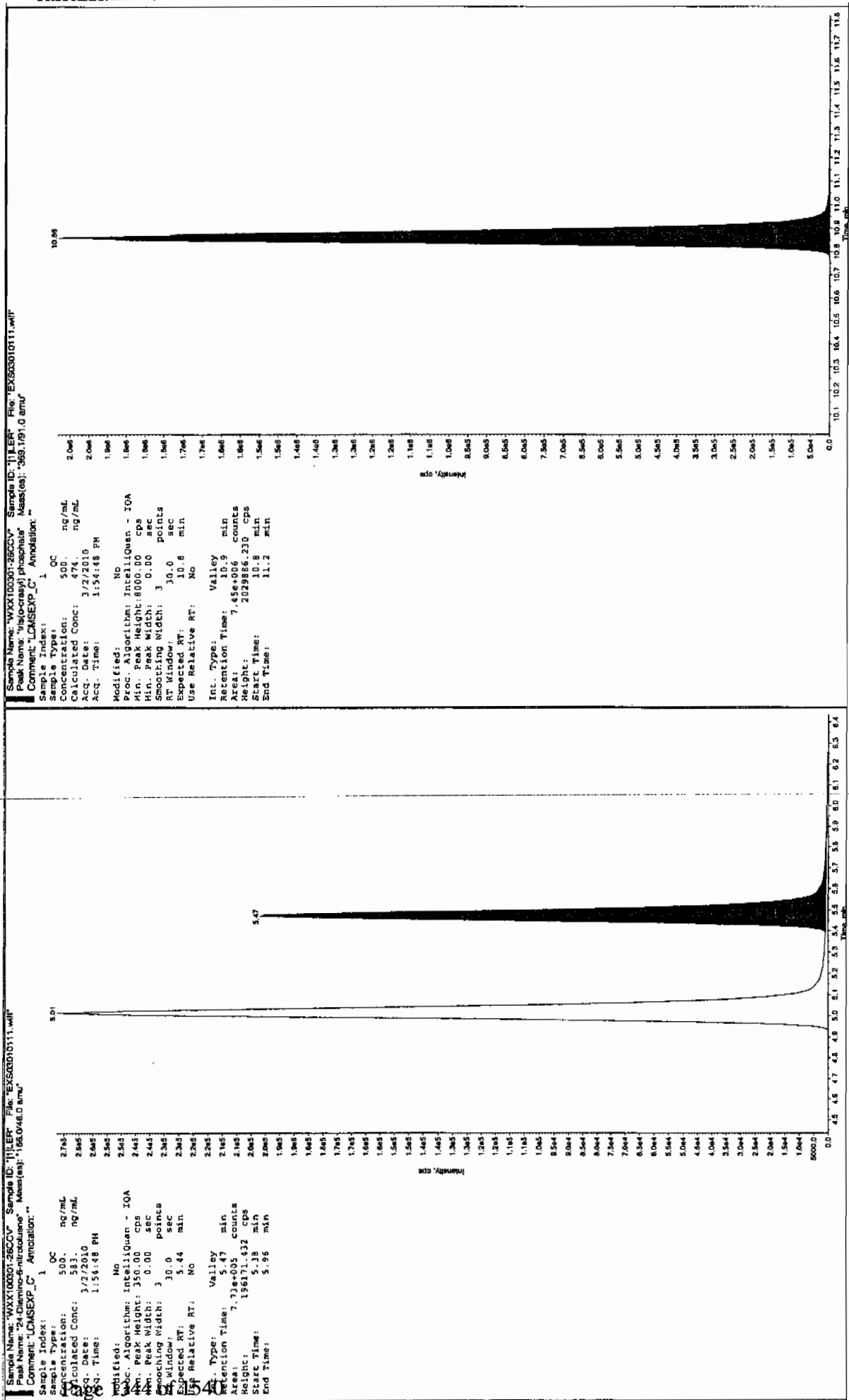
Sample Index: 1
 Sample Type: OC
 Concentration: 500. ng/mL
 Calculated Conc: 500. ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 1:55:46 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 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: "WXX100301-26CCV" Sample ID: "11LRF" File: "EXS03010111.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.151.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: OC
 Concentration: 250. ng/mL
 Calculated Conc: 250. ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 1:54:48 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 160.00 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: 803941.589 cps
 Start Time: 8.30 min
 End Time: 8.69 min





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1567

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 ,

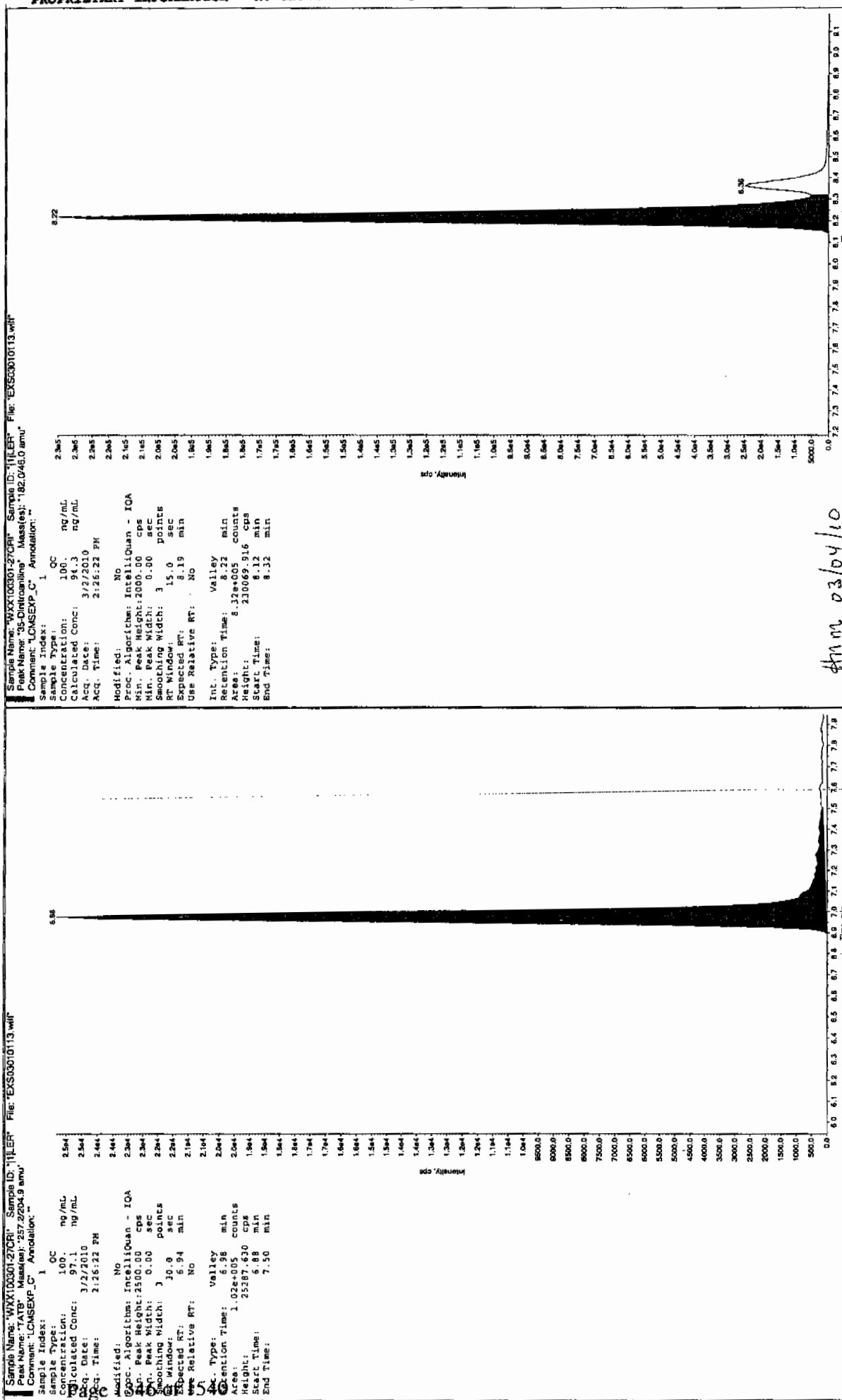
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

200
3/10

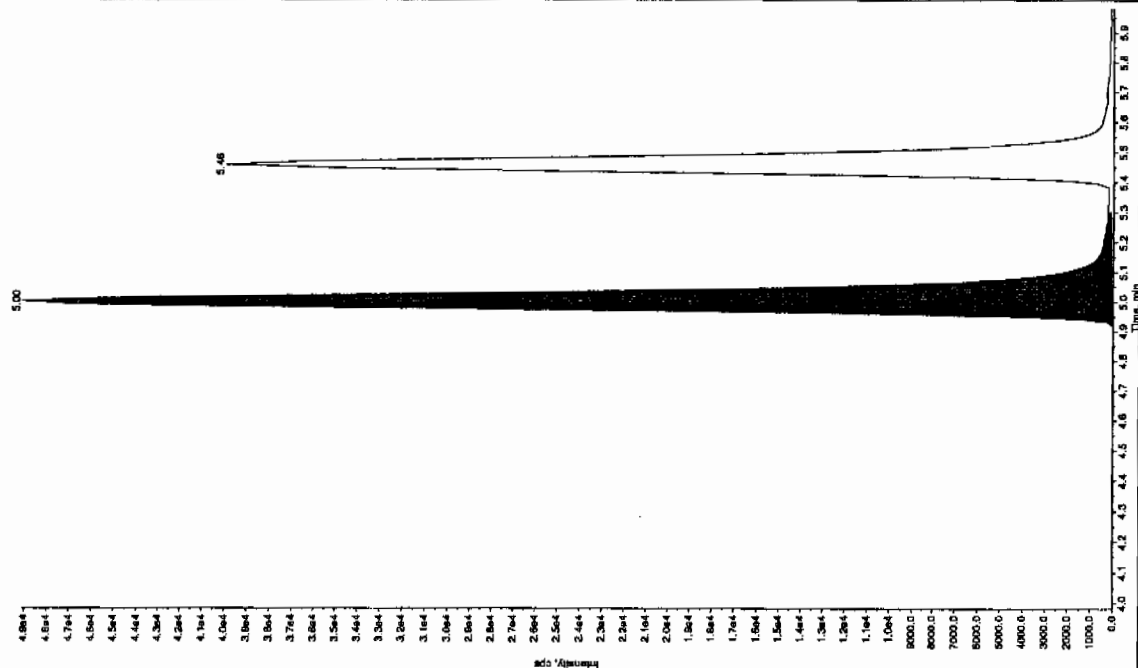


4mm 03/04/10

Sample Name: "VXX10001-27091" Sample ID: "111ER" File: "EXS0010113.wif"
 Peak Name: "24-Dichlorobenzene" Mass(es): "182.0460 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1 QC
 Sample Type: 1 QC
 Concentration: 100. ng/mL
 Calculated Conc: 112. ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 2:26:22 PM

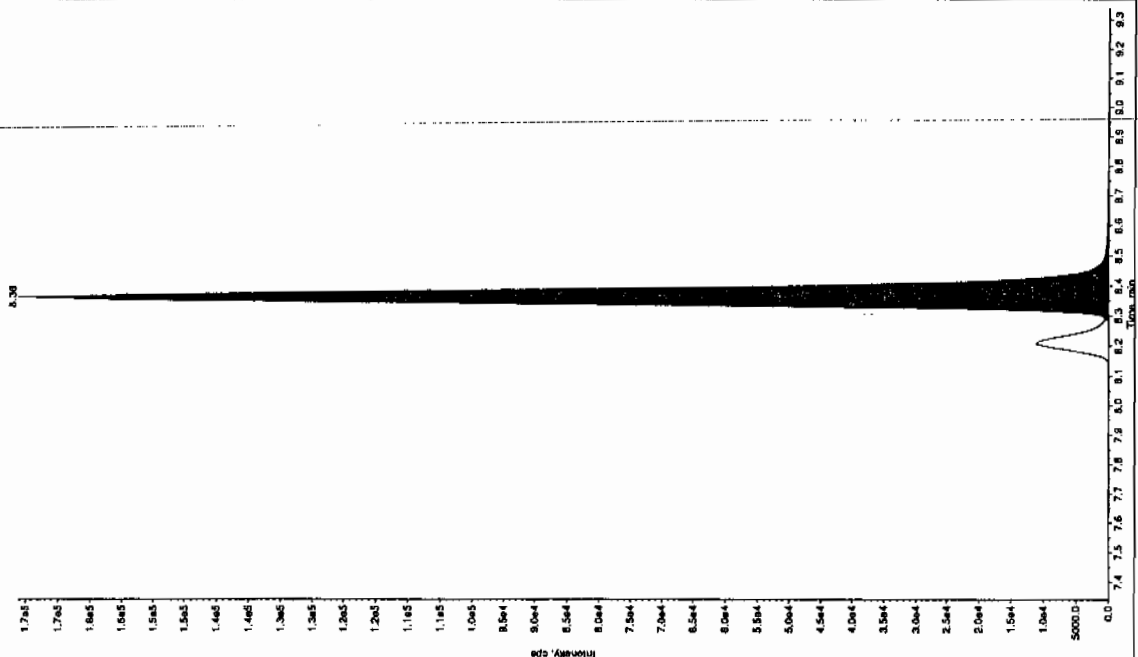
Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.98 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.98 min
 Area: 2.14e+005 counts
 Height: 49042.316 cps
 Start Time: 4.89 min
 End Time: 5.10 min

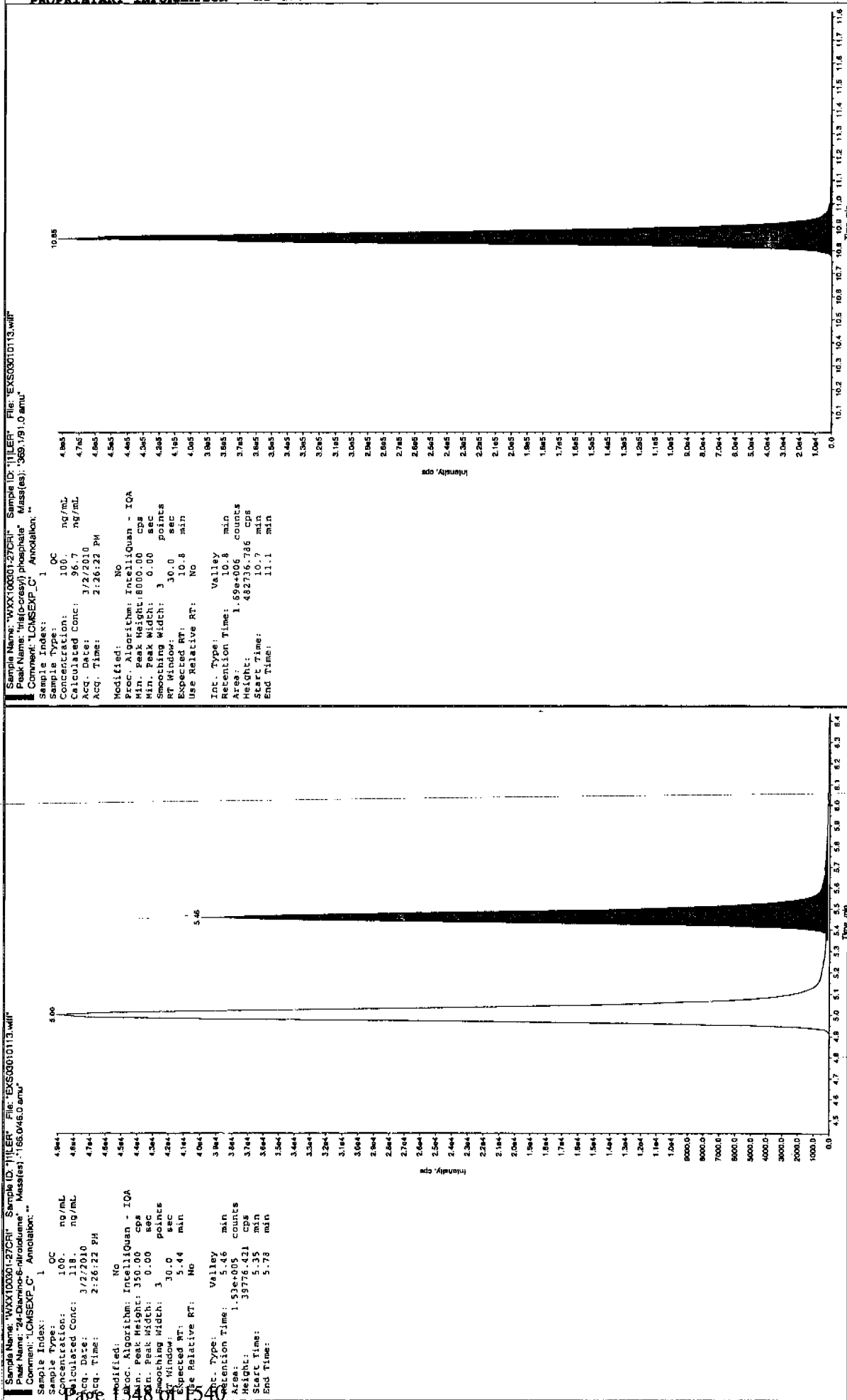


Sample Name: "VXX10001-27091" Sample ID: "111ER" File: "EXS0010113.wif"
 Peak Name: "24-Dichlorobenzene" Mass(es): "182.1151 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1 QC
 Sample Type: 1 QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 51.0 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 2:26:22 PM

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: 8.36 min
 Area: 5.85e+005 counts
 Height: 171177.277 cps
 Start Time: 8.29 min
 End Time: 8.67 min





QUALITY CONTROL DATA

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 950080

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 1202035678

Sample Amount 2

Moisture:

Amount Units g

Date Received: 07-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312077.wiff

Date Analyzed: 13-MAR-10 17:25

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

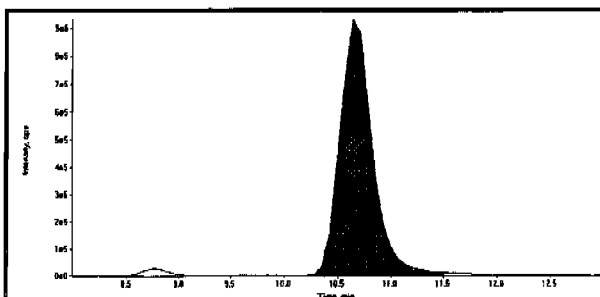
*Concentration =

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

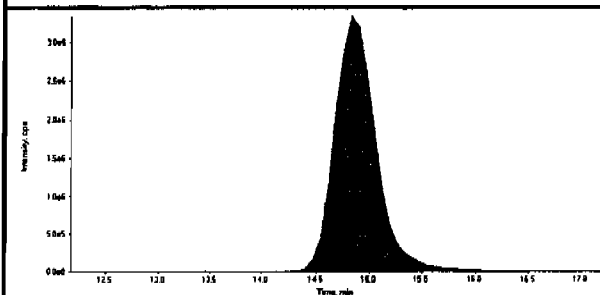
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

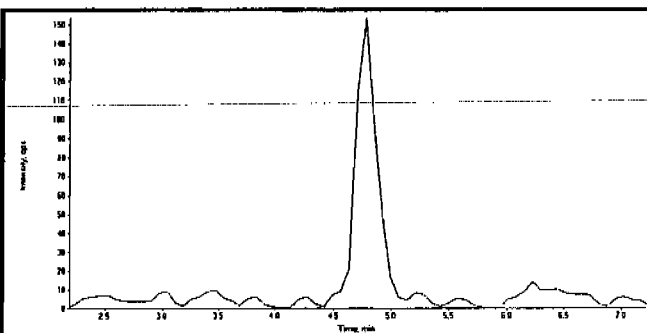
Data File	EXP0312077.wiff	Acquisition Date	3/13/2010 5:25:40 PM
Sample Name	1202035678	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



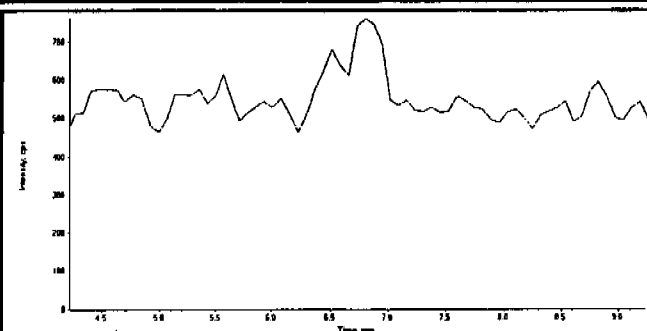
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	20200000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	91800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

OK
3/24/10

Hmm
03/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312077.wiff	Acquisition Date	3/13/2010 5:25:40 PM
Sample Name	1202035678	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312077.wiff	Acquisition Date	3/13/2010 5:25:40 PM
Sample Name	1202035678	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

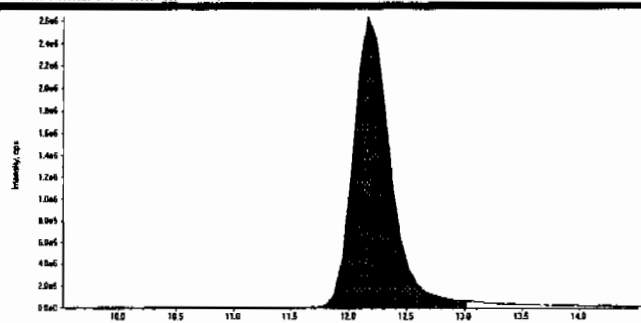
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

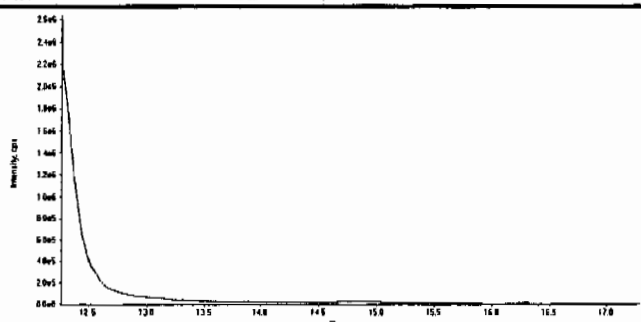
	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

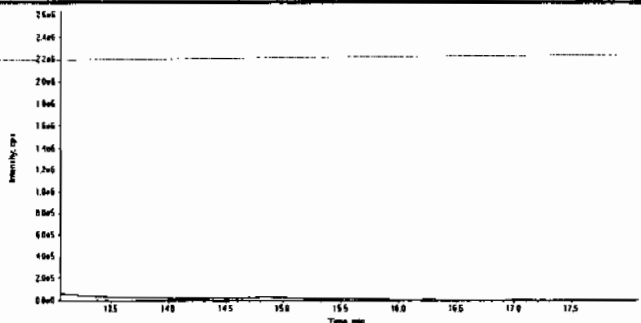
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

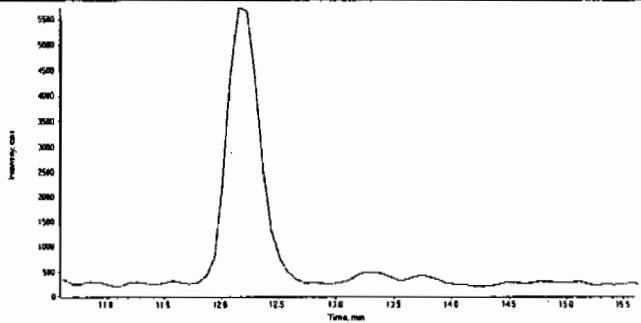
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312077.wiff	Acquisition Date	3/13/2010 5:25:40 PM
Sample Name	1202035678	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	5.98e+007
	Manual Modification	No
	Amount:	265. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

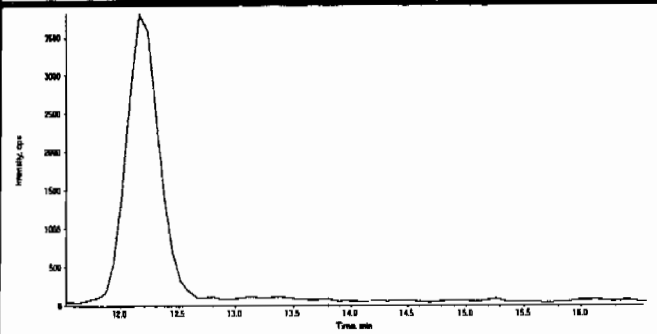
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

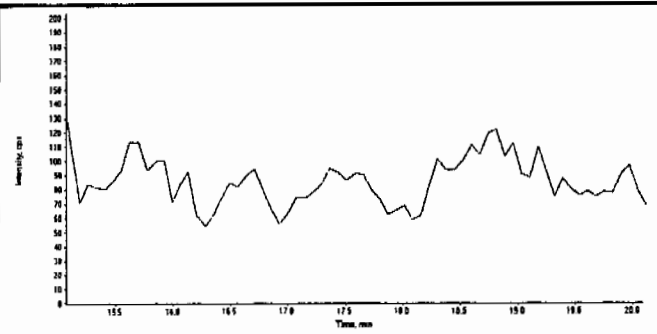
	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

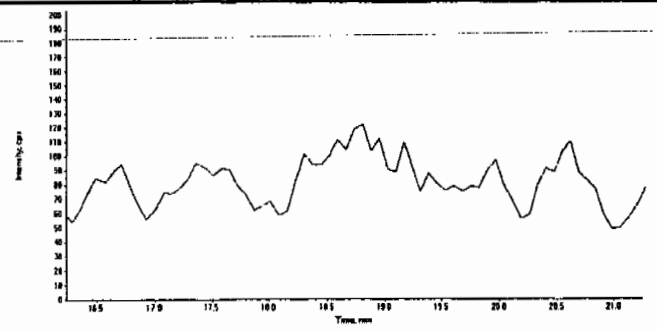
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

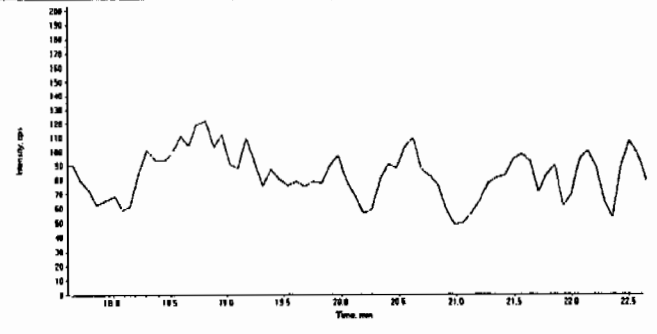
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LCMSMS#3

Data File	EXP0312077.wiff	Acquisition Date	3/13/2010 5:25:40 PM
Sample Name	1202035678	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

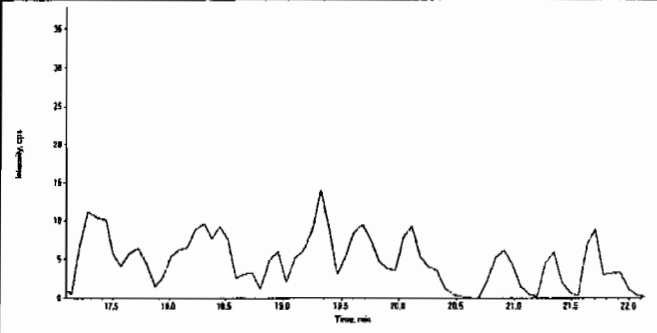
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312077.wiff	Acquisition Date	3/13/2010 5:25:40 PM
Sample Name	1202035678	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 950080

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 1202035678

Sample Amount 2

Moisture:

Amount Units g

Date Received: 07-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010077.wiff

Date Analyzed: 02-MAR-10 04:59

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

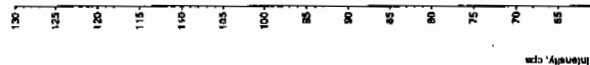
*Concentration =

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

Jan 3/3/10

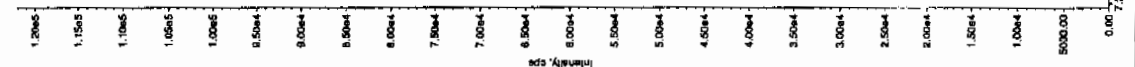
Sample Name: "1202035678" Sample ID: "95008121ER" File: "EX50010077.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "CX63212S" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 4:59:11 AM
 Modified: No

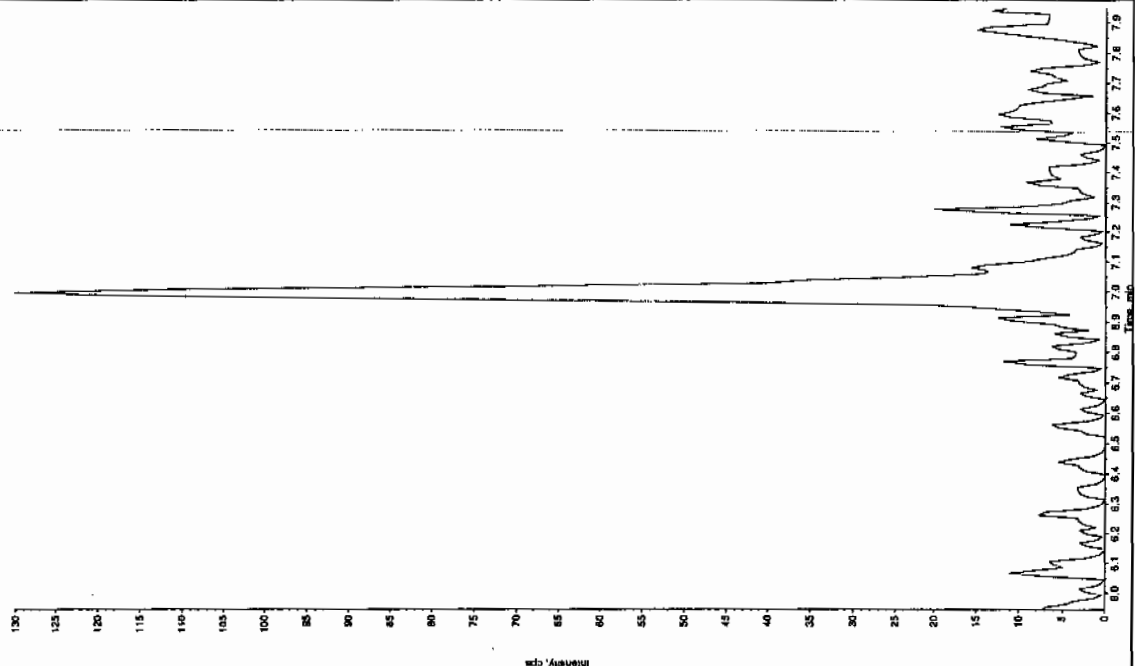


Sample Name: "1202035678" Sample ID: "95008121ER" File: "EX50010077.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "192.0450 amu"
 Comment: "CX63212S" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/2/2010
 Acq. Time: 4:59:11 AM
 Modified: No



Jan 3/3/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "1202035678" Sample ID: "95008121ER" File: "EXS03010077.wil"

Peak Name: "26-Diantho-4-nitrofluorene" Mass(es): "156.046.0 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1

Sample Type: Unknown

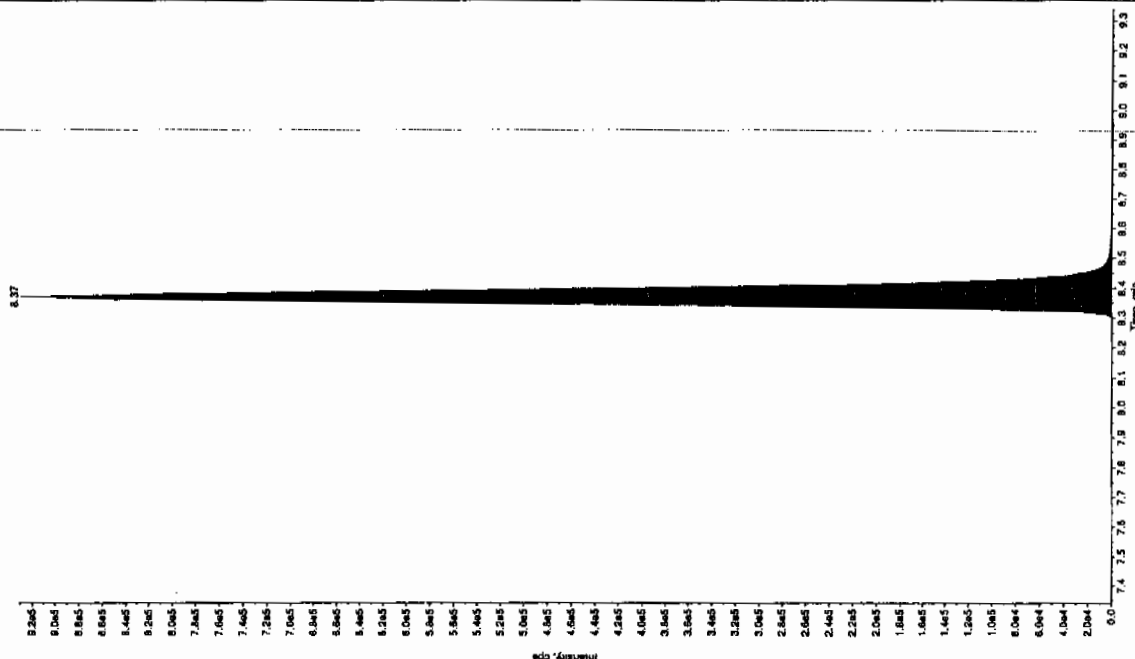
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/2/2010

Acq. Time: 4:59:11 AM

Modified: No



Sample Name: "1202035678" Sample ID: "95008121ER" File: "EXS03010077.wil"

Peak Name: "34-Dinitrofluorene" Mass(es): "192.1151.9 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: 4:59:11 AM

Modified: No

Proc. Algorithm: IntelliQuan - IGA

Wh. Peak Height: 1460.00 cps

Wh. Peak Width: 0.00 sec

Wh. Peak Width: 3 points

Wh. Peak Width: 15.0 sec

Wh. Peak Width: 8.34 min

Expected RT: 8.34 min

Obs. Relative RT: No

Int. Type: Valley

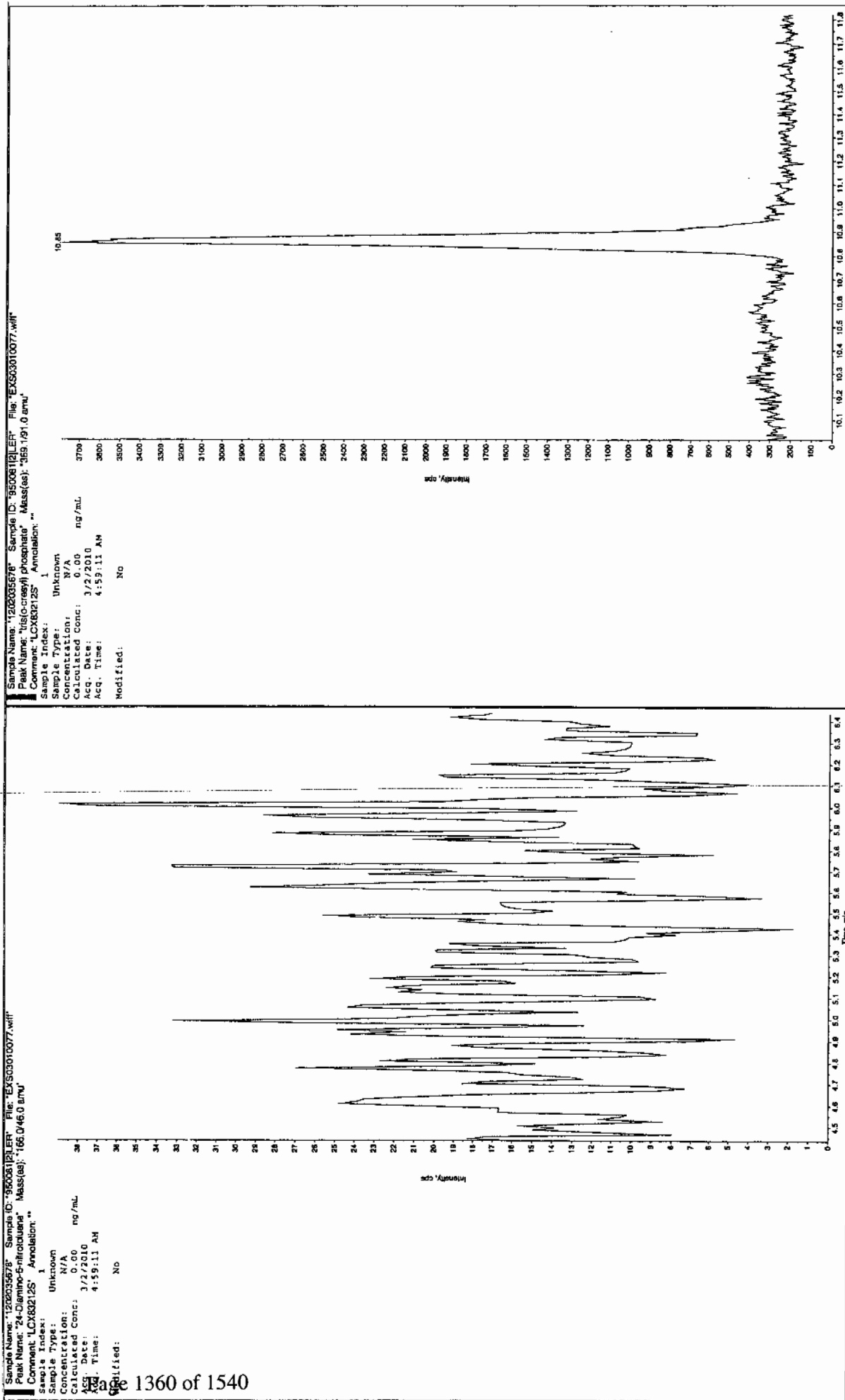
Retention Time: 8.37 min

Area: 3.20e+006 counts

Weight: 930605.591 cps

Start Time: 8.21 min

End Time: 8.78 min



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 950080

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 1202035679

Sample Amount 2

Moisture:

Amount Units g

Date Received: 07-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312078.wiff

Date Analyzed: 13-MAR-10 17:52

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4180	
121-14-2	2,4-Dinitrotoluene	4610	
121-82-4	RDX	4830	
19406-51-0	4-Amino-2,6-dinitrotoluene	4500	
2691-41-0	HMX	4160	
35572-78-2	2-Amino-4,6-dinitrotoluene	4700	
479-45-8	Tetryl	2930	
606-20-2	2,6-Dinitrotoluene	4650	
78-11-5	PETN	4680	
88-72-2	o-Nitrotoluene	4420	
98-95-3	Nitrobenzene	4670	
99-08-1	m-Nitrotoluene	3680	
99-35-4	1,3,5-Trinitrobenzene	4220	
99-65-0	m-Dinitrobenzene	4390	
99-99-0	p-Nitrotoluene	4000	

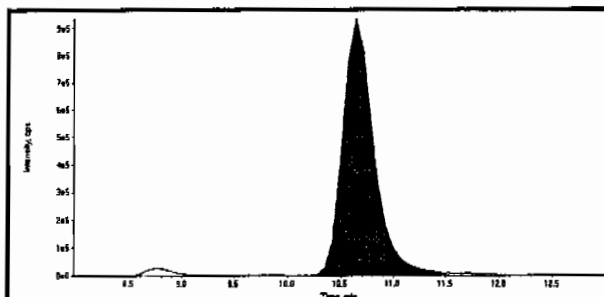
*Concentration =

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

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

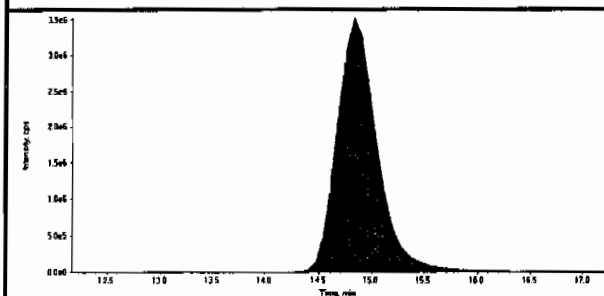
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312078.wiff	Acquisition Date	3/13/2010 5:52:15 PM
Sample Name	1202035679	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



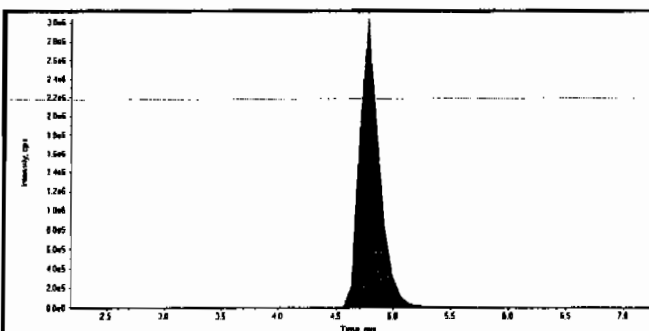
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	19400000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

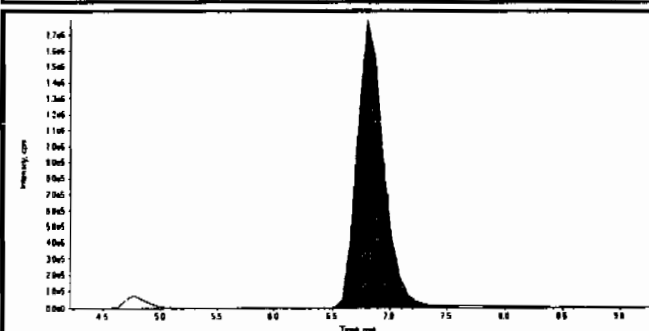


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	94000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	3.67e+007
Manual Modification	No
Amount:	416. (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	2.95e+007
Manual Modification	No
Amount:	483. (ng/mL)
% Accuracy:	N/A

LER
3/24/10

hmm
03/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312078.wiff	Acquisition Date	3/13/2010 5:52:15 PM
Sample Name	1202035679	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	9.99e+007
	Manual Modification	No
	Amount:	422. (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312078.wiff	Acquisition Date	3/13/2010 5:52:15 PM
Sample Name	1202035679	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

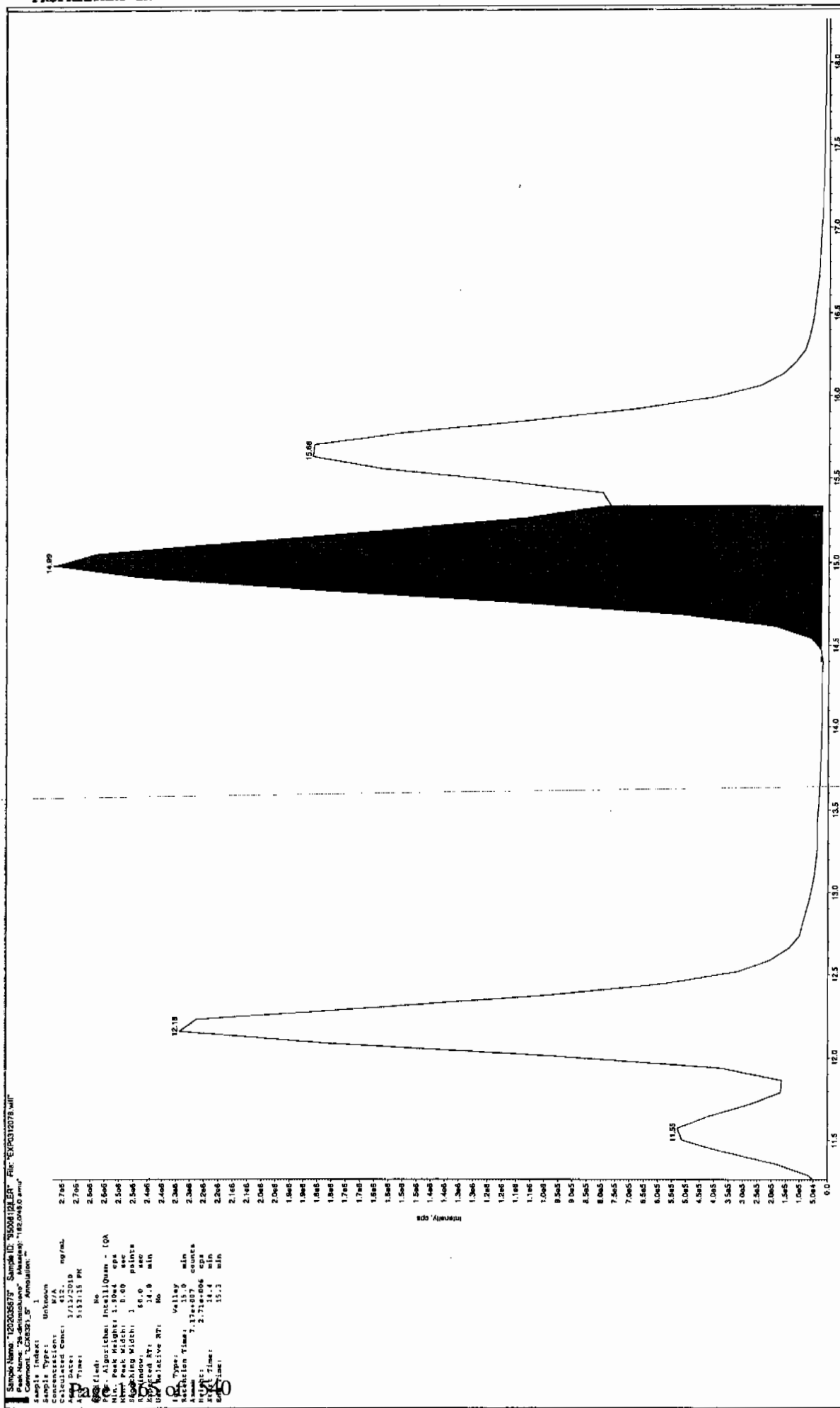
	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.8
	Area Counts:	4.55e+007
	Manual Modification	No
	Amount:	439. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.9
	Area Counts:	3.93e+007
	Manual Modification	No
	Amount:	293. (ng/mL)
	% Accuracy:	N/A

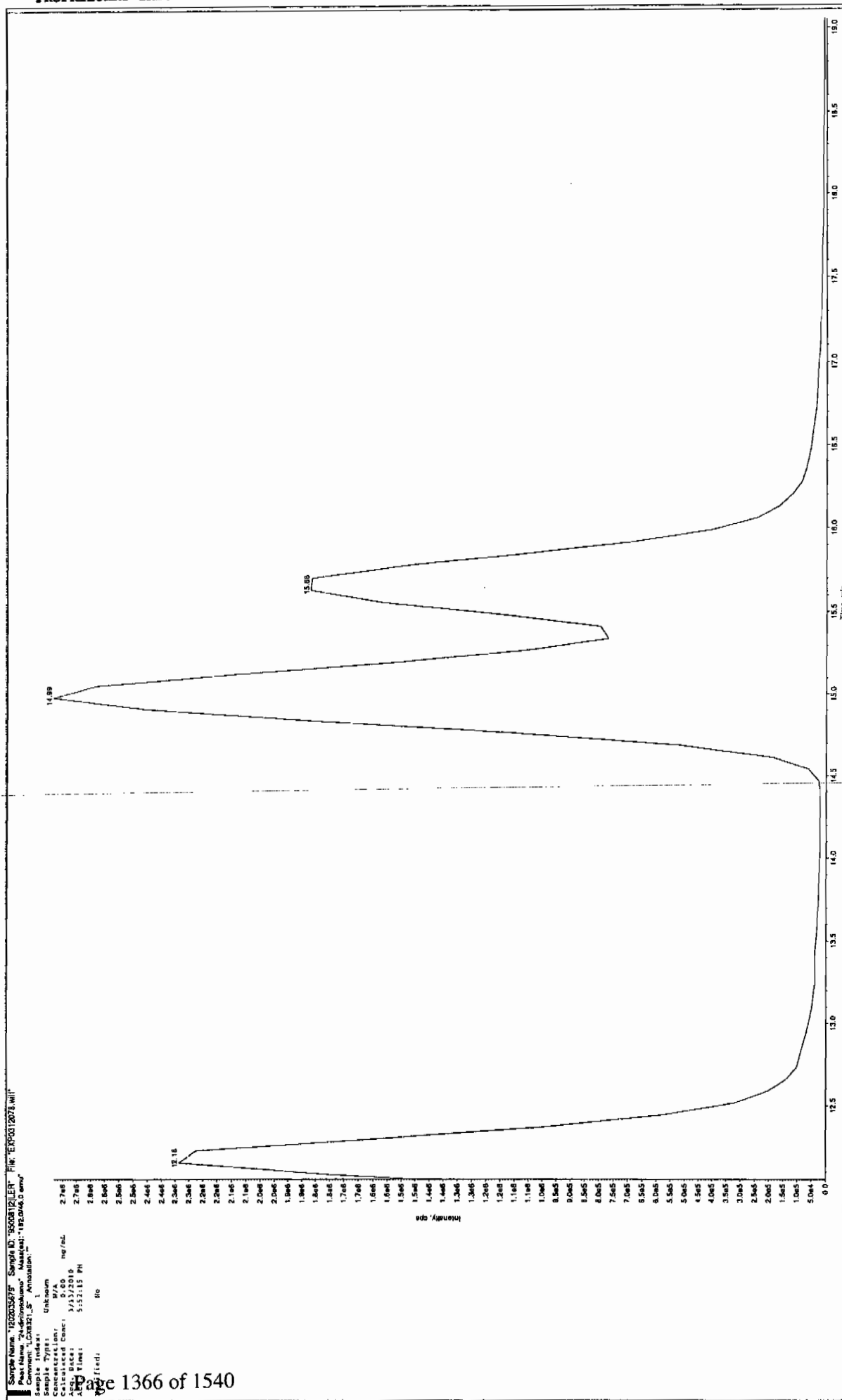
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	1.84e+008
	Manual Modification	No
	Amount:	418. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	2.75e+006
	Manual Modification	No
	Amount:	467. (ng/mL)
	% Accuracy:	N/A

Before Jan 31/10



Before Jan 31/20



Sample Name: 12023477 Sample ID: 12023477 File: E:\201\2012\12023477
 Peak Name: "2,3,4,5-tetrahydro-2H-pyran-2-one" Mass: 112.046 g/mol
 Comment: "1,2,3,4,5-tetrahydro-2H-pyran-2-one"

Sample Index:
 Sample Type: Unknown
 Sample Name: 12023477
 Calculated Conc: 0.60 ng/mL
 Acq Date: 3/13/2019
 Acq Time: 5:52:15 PM
 No (file)

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312078.wiff	Acquisition Date	3/13/2010 5:52:15 PM
Sample Name	1202035679	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

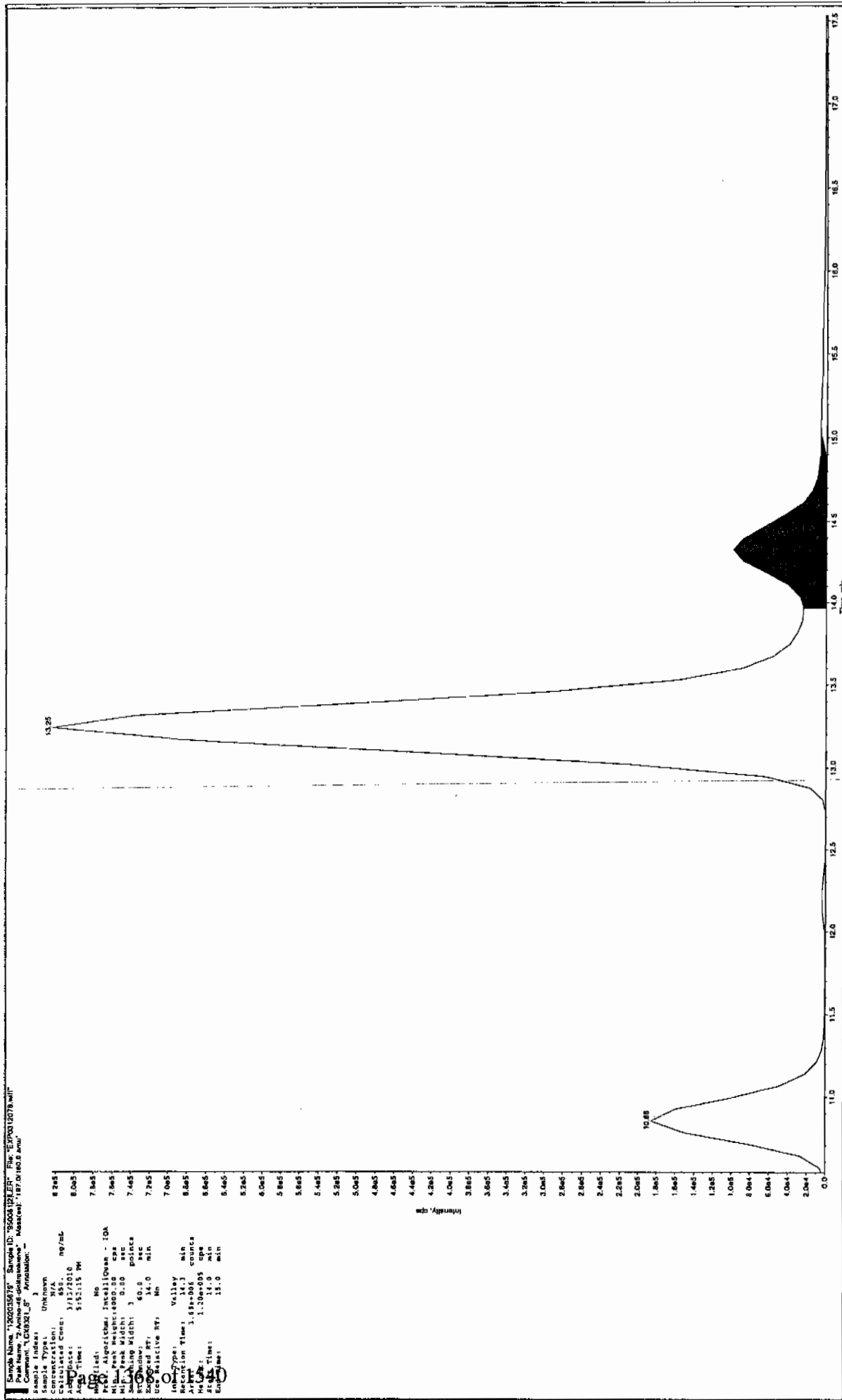
	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	4.37e+007
	Manual Modification	No
	Amount:	189. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	15.0
	Area Counts:	7.17e+007
	Manual Modification	Yes
	Amount:	465. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.7
	Area Counts:	5.10e+007
	Manual Modification	Yes
	Amount:	461. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	7.87e+007
	Manual Modification	No
	Amount:	450. (ng/mL)
	% Accuracy:	N/A

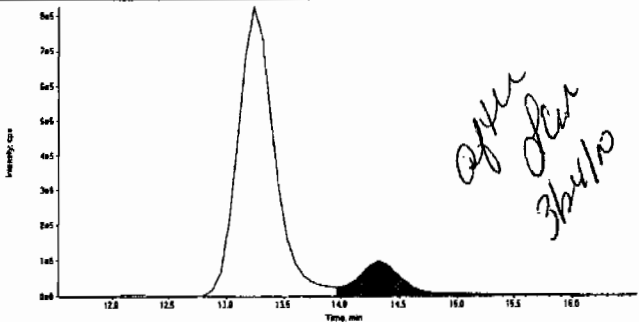
Before day 3/24/10

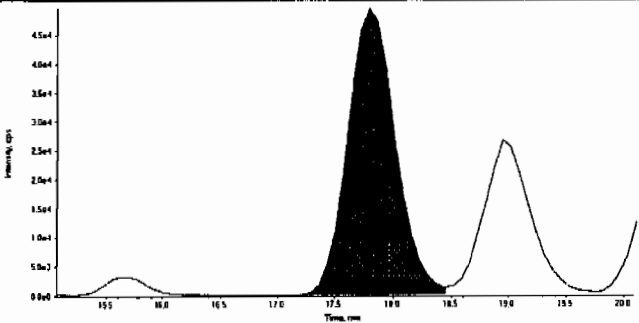


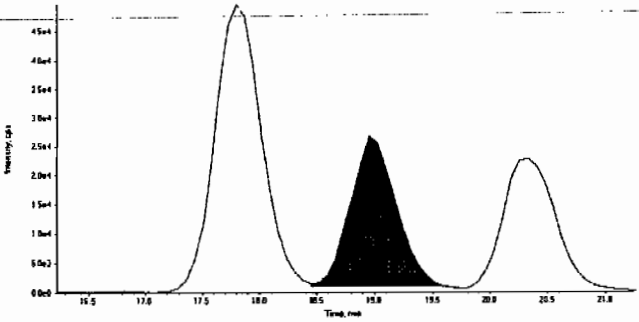
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

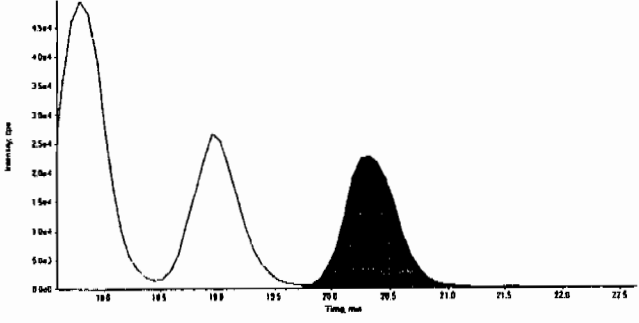
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312078.wiff	Acquisition Date	3/13/2010 5:52:15 PM
Sample Name	1202035679	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.3
	Area Counts:	2.67e+006
	Manual Modification	Yes
	Amount:	470. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.8
	Area Counts:	1.41e+006
	Manual Modification	No
	Amount:	442. (ng/mL)
	% Accuracy:	N/A

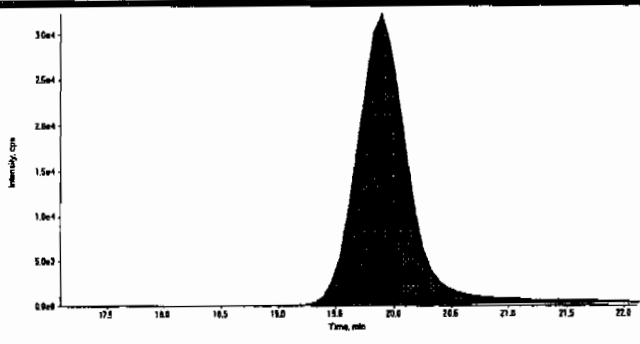
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	19.0
	Area Counts:	7.00e+005
	Manual Modification	No
	Amount:	400. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.3
	Area Counts:	7.18e+005
	Manual Modification	No
	Amount:	368. (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312078.wiff	Acquisition Date	3/13/2010 5:52:15 PM
Sample Name	1202035679	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	19.6
	Actual RT:	19.9
	Area Counts:	1.00e+006
	Manual Modification	No
	Amount:	468. (ng/mL)
	% Accuracy:	N/A

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 950080

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 1202035679

Sample Amount 2

Moisture:

Amount Units g

Date Received: 07-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010078.wiff

Date Analyzed: 02-MAR-10 05:15

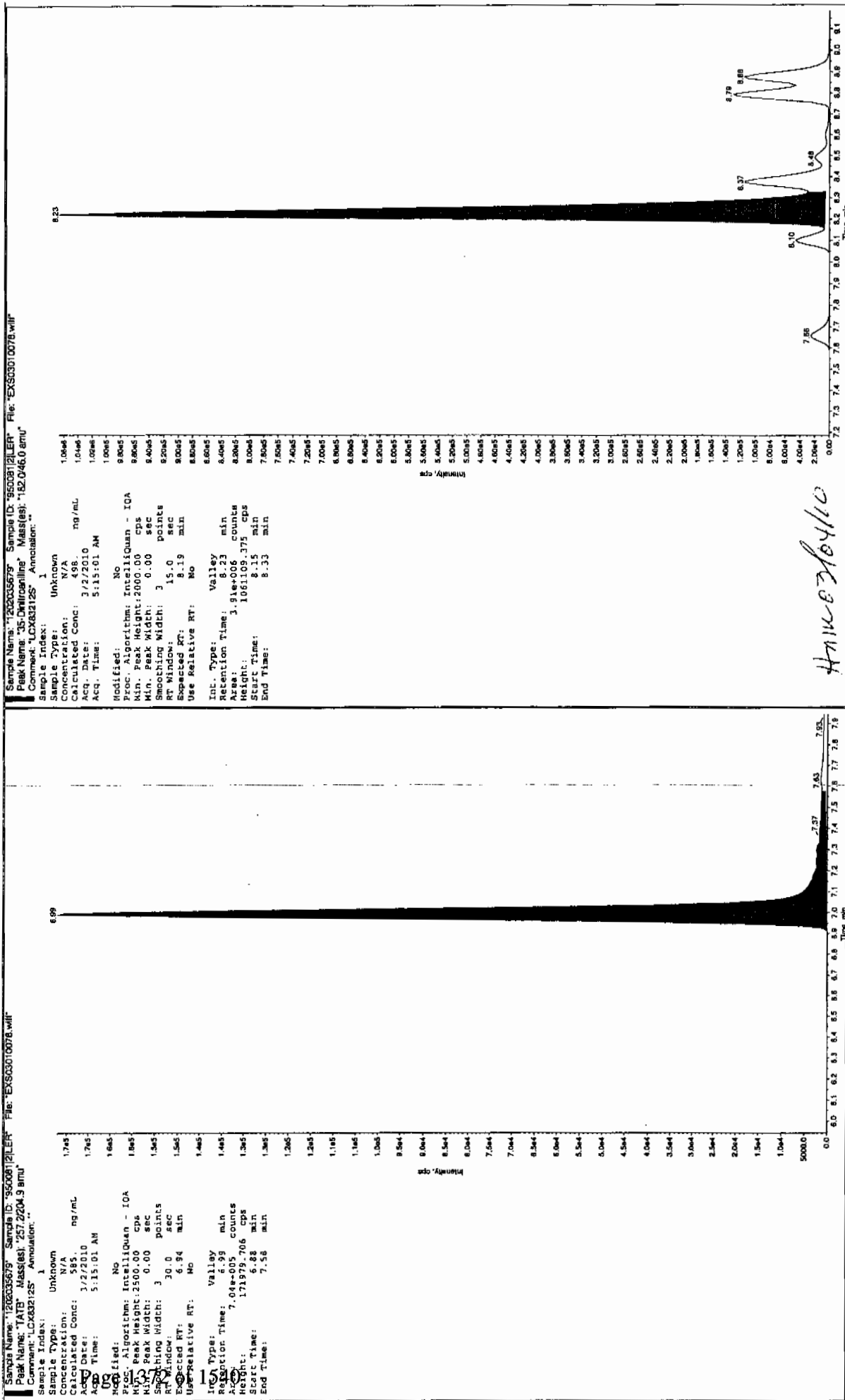
Units: ug/kg

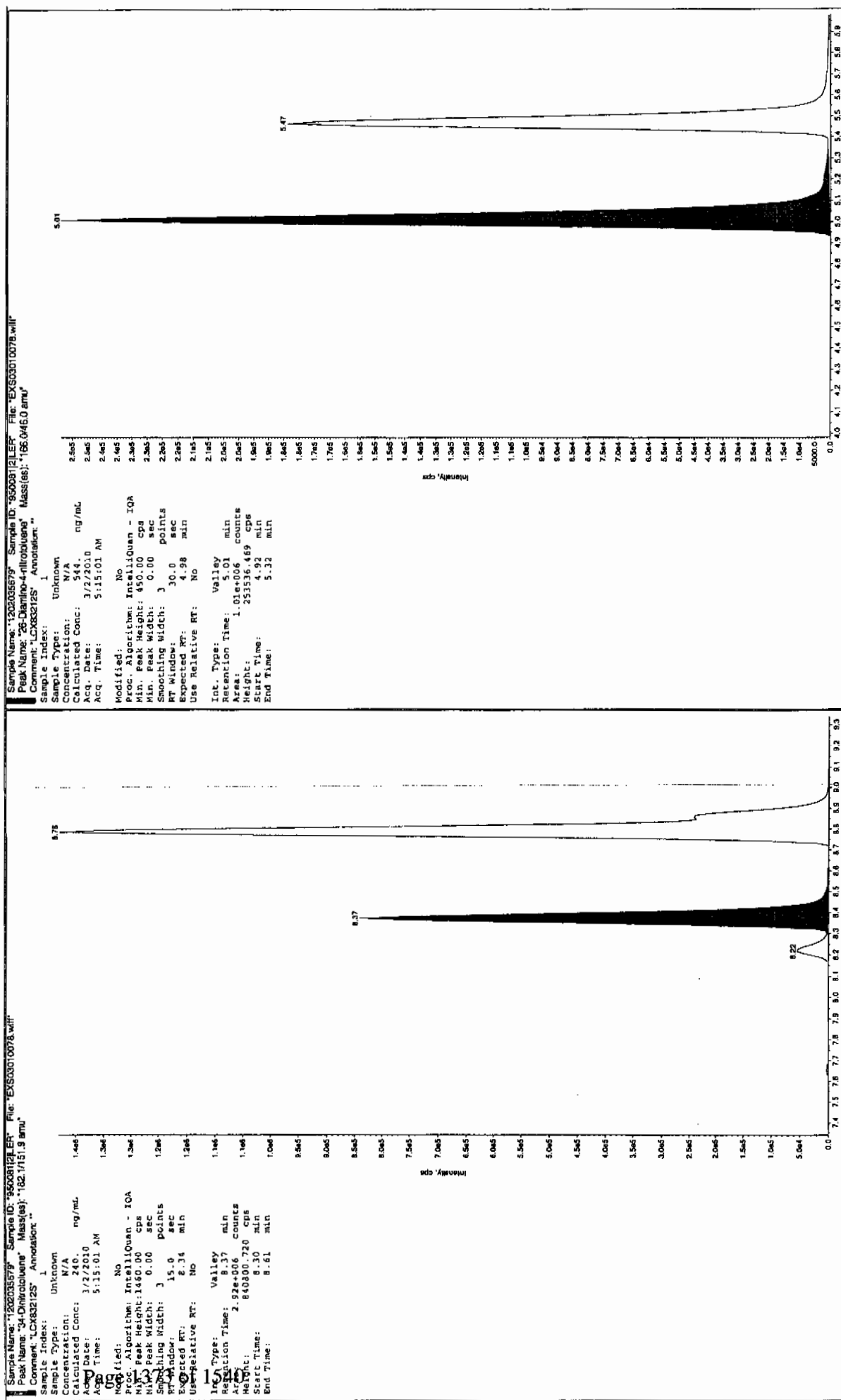
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5850	
59229-75-3	2,6-Diamino-4-nitrotoluene	5440	
618-87-1	3,5-Dinitroaniline	4980	
6629-29-4	2,4-Diamino-6-nitrotoluene	5460	
78-30-8	tris(o-cresyl) phosphate	4570	

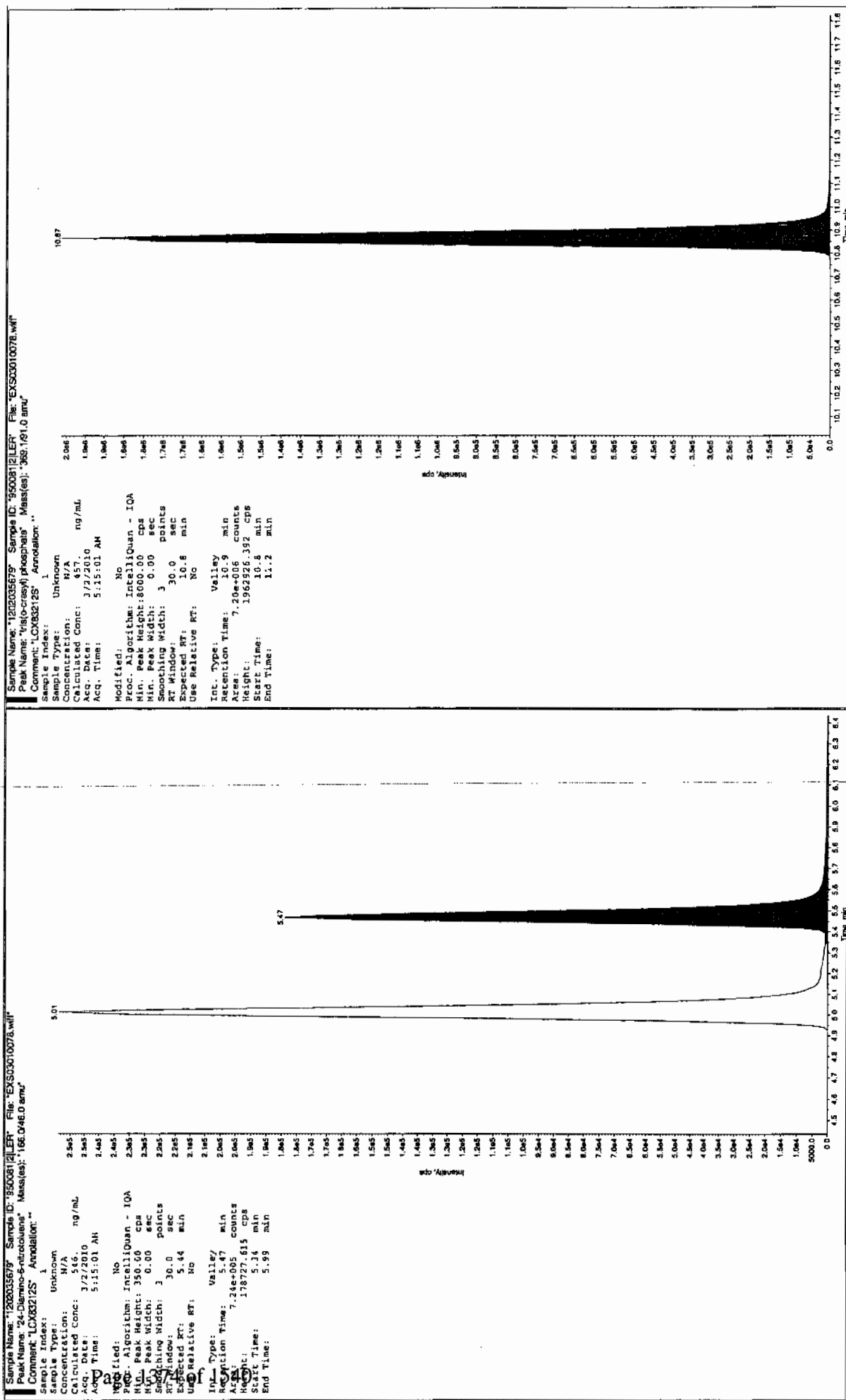
*Concentration =

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

flu 3/3/10







1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8304(246330002MS)

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 1202035680

Sample Amount 2

Moisture: 20.3

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312092.wiff

Date Analyzed: 14-MAR-10 00:02

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4230	
121-14-2	2,4-Dinitrotoluene	4690	
121-82-4	RDX	4530	
19406-51-0	4-Amino-2,6-dinitrotoluene	4850	
2691-41-0	HMX	4320	
35572-78-2	2-Amino-4,6-dinitrotoluene	4660	
479-45-8	Tetryl	3220	
606-20-2	2,6-Dinitrotoluene	4880	
78-11-5	PETN	5150	
88-72-2	o-Nitrotoluene	4500	
98-95-3	Nitrobenzene	4260	
99-08-1	m-Nitrotoluene	4750	
99-35-4	1,3,5-Trinitrobenzene	4350	
99-65-0	m-Dinitrobenzene	4680	
99-99-0	p-Nitrotoluene	4430	

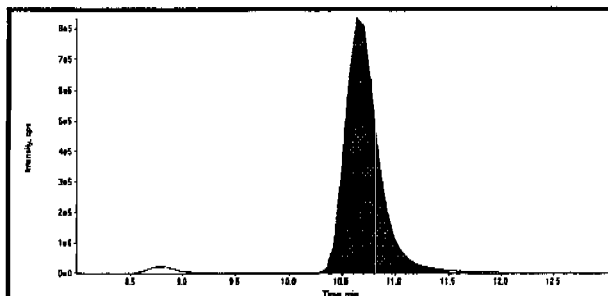
*Concentration =

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

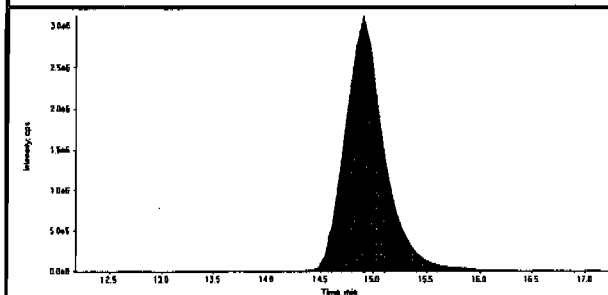
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

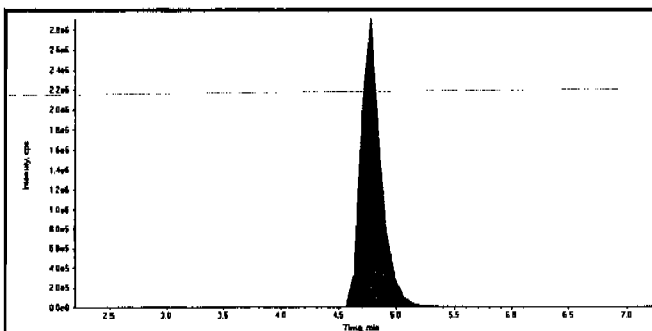
Data File	EXP0312092.wiff	Acquisition Date	3/14/2010 12:02:29 AM
Sample Name	1202035680	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



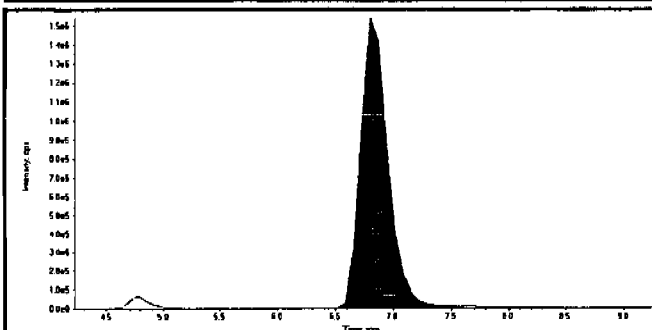
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	18200000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	81300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	3.60e+007
Manual Modification	No
Amount:	432. (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	2.60e+007
Manual Modification	No
Amount:	453. (ng/mL)
% Accuracy:	N/A

Handwritten signatures and dates:
 3/24/10
 3/24/10

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312092.wiff	Acquisition Date	3/14/2010 12:02:29 AM
Sample Name	1202035680	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.12
	Area Counts:	9.68e+007
	Manual Modification	No
	Amount:	435. (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312092.wiff	Acquisition Date	3/14/2010 12:02:29 AM
Sample Name	1202035680	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

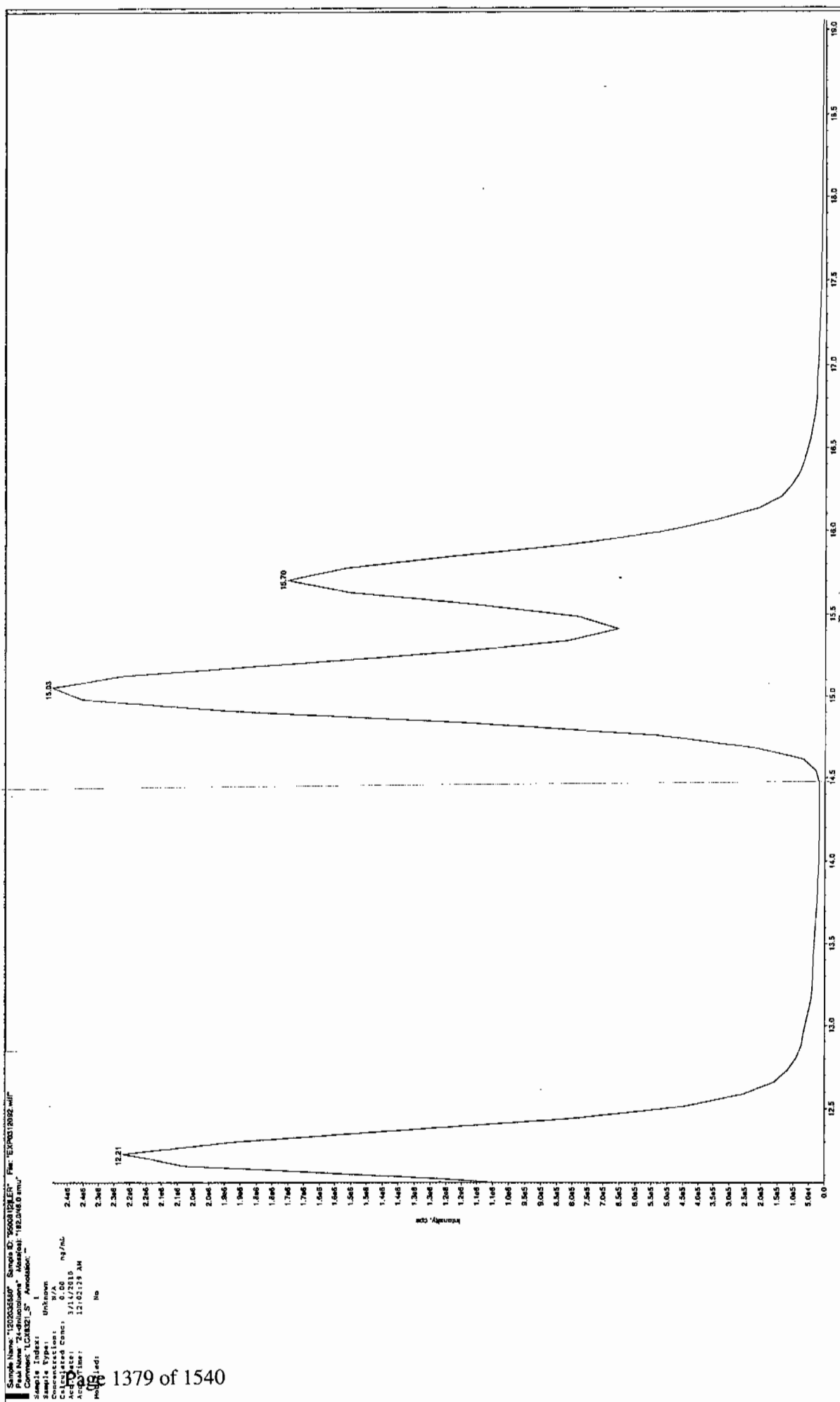
	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.8
	Area Counts:	4.57e+007
	Manual Modification	No
	Amount:	468. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.9
	Area Counts:	4.06e+007
	Manual Modification	No
	Amount:	322. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.3
	Area Counts:	1.61e+008
	Manual Modification	No
	Amount:	423. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	2.36e+006
	Manual Modification	No
	Amount:	426. (ng/mL)
	% Accuracy:	N/A

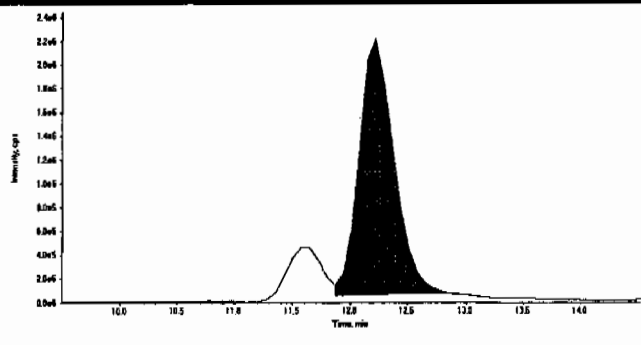
Before Jan 3/24/10

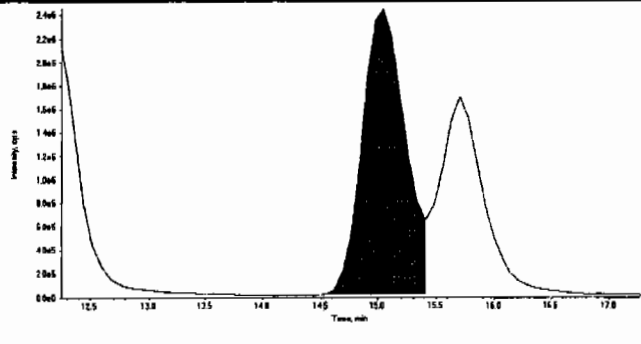


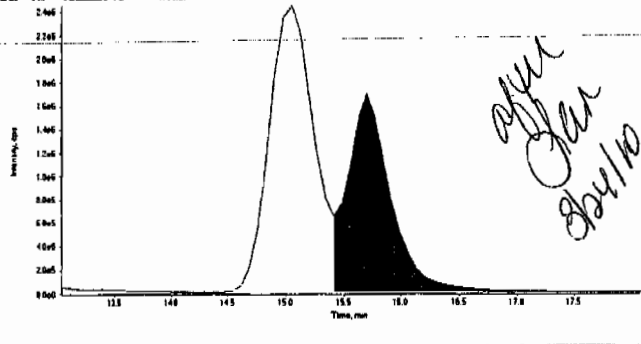
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

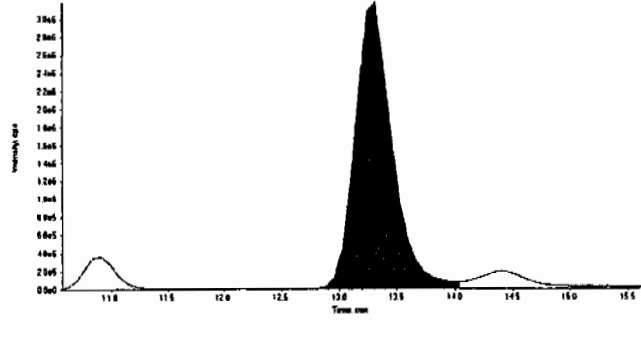
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LCMSMS#3

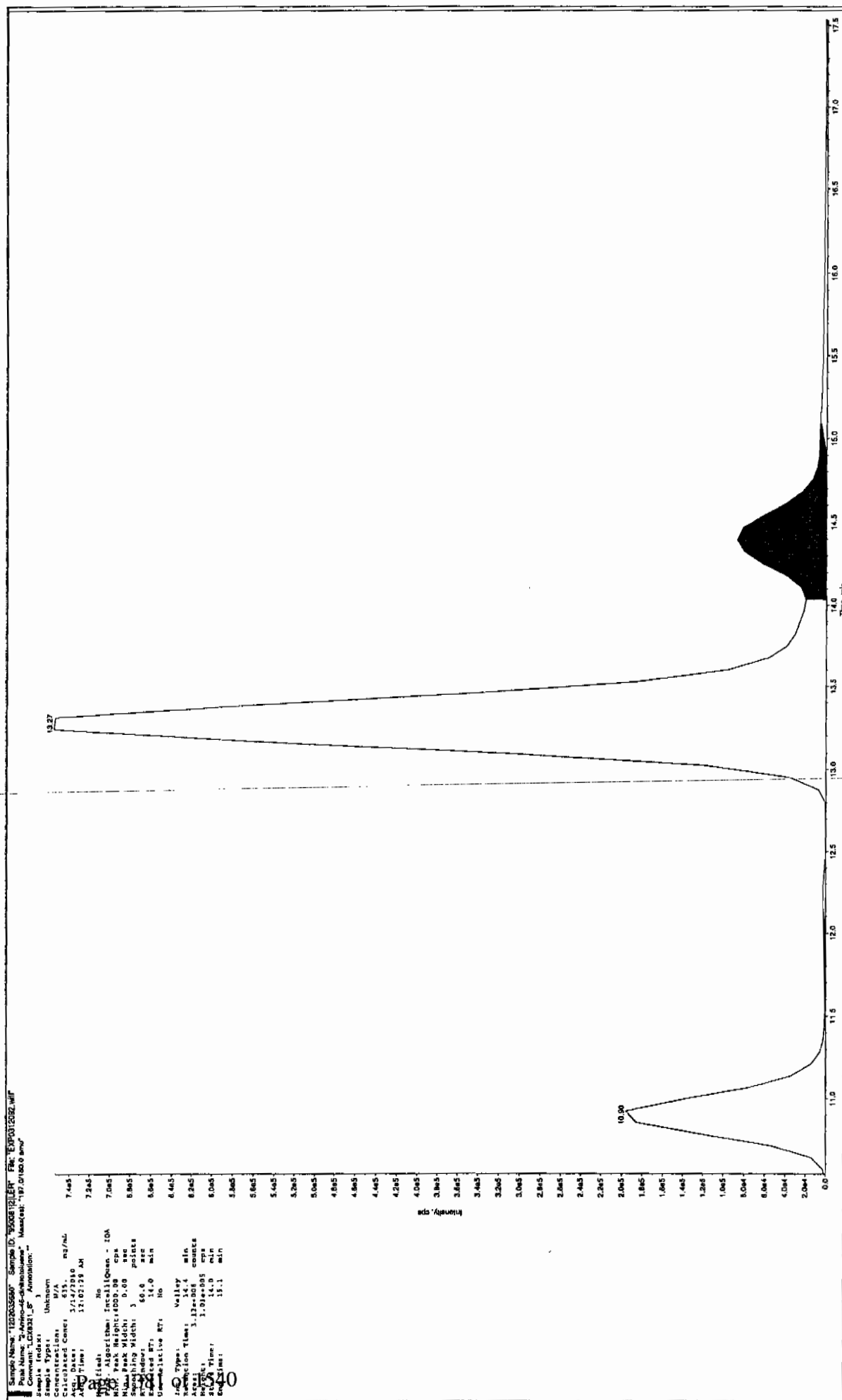
Data File	EXP0312092.wiff	Acquisition Date	3/14/2010 12:02:29 AM
Sample Name	1202035680	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	4.66e+007
	Manual Modification	No
	Amount:	232. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	15.0
	Area Counts:	6.50e+007
	Manual Modification	No
	Amount:	488. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.7
	Area Counts:	4.49e+007
	Manual Modification	Yes
	Amount:	469. (ng/mL)
	% Accuracy:	N/A

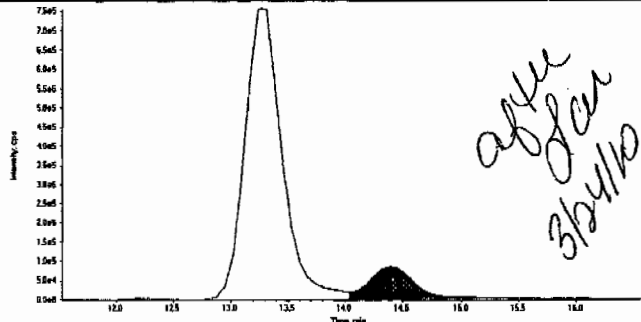
	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.3
	Area Counts:	7.35e+007
	Manual Modification	No
	Amount:	485. (ng/mL)
	% Accuracy:	N/A

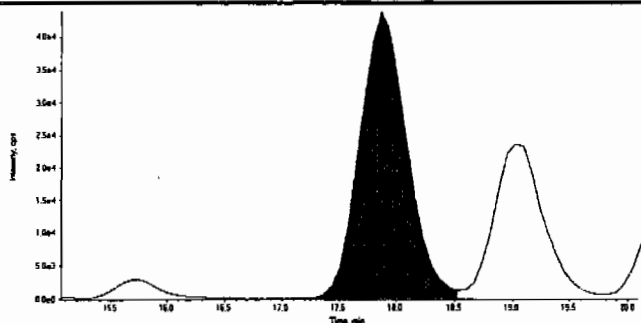


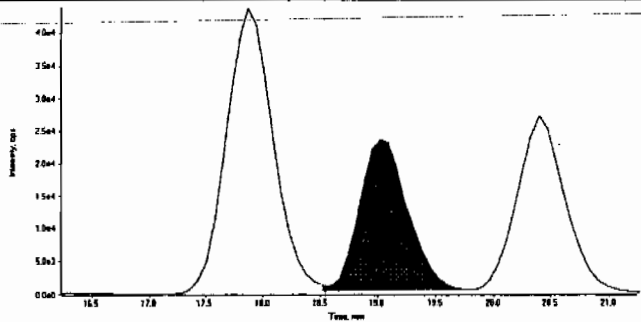
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

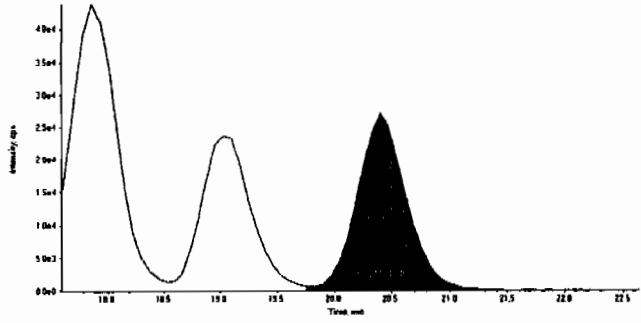
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LCMSMS#3

Data File	EXP0312092.wiff	Acquisition Date	3/14/2010 12:02:29 AM
Sample Name	1202035680	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.4
	Area Counts:	2.29e+006
	Manual Modification	Yes
	Amount:	466. (ng/mL)
	% Accuracy:	N/A

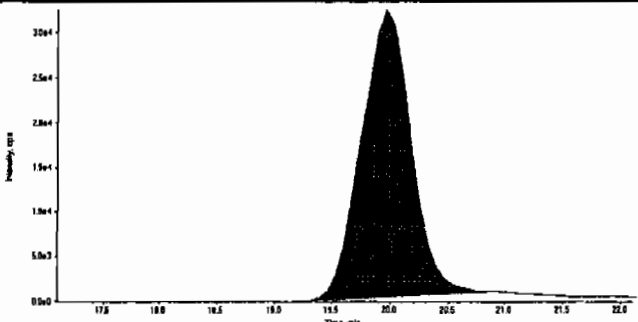
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.9
	Area Counts:	1.24e+006
	Manual Modification	No
	Amount:	450. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	19.0
	Area Counts:	6.71e+005
	Manual Modification	No
	Amount:	443. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.4
	Area Counts:	8.01e+005
	Manual Modification	No
	Amount:	475. (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312092.wiff	Acquisition Date	3/14/2010 12:02:29 AM
Sample Name	1202035680	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	20.0
		Area Counts:	9.52e+005
		Manual Modification	No
		Amount:	515. (ng/mL)
		% Accuracy:	N/A

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8304(246330002MS)

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 1202035680

Sample Amount 2

Moisture: 20.3

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010092.wiff

Date Analyzed: 02-MAR-10 08:55

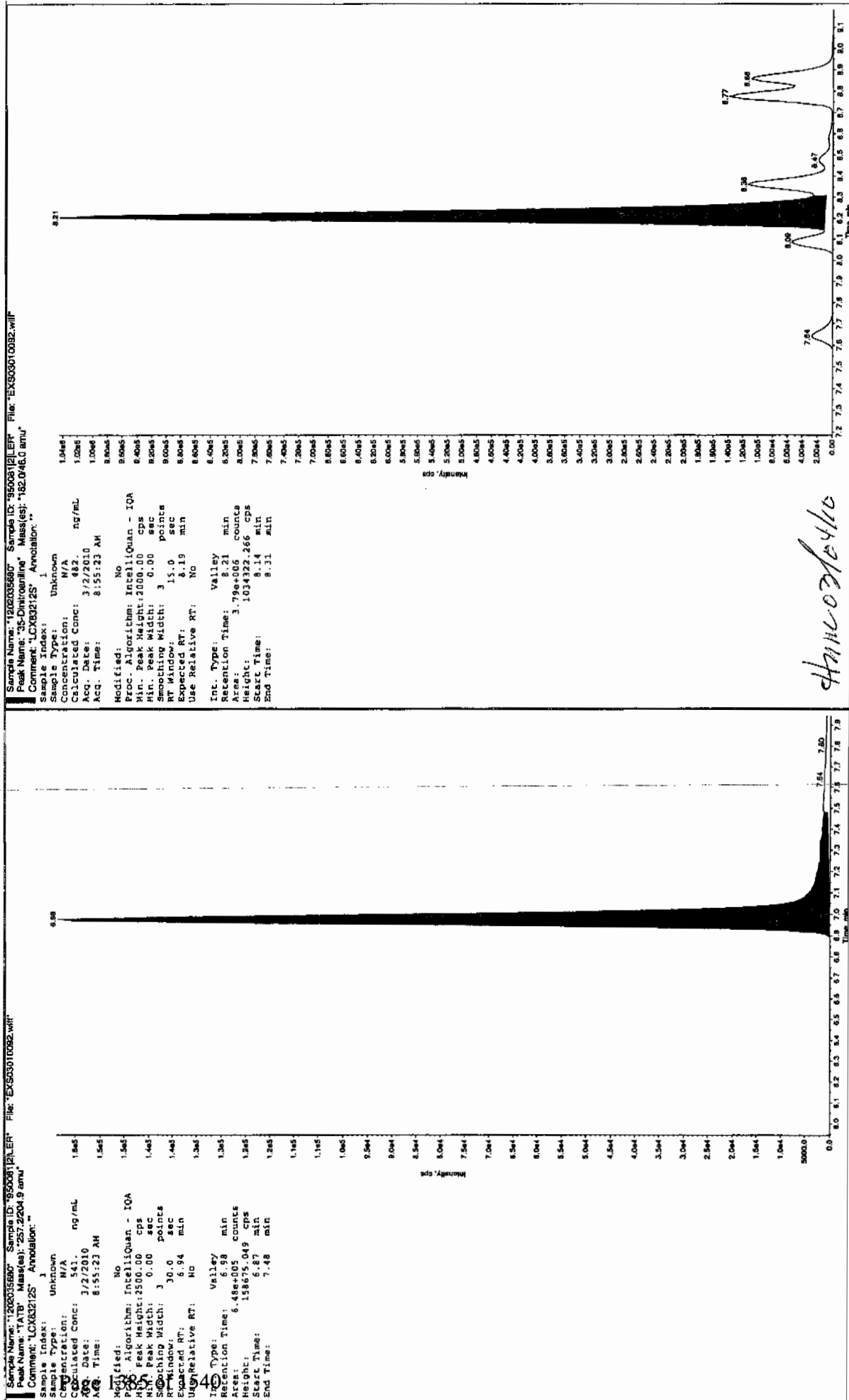
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5410	
59229-75-3	2,6-Diamino-4-nitrotoluene	5140	
618-87-1	3,5-Dinitroaniline	4820	
6629-29-4	2,4-Diamino-6-nitrotoluene	4480	
78-30-8	tris(o-cresyl) phosphate	4660	

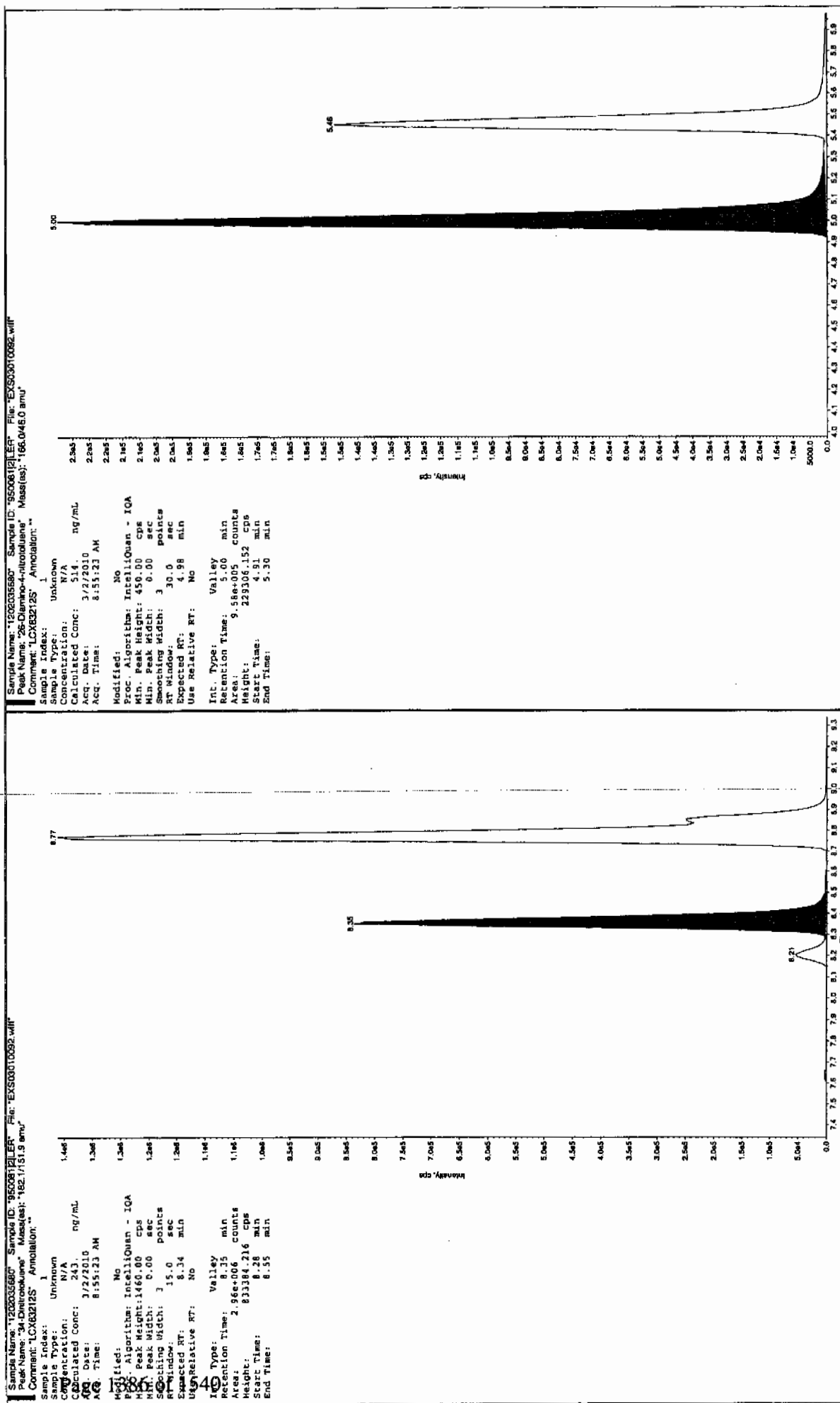
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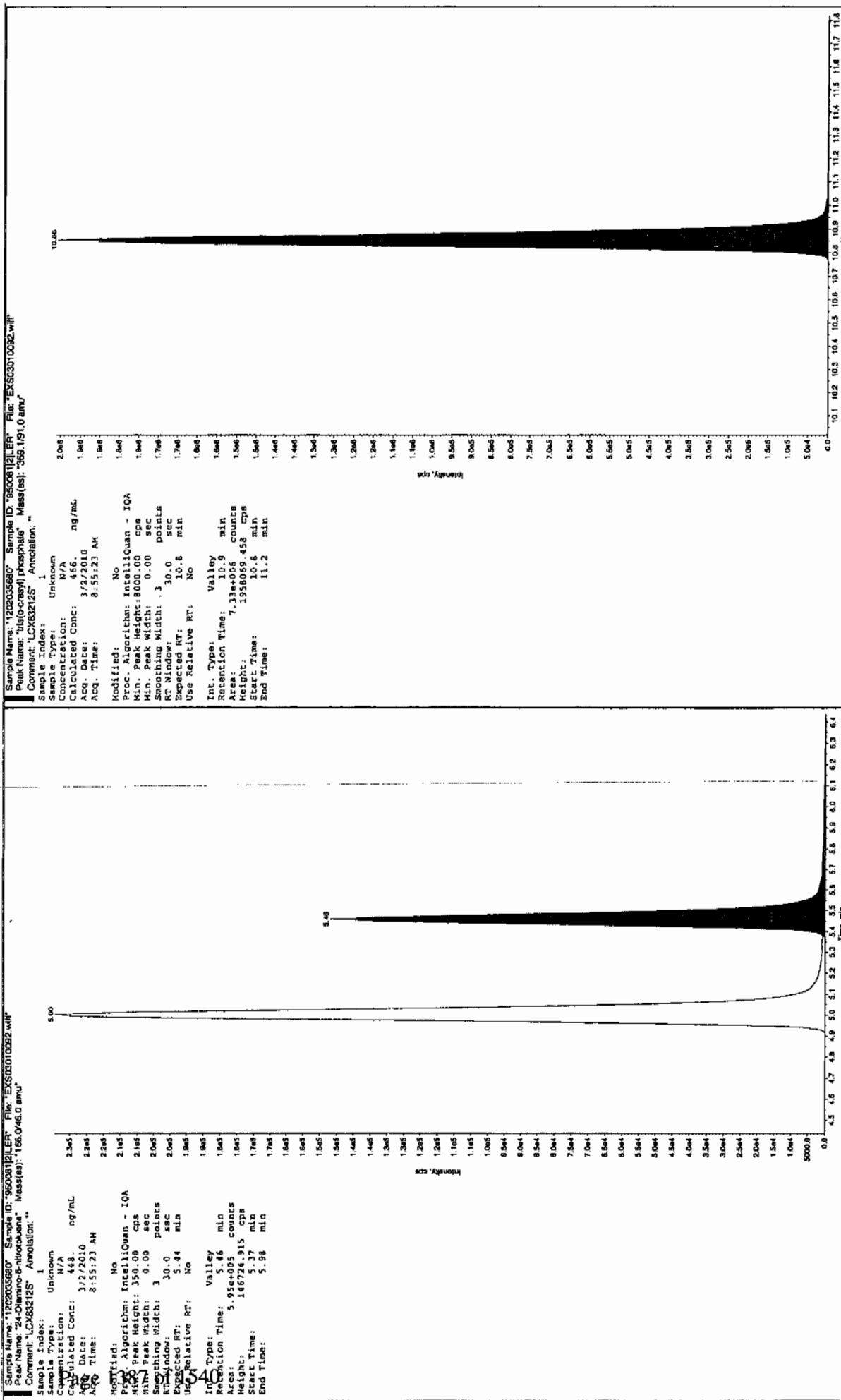
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

01/13/10
for mfg



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1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8304(246330002MSD)

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 1202035681

Sample Amount 2

Moisture: 20.3

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312093.wiff

Date Analyzed: 14-MAR-10 00:28

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4480	
121-14-2	2,4-Dinitrotoluene	4980	
121-82-4	RDX	4890	
19406-51-0	4-Amino-2,6-dinitrotoluene	5110	
2691-41-0	HMX	4670	
35572-78-2	2-Amino-4,6-dinitrotoluene	4950	
479-45-8	Tetryl	4210	
606-20-2	2,6-Dinitrotoluene	5440	
78-11-5	PETN	5320	
88-72-2	o-Nitrotoluene	4590	
98-95-3	Nitrobenzene	4770	
99-08-1	m-Nitrotoluene	4580	
99-35-4	1,3,5-Trinitrobenzene	4820	
99-65-0	m-Dinitrobenzene	5160	
99-99-0	p-Nitrotoluene	4270	

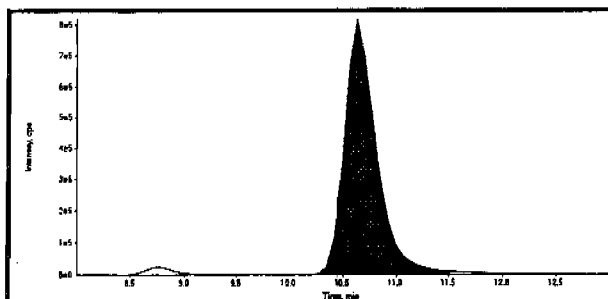
*Concentration =

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

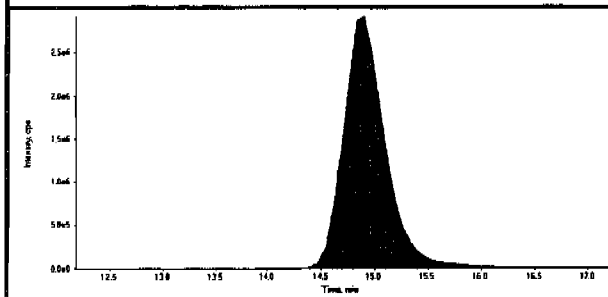
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

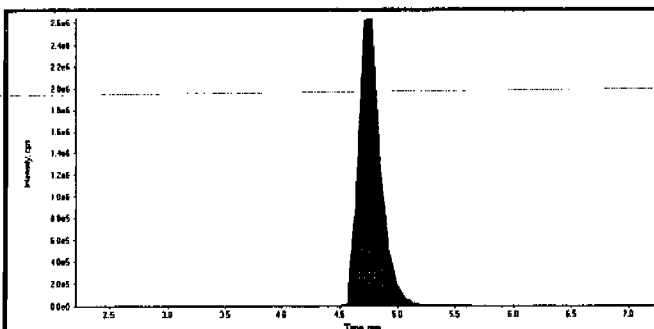
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Sample Name	1202035681	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



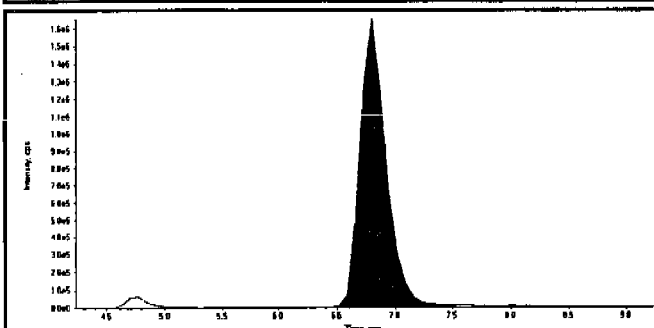
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	17000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	80200000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	3.63e+007
Manual Modification	No
Amount:	467. (ng/mL)
% Accuracy:	N/A



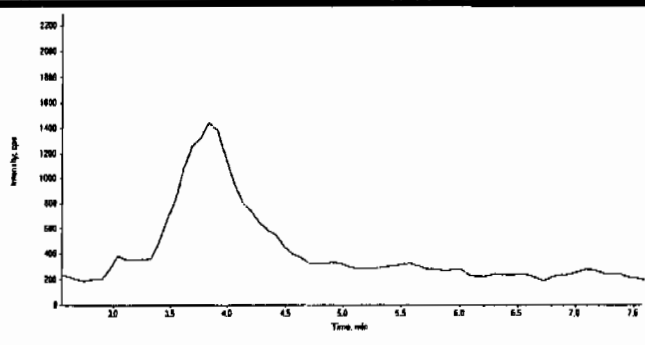
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	2.62e+007
Manual Modification	No
Amount:	489. (ng/mL)
% Accuracy:	N/A

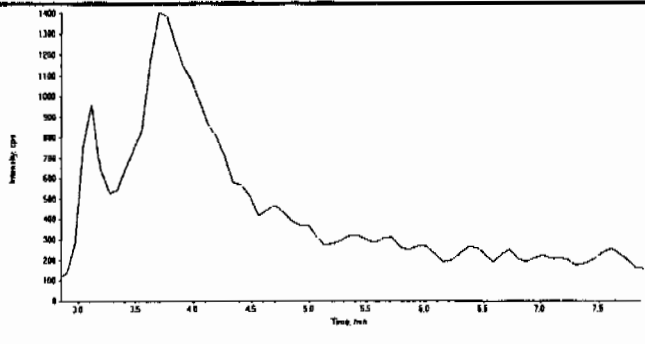
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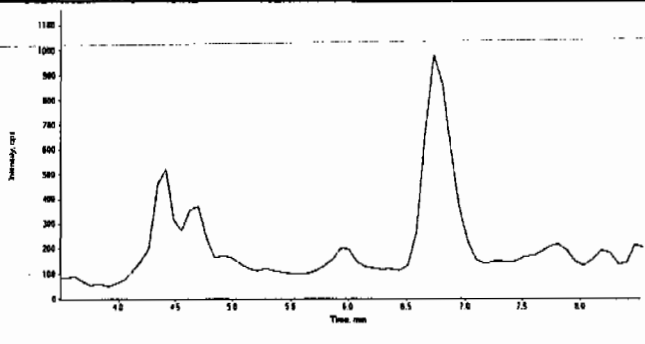
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

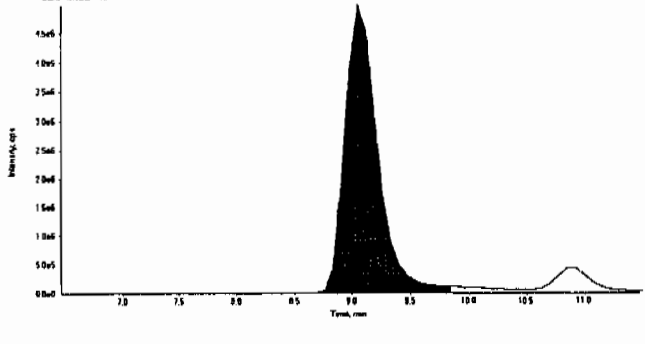
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312093.wiff	Acquisition Date	3/14/2010 12:28:46 AM
Sample Name	1202035681	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	1.00e+008
	Manual Modification	No
	Amount:	482. (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312093.wiff	Acquisition Date	3/14/2010 12:28:46 AM
Sample Name	1202035681	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

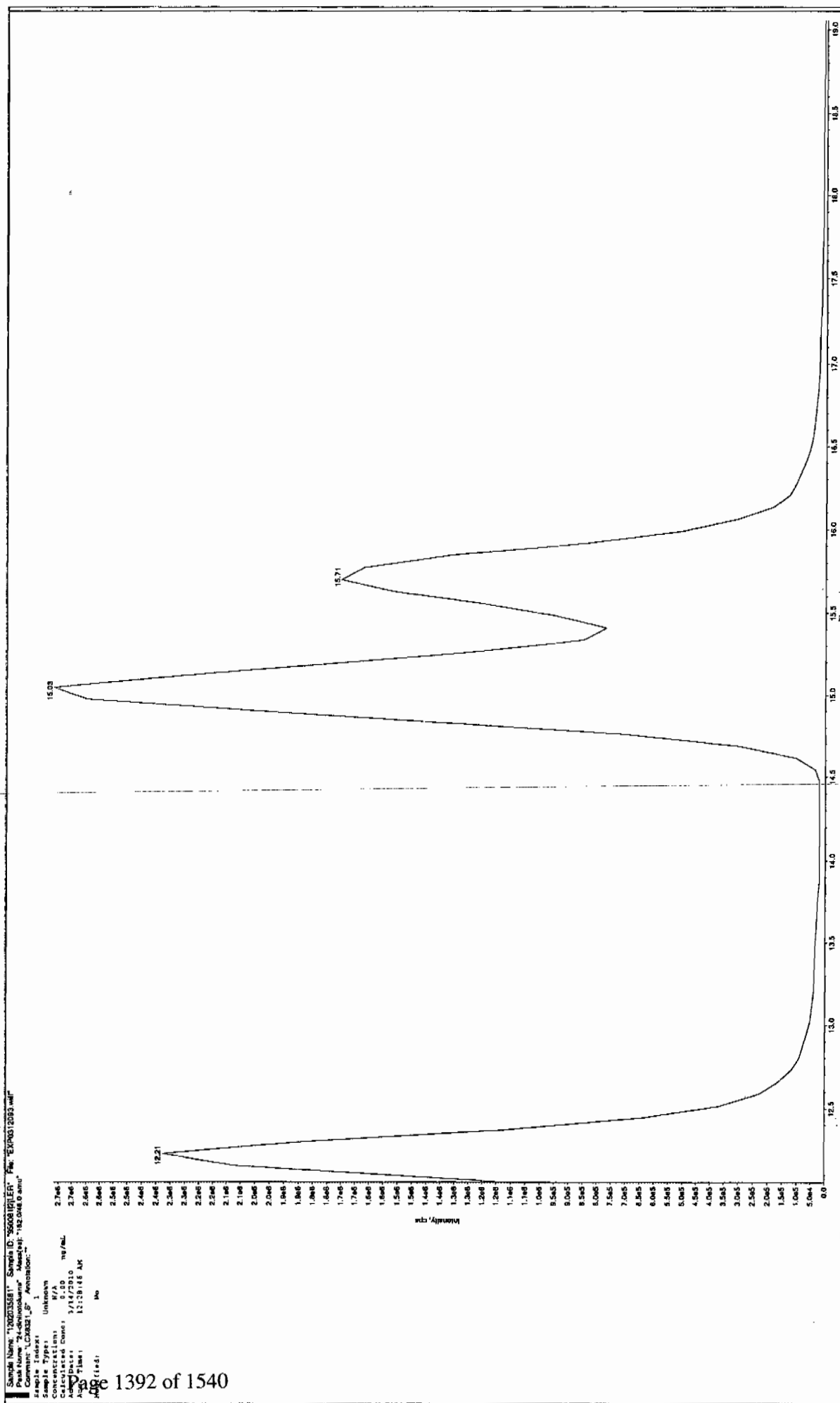
	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.8
	Area Counts:	4.71e+007
	Manual Modification	No
	Amount:	516. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.9
	Area Counts:	4.95e+007
	Manual Modification	No
	Amount:	421. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.3
	Area Counts:	1.68e+008
	Manual Modification	No
	Amount:	448. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	2.47e+006
	Manual Modification	No
	Amount:	477. (ng/mL)
	% Accuracy:	N/A

Before Dec 3/24/10



Sample Name: "10203581" Sample ID: "9600010101" File: "EXP012010.wif"
 Path: "C:\Program Files\Agilent\ChemStation\10203581" Annotation: "10203581"

Sample Index: 1
 Sample Type: Unknown
 Sample Name: "10203581"
 Sample ID: "9600010101"
 Sample Path: "C:\Program Files\Agilent\ChemStation\10203581"
 Sample Date: 1/14/2010
 Sample Time: 12:28:18 AM
 Sample Status: No

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312093.wiff	Acquisition Date	3/14/2010 12:28:46 AM
Sample Name	1202035681	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	4.54e+007
	Manual Modification	No
	Amount:	230. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	15.0
	Area Counts:	7.10e+007
	Manual Modification	No
	Amount:	544. (ng/mL)
	% Accuracy:	N/A

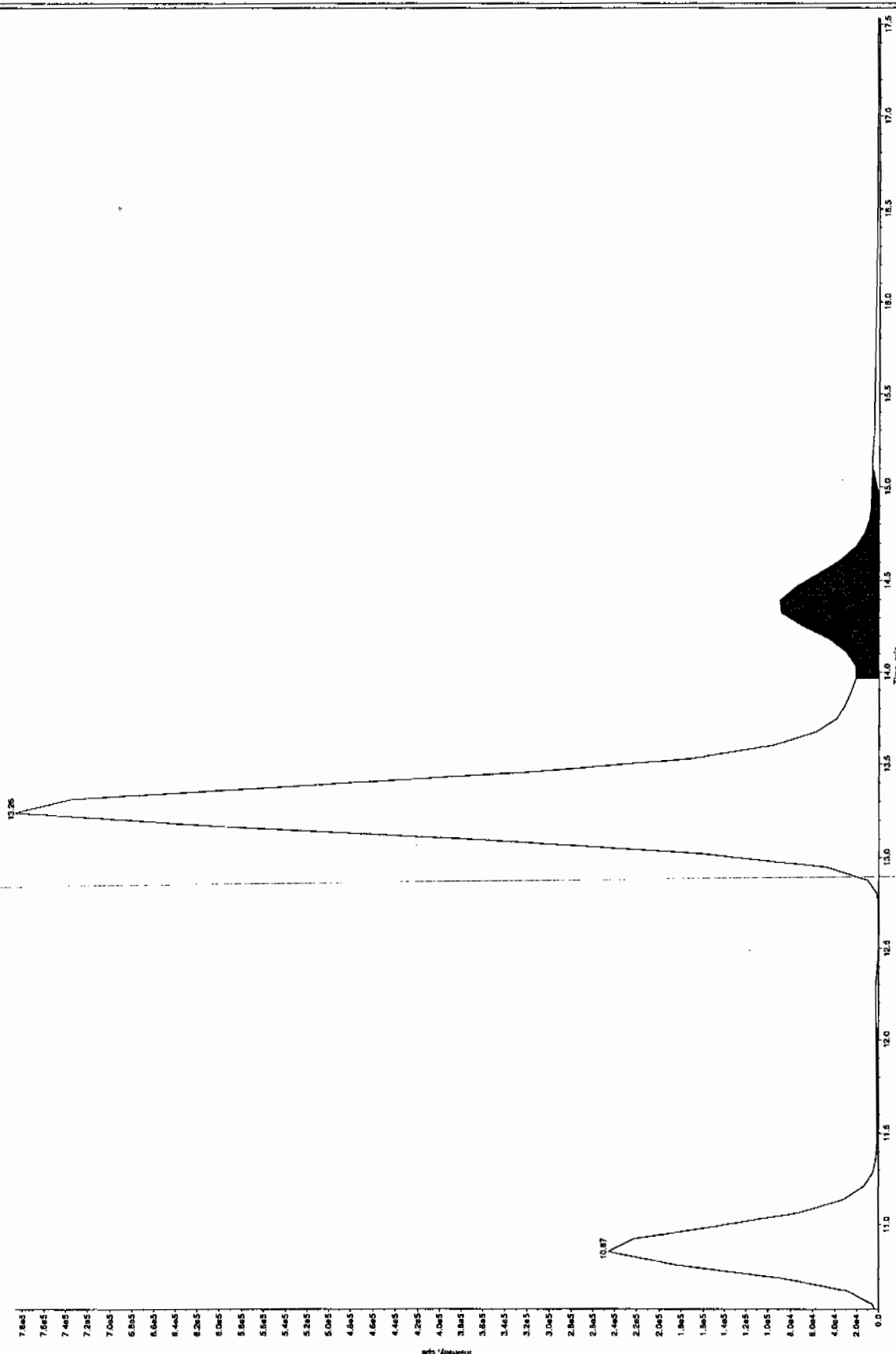
	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.7
	Area Counts:	4.70e+007
	Manual Modification	Yes
	Amount:	498. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	7.63e+007
	Manual Modification	No
	Amount:	511. (ng/mL)
	% Accuracy:	N/A

Before Dec 3/24/10

Sample Name: "120035481" Sample ID: "460041811" File: "12003 2003.ufr"
 Peak Name: "2-Amino-2,3-dimethylbutanoic acid" Mass(es): "187.071802 amu"

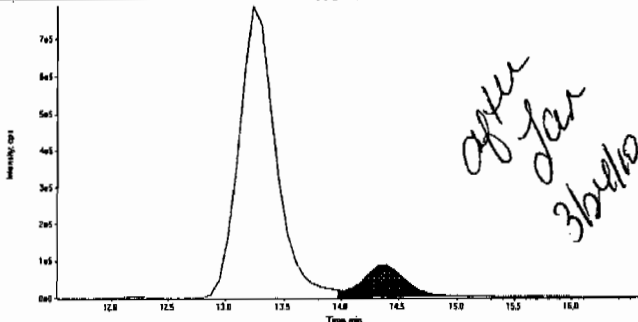
Sample Index: 1
 Sample Type: Unknown
 Concentrated: 792
 Date: 7/14/2010
 Time: 12:23:16 AM
 Method: 120035481
 Peak Width: 3.00
 Peak Height: 68.0
 Peak Area: 14.0
 Peak Type: Valley
 Retention Time: 14.4
 Mass(es): 187.071802 amu
 Peak Name: "2-Amino-2,3-dimethylbutanoic acid"
 Peak Time: 15.1

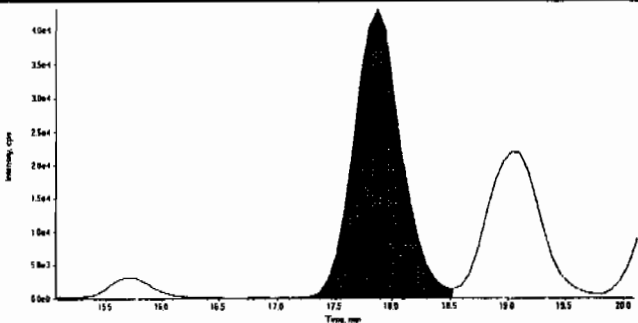


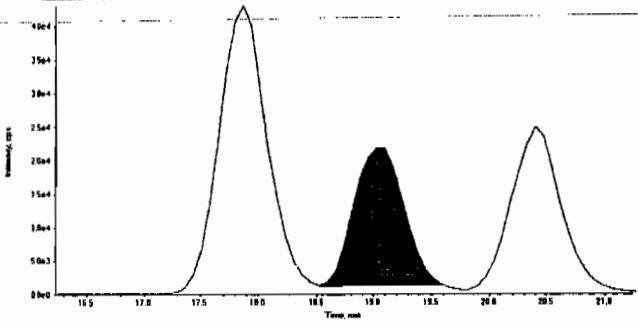
GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

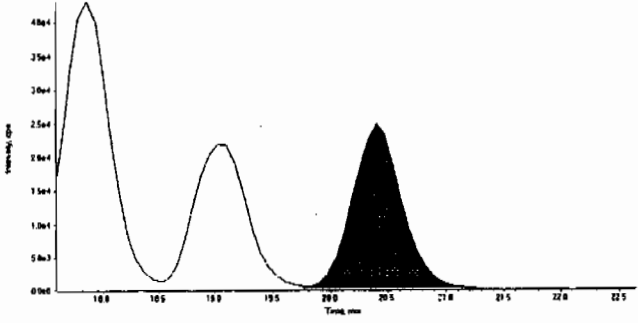
Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312093.wiff	Acquisition Date	3/14/2010 12:28:46 AM
Sample Name	1202035681	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.4
	Area Counts:	2.40e+006
	Manual Modification	Yes
	Amount:	495. (ng/mL)
	% Accuracy:	N/A

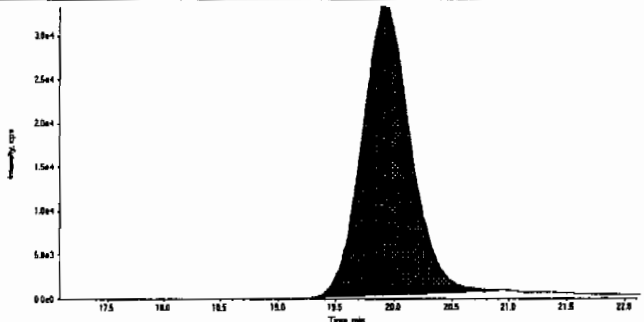
	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.9
	Area Counts:	1.25e+006
	Manual Modification	No
	Amount:	459. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	19.0
	Area Counts:	6.38e+005
	Manual Modification	No
	Amount:	427. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.4
	Area Counts:	7.61e+005
	Manual Modification	No
	Amount:	458. (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM
LCMSMS#3

Data File	EXP0312093.wiff	Acquisition Date	3/14/2010 12:28:46 AM
Sample Name	1202035681	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.9
		Area Counts:	9.69e+005
		Manual Modification	No
		Amount:	532. (ng/mL)
		% Accuracy:	N/A

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8304(246330002MSD)

Lab Code: GEL

GEL Job No (SDG) 10-1567

Matrix: SOIL

GEL Sample ID: 1202035681

Sample Amount 2

Moisture: 20.3

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010093.wiff

Date Analyzed: 02-MAR-10 09:11

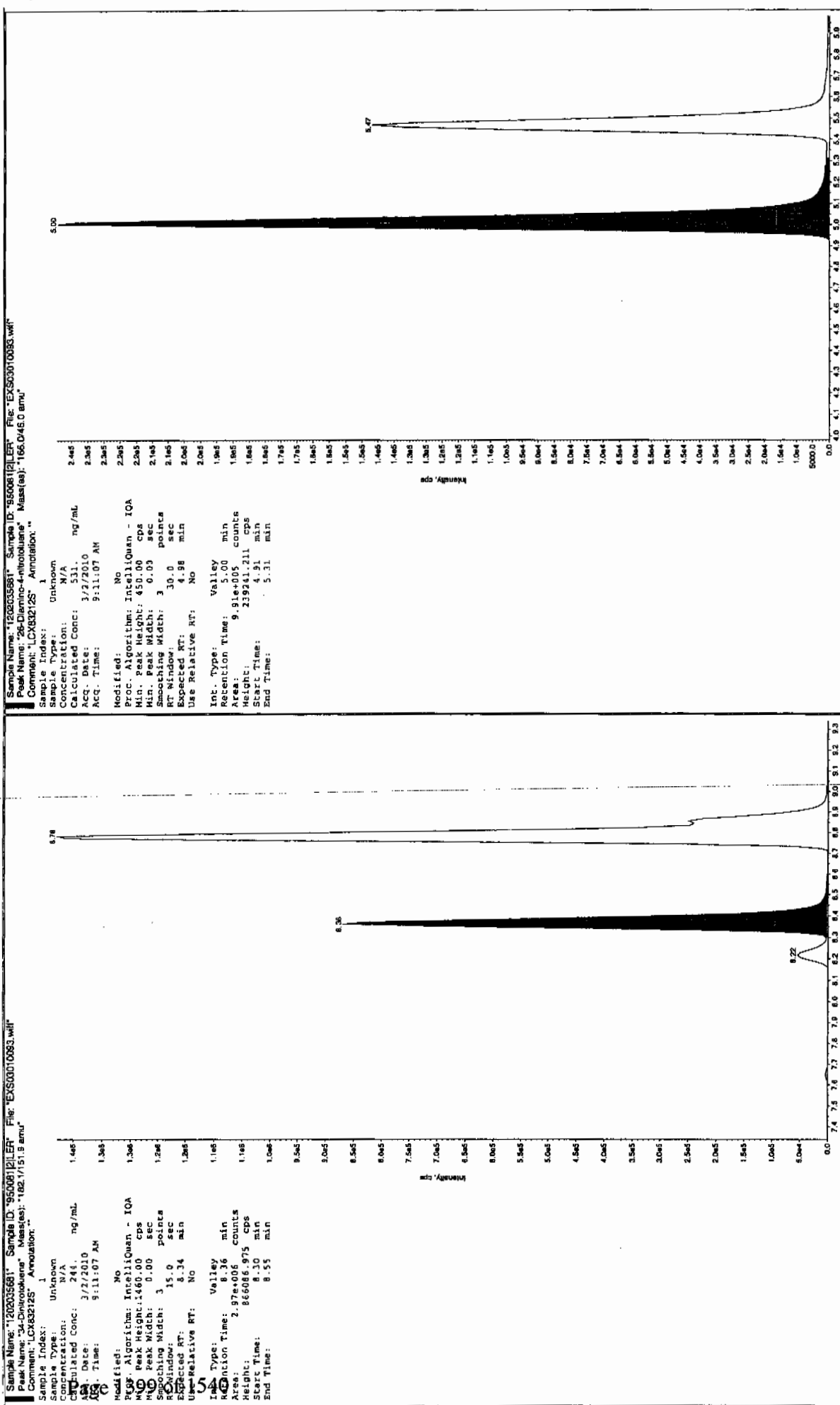
Units: ug/kg

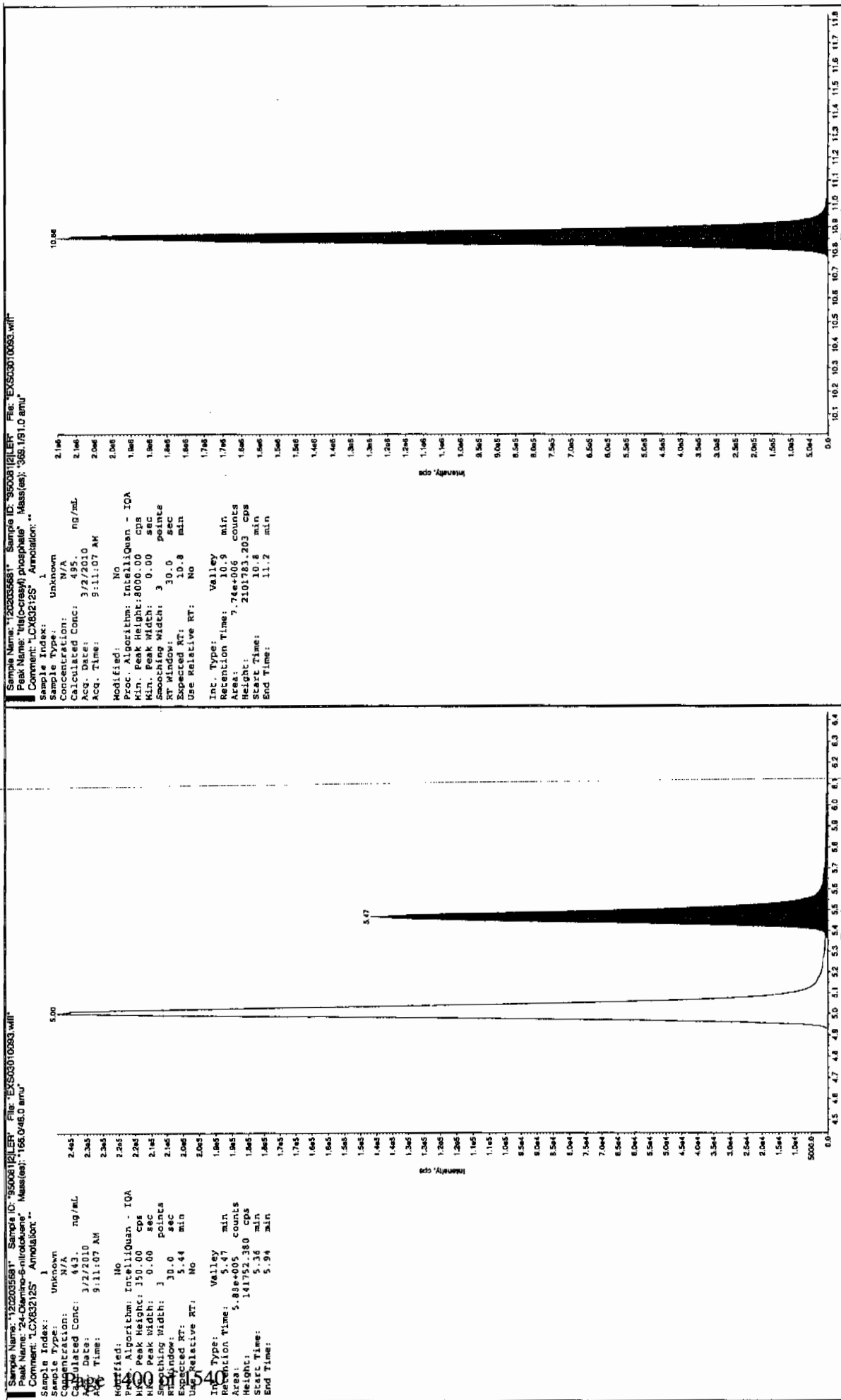
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5310	
59229-75-3	2,6-Diamino-4-nitrotoluene	5310	
618-87-1	3,5-Dinitroaniline	5000	
6629-29-4	2,4-Diamino-6-nitrotoluene	4430	
78-30-8	tris(o-cresyl) phosphate	4950	

*Concentration =

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







MISCELLANEOUS DATA

Prep Logbook

Nitroaromatics and Nitramines by High Performance Liquid Chromatography (HPLC)

Batch ID: 950080 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)
1202035678 MB	15-FEB-2010 17:15:00	2	10	5
1202035679 LCS	15-FEB-2010 17:15:00	2	10	5
246318001	15-FEB-2010 17:15:00	2	10	5
246318002	15-FEB-2010 17:15:00	2	10	5
246318003	15-FEB-2010 17:15:00	2	10	5
246318004	15-FEB-2010 17:15:00	2	10	5
246318005	15-FEB-2010 17:15:00	2	10	5
246318006	15-FEB-2010 17:15:00	2	10	5
246318007	15-FEB-2010 17:15:00	2	10	5
246318008	15-FEB-2010 17:15:00	2	10	5
246318009	15-FEB-2010 17:15:00	2	10	5
246330002	15-FEB-2010 17:15:00	2	10	5
1202035680 MS (2463300002)	15-FEB-2010 17:15:00	2	10	5
1202035681 MSD (2463300002)	15-FEB-2010 17:15:00	2	10	5
246330003	15-FEB-2010 17:15:00	2	10	5
246330004	15-FEB-2010 17:15:00	2	10	5
246330005	15-FEB-2010 17:15:00	2	10	5
246330006	15-FEB-2010 17:15:00	2	10	5
246330007	15-FEB-2010 17:15:00	2	10	5
246330008	15-FEB-2010 17:15:00	2	10	5
246330009	15-FEB-2010 17:15:00	2	10	5
246330010	15-FEB-2010 17:15:00	2	10	5

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments
LCS	1202035679	8321 Explosives LCS	DXC100208-03	.1	mL	Final Solvent: ACN
LCS	1202035679	8321 LANL Explosives Mix 10mg/L	UXX100210-02.1	.1	mL	
MS	1202035680	8321 Explosives LCS	DXC100208-03	.1	mL	
MS	1202035680	8321 LANL Explosives Mix 10mg/L	UXX100210-02.1	.1	mL	
MSD	1202035681	8321 Explosives LCS	DXC100208-03	.1	mL	
MSD	1202035681	8321 LANL Explosives Mix 10mg/L	UXX100210-02.1	.1	mL	
SURR	All	3,4-Dinitrofluorene (8330 Sur.) 100ppm	DXP100210-02	.05	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#3

Date: 03/12/10
 Extr. Injection Volume: 10uL
 Sequence Number: 031210
 Initial Calibration Date: 031210

Method: 8321A-Modified
 Int. Std.: UXX100220-02.1
 Mobile Phase Lot#: 1277087, 1268566
 Standard-Samp Reagent Lot#: 1274562, 1054171

Reviewed BY: *hmc*
 Date: *03/24/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100312-56

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXP0312001.wiff	XIBLK01	LER	3/12/2010 7:58			1		USE	B
EXP0312002.wiff	XIBLK01	LER	3/12/2010 8:25			1		USE	B
EXP0312003.wiff	WXXICAL-50	LER	3/12/2010 8:51			1		USE	I
EXP0312004.wiff	WXXICAL-51	LER	3/12/2010 9:18			1		USE	I
EXP0312005.wiff	WXXICAL-52	LER	3/12/2010 9:44			1		USE	I
EXP0312006.wiff	WXXICAL-53	LER	3/12/2010 10:10			1		USE	I
EXP0312007.wiff	WXXICAL-54	LER	3/12/2010 10:37			1		USE	I
EXP0312008.wiff	WXXICAL-55	LER	3/12/2010 11:03			1		USE	I
EXP0312009.wiff	XIBLK02	LER	3/12/2010 11:29			1		USE	B
EXP0312010.wiff	WXXICV	LER	3/12/2010 11:56			1		USE	C
EXP0312011.wiff	XIBLK03	LER	3/12/2010 12:22			1		USE	B
EXP0312012.wiff	WXXCRI	LER	3/12/2010 12:49			1		USE	C
EXP0312013.wiff	245725004	LER	3/12/2010 13:15			1	PNTX	USE	S
EXP0312014.wiff	XIBLK04	LER	3/12/2010 13:41	946710	245725	200		USE	B
EXP0312015.wiff	245930002	LER	3/12/2010 14:08	947933	245930	200	PNTX	USE	S
EXP0312016.wiff	XIBLK05	LER	3/12/2010 14:34			1		USE	B
EXP0312017.wiff	245930003	LER	3/12/2010 15:00	947933	245930	200	PNTX	USE	S
EXP0312018.wiff	245930003	LER	3/12/2010 15:27	947933	245930	2		USE	S
EXP0312019.wiff	XIBLK06	LER	3/12/2010 15:53			1		USE	B
EXP0312020.wiff	245930004	LER	3/12/2010 16:20	947933	245930	200	PNTX	USE	S
EXP0312021.wiff	245930004	LER	3/12/2010 16:46	947933	245930	2	PNTX	USE	S
EXP0312022.wiff	WXXCCV	LER	3/12/2010 17:13			1		USE	C
EXP0312023.wiff	XIBLK07	LER	3/12/2010 17:39			1		USE	B
EXP0312024.wiff	WXXCRI	LER	3/12/2010 18:05			1		USE	C
EXP0312025.wiff	1202040477	LER	3/12/2010 18:32	952051	VARIOUS	2	LANL	USE	S
EXP0312026.wiff	1202040478	LER	3/12/2010 18:58	952051	VARIOUS	2	LANL	USE	S
EXP0312027.wiff	246732002	LER	3/12/2010 19:25	952051	10-1742	2	LANL	USE	S
EXP0312028.wiff	246732003	LER	3/12/2010 19:51	952051	10-1742	2	LANL	USE	S
EXP0312029.wiff	246732004	LER	3/12/2010 20:17	952051	10-1742	2	LANL	USE	S

EXP0312030.wiff	246732005	LER	3/12/2010 20:44	952051	10-1742	2	LANL	USE	S
EXP0312031.wiff	246732006	LER	3/12/2010 21:10	952051	10-1742	2	LANL	USE	S
EXP0312032.wiff	246744002	LER	3/12/2010 21:36	952051	10-1736	2	LANL	USE	S
EXP0312033.wiff	1202040479	LER	3/12/2010 22:03	952051	10-1736	2	LANL	USE	S
EXP0312034.wiff	1202040480	LER	3/12/2010 22:29	952051	10-1736	2	LANL	USE	S
EXP0312035.wiff	WXXCCV	LER	3/12/2010 22:56			1		USE	C
EXP0312036.wiff	XIBLK08	LER	3/12/2010 23:22			1		USE	B
EXP0312037.wiff	WXXCRI	LER	3/12/2010 23:49			1		USE	C
EXP0312038.wiff	246744003	LER	3/13/2010 0:15	952051	10-1736	2	LANL	USE	S
EXP0312039.wiff	246744004	LER	3/13/2010 0:41	952051	10-1736	2	LANL	USE	S
EXP0312040.wiff	246752002	LER	3/13/2010 1:08	952051	10-1745	2	LANL	USE	S
EXP0312041.wiff	246752003	LER	3/13/2010 1:34	952051	10-1745	2	LANL	USE	S
EXP0312042.wiff	246760001	LER	3/13/2010 2:01	952051	10-1739	2	LANL	USE	S
EXP0312043.wiff	246760002	LER	3/13/2010 2:27	952051	10-1739	2	LANL	USE	S
EXP0312044.wiff	246760003	LER	3/13/2010 2:53	952051	10-1739	2	LANL	USE	S
EXP0312045.wiff	246760004	LER	3/13/2010 3:20	952051	10-1739	2	LANL	USE	S
EXP0312046.wiff	246760005	LER	3/13/2010 3:46	952051	10-1739	2	LANL	USE	S
EXP0312047.wiff	246760006	LER	3/13/2010 4:13	952051	10-1739	2	LANL	USE	S
EXP0312048.wiff	WXXCCV	LER	3/13/2010 4:39			1		USE	C
EXP0312049.wiff	XIBLK09	LER	3/13/2010 5:06			1		USE	B
EXP0312050.wiff	WXXCRI	LER	3/13/2010 5:32			1		USE	C
EXP0312051.wiff	246760007	LER	3/13/2010 5:58	952051	10-1739	2	LANL	USE	S
EXP0312052.wiff	246760008	LER	3/13/2010 6:25	952051	10-1739	2	LANL	USE	S
EXP0312053.wiff	246760009	LER	3/13/2010 6:51	952051	10-1739	2	LANL	USE	S
EXP0312054.wiff	246760010	LER	3/13/2010 7:17	952051	10-1739	2	LANL	USE	S
EXP0312055.wiff	XIBLK10	LER	3/13/2010 7:44			1		USE	B
EXP0312056.wiff	1202041915	LER	3/13/2010 8:10	952684	10-1752-1	2	LANL	USE	S
EXP0312057.wiff	1202041916	LER	3/13/2010 8:37	952684	10-1752-1	2	LANL	USE	S
EXP0312058.wiff	246851001	LER	3/13/2010 9:03	952684	10-1752-1	2	LANL	USE	S
EXP0312059.wiff	1202041917	LER	3/13/2010 9:30	952684	10-1752-1	2	LANL	USE	S
EXP0312060.wiff	1202041918	LER	3/13/2010 9:56	952684	10-1752-1	2	LANL	USE	S
EXP0312061.wiff	WXXCCV	LER	3/13/2010 10:22			1		USE	C
EXP0312062.wiff	XIBLK11	LER	3/13/2010 10:49			1		USE	B
EXP0312063.wiff	WXXCRI	LER	3/13/2010 11:15			1		USE	C
EXP0312064.wiff	246851002	LER	3/13/2010 11:42	952684	10-1752-1	2	LANL	USE	S
EXP0312065.wiff	246851003	LER	3/13/2010 12:08	952684	10-1752-1	2	LANL	USE	S
EXP0312066.wiff	246851004	LER	3/13/2010 12:34	952684	10-1752-1	2	LANL	USE	S

EXP0312067.wiff	246851005	LER	3/13/2010 13:01	952684	10-1752-1	2	LANL	USE	S
EXP0312068.wiff	246851006	LER	3/13/2010 13:27	952684	10-1752-1	2	LANL	USE	S
EXP0312069.wiff	246851007	LER	3/13/2010 13:54	952684	10-1752-1	2	LANL	USE	S
EXP0312070.wiff	246851008	LER	3/13/2010 14:20	952684	10-1752-1	2	LANL	USE	S
EXP0312071.wiff	246851009	LER	3/13/2010 14:47	952684	10-1752-1	2	LANL	USE	S
EXP0312072.wiff	246851010	LER	3/13/2010 15:13	952684	10-1752-1	2	LANL	USE	S
EXP0312073.wiff	246851011	LER	3/13/2010 15:39	952684	10-1752-1	2	LANL	USE	S
EXP0312074.wiff	WXXCCV	LER	3/13/2010 16:06			1		USE	C
EXP0312075.wiff	XIBLK12	LER	3/13/2010 16:32			1		USE	B
EXP0312076.wiff	WXXCRI	LER	3/13/2010 16:59			1		USE	C
EXP0312077.wiff	1202035678	LER	3/13/2010 17:25	950081	VARIOUS	2	LANL	USE	S
EXP0312078.wiff	1202035679	LER	3/13/2010 17:52	950081	VARIOUS	2	LANL	USE	S
EXP0312079.wiff	246318001	LER	3/13/2010 18:18	950081	10-1564	2	LANL	USE	S
EXP0312080.wiff	246318002	LER	3/13/2010 18:45	950081	10-1564	2	LANL	USE	S
EXP0312081.wiff	246318003	LER	3/13/2010 19:11	950081	10-1564	2	LANL	USE	S
EXP0312082.wiff	246318004	LER	3/13/2010 19:37	950081	10-1564	2	LANL	USE	S
EXP0312083.wiff	246318005	LER	3/13/2010 20:04	950081	10-1564	2	LANL	USE	S
EXP0312084.wiff	246318006	LER	3/13/2010 20:30	950081	10-1564	2	LANL	USE	S
EXP0312085.wiff	246318007	LER	3/13/2010 20:57	950081	10-1564	2	LANL	USE	S
EXP0312086.wiff	246318008	LER	3/13/2010 21:23	950081	10-1564	2	LANL	USE	S
EXP0312087.wiff	WXXCCV	LER	3/13/2010 21:50			1		USE	C
EXP0312088.wiff	XIBLK13	LER	3/13/2010 22:16			1		USE	B
EXP0312089.wiff	WXXCRI	LER	3/13/2010 22:43			1		USE	C
EXP0312090.wiff	246318009	LER	3/13/2010 23:09	950081	10-1564	2	LANL	USE	S
EXP0312091.wiff	246330002	LER	3/13/2010 23:36	950081	10-1567	2	LANL	USE	S
EXP0312092.wiff	1202035680	LER	3/14/2010 0:02	950081	10-1567	2	LANL	USE	S
EXP0312093.wiff	1202035681	LER	3/14/2010 0:28	950081	10-1567	2	LANL	USE	S
EXP0312094.wiff	246330003	LER	3/14/2010 0:55	950081	10-1567	2	LANL	USE	S
EXP0312095.wiff	246330004	LER	3/14/2010 1:21	950081	10-1567	2	LANL	USE	S
EXP0312096.wiff	246330005	LER	3/14/2010 1:48	950081	10-1567	2	LANL	USE	S
EXP0312097.wiff	246330006	LER	3/14/2010 3:14	950081	10-1567	2	LANL	USE	S
EXP0312098.wiff	246330007	LER	3/14/2010 3:41	950081	10-1567	2	LANL	USE	S
EXP0312099.wiff	WXXCCV	LER	3/14/2010 4:07			1		USE	C
EXP0312100.wiff	XIBLK14	LER	3/14/2010 4:34			1		USE	B
EXP0312101.wiff	WXXCRI	LER	3/14/2010 5:00			1		USE	C
EXP0312102.wiff	246330008	LER	3/14/2010 5:26	950081	10-1567	2	LANL	USE	S
EXP0312103.wiff	246330009	LER	3/14/2010 5:53	950081	10-1567	2	LANL	USE	S

EXP0312104.wiff	246330010	LER	3/14/2010 6:19	950081	10-1567	2	LANL	USE	S
EXP0312105.wiff	XIBLK15	LER	3/14/2010 6:46			1		USE	B
EXP0312106.wiff	1202041927	LER	3/14/2010 7:12	952690	10-1755	2	LANL	USE	S
EXP0312107.wiff	1202041928	LER	3/14/2010 7:38	952690	10-1755	2	LANL	USE	S
EXP0312108.wiff	246856002	LER	3/14/2010 8:05	952690	10-1755	2	LANL	USE	S
EXP0312109.wiff	1202041929	LER	3/14/2010 8:31	952690	10-1755	2	LANL	USE	S
EXP0312110.wiff	1202041930	LER	3/14/2010 8:57	952690	10-1755	2	LANL	USE	S
EXP0312111.wiff	WXXCCV	LER	3/14/2010 9:24			1		USE	C
EXP0312112.wiff	XIBLK16	LER	3/14/2010 9:50			1		USE	B
EXP0312113.wiff	WXXCRI	LER	3/14/2010 10:16			1		USE	C
EXP0312114.wiff	246856003	LER	3/14/2010 10:43	952690	10-1755	2	LANL	USE	S
EXP0312115.wiff	246856004	LER	3/14/2010 11:09	952690	10-1755	2	LANL	USE	S
EXP0312116.wiff	246856005	LER	3/14/2010 11:36	952690	10-1755	2	LANL	USE	S
EXP0312117.wiff	246856006	LER	3/14/2010 12:02	952690	10-1755	2	LANL	USE	S
EXP0312118.wiff	246856007	LER	3/14/2010 12:28	952690	10-1755	2	LANL	USE	S
EXP0312119.wiff	246856008	LER	3/14/2010 12:55	952690	10-1755	2	LANL	USE	S
EXP0312120.wiff	246856009	LER	3/14/2010 13:21	952690	10-1755	2	LANL	USE	S
EXP0312121.wiff	246856010	LER	3/14/2010 13:48	952690	10-1755	2	LANL	USE	S
EXP0312122.wiff	WXXCCV	LER	3/14/2010 14:14			1		USE	C
EXP0312123.wiff	XIBLK17	LER	3/14/2010 14:40			1		USE	B
EXP0312124.wiff	WXXCRI	LER	3/14/2010 15:07			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: *hym*
 Date: *03/04/10*
 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

EXS03010031.wiff	XIBLK05	LER	3/1/2010 16:55						USE B
EXS03010032.wiff	1202040457	LER	3/1/2010 17:10						USE S
EXS03010033.wiff	1202040458	LER	3/1/2010 17:26					LANL	USE S
EXS03010034.wiff	246677001	LER	3/1/2010 17:42					LANL	USE S
EXS03010035.wiff	1202040459	LER	3/1/2010 17:58					LANL	USE S
EXS03010036.wiff	1202040460	LER	3/1/2010 18:13					LANL	USE S
EXS03010037.wiff	WXXCCV	LER	3/1/2010 18:29						USE C
EXS03010038.wiff	XIBLK06	LER	3/1/2010 18:45						USE B
EXS03010039.wiff	WXXCRI	LER	3/1/2010 19:01						USE C
EXS03010040.wiff	1202041915	LER	3/1/2010 19:16					LANL	USE S
EXS03010041.wiff	1202041916	LER	3/1/2010 19:32					LANL	USE S
EXS03010042.wiff	246851001	LER	3/1/2010 19:48					LANL	USE S
EXS03010043.wiff	1202041917	LER	3/1/2010 20:04					LANL	USE S
EXS03010044.wiff	1202041918	LER	3/1/2010 20:19					LANL	USE S
EXS03010045.wiff	246851002	LER	3/1/2010 20:35					LANL	USE S
EXS03010046.wiff	246851003	LER	3/1/2010 20:51					LANL	USE S
EXS03010047.wiff	246851004	LER	3/1/2010 21:07					LANL	USE S
EXS03010048.wiff	246851005	LER	3/1/2010 21:22					LANL	USE S
EXS03010049.wiff	246851006	LER	3/1/2010 21:38					LANL	USE S
EXS03010050.wiff	WXXCCV	LER	3/1/2010 21:54						USE C
EXS03010051.wiff	XIBLK07	LER	3/1/2010 22:10						USE B
EXS03010052.wiff	WXXCRI	LER	3/1/2010 22:25						USE C
EXS03010053.wiff	246851007	LER	3/1/2010 22:41					LANL	USE S
EXS03010054.wiff	246851008	LER	3/1/2010 22:57					LANL	USE S
EXS03010055.wiff	246851009	LER	3/1/2010 23:12					LANL	USE S
EXS03010056.wiff	246851010	LER	3/1/2010 23:28					LANL	USE S
EXS03010057.wiff	246851011	LER	3/1/2010 23:44					LANL	USE S
EXS03010058.wiff	1202041927	LER	3/2/2010 0:00					LANL	USE S
EXS03010059.wiff	1202041928	LER	3/2/2010 0:15					LANL	USE S
EXS03010060.wiff	246856002	LER	3/2/2010 0:31					LANL	USE S
EXS03010061.wiff	1202041929	LER	3/2/2010 0:47					LANL	USE S
EXS03010062.wiff	1202041930	LER	3/2/2010 1:02					LANL	USE S
EXS03010063.wiff	WXXCCV	LER	3/2/2010 1:18						USE C
EXS03010064.wiff	XIBLK08	LER	3/2/2010 1:34						USE B
EXS03010065.wiff	WXXCRI	LER	3/2/2010 1:50						USE C
EXS03010066.wiff	246856003	LER	3/2/2010 2:05					LANL	USE S
EXS03010067.wiff	246856004	LER	3/2/2010 2:21					LANL	USE S

EXS03010068.wiff	LER	3/2/2010 2:37	952690	10-1755	2	LANL	USE	S
EXS03010069.wiff	LER	3/2/2010 2:53	952690	10-1755	2	LANL	USE	S
EXS03010070.wiff	LER	3/2/2010 3:09	952690	10-1755	2	LANL	USE	S
EXS03010071.wiff	LER	3/2/2010 3:24	952690	10-1755	2	LANL	USE	S
EXS03010072.wiff	LER	3/2/2010 3:40	952690	10-1755	2	LANL	USE	S
EXS03010073.wiff	LER	3/2/2010 3:56	952690	10-1755	2	LANL	USE	S
EXS03010074.wiff	LER	3/2/2010 4:11	952690	10-1755	2	LANL	USE	S
EXS03010075.wiff	LER	3/2/2010 4:27			1		USE	C
EXS03010076.wiff	LER	3/2/2010 4:43			1		USE	B
EXS03010077.wiff	LER	3/2/2010 4:59	950081	VARIOUS	2	LANL	USE	C
EXS03010078.wiff	LER	3/2/2010 5:15	950081	VARIOUS	2	LANL	USE	S
EXS03010079.wiff	LER	3/2/2010 5:30	950081	10-1564	2	LANL	USE	S
EXS03010080.wiff	LER	3/2/2010 5:46	950081	10-1564	2	LANL	USE	S
EXS03010081.wiff	LER	3/2/2010 6:02	950081	10-1564	2	LANL	USE	S
EXS03010082.wiff	LER	3/2/2010 6:17	950081	10-1564	2	LANL	USE	S
EXS03010083.wiff	LER	3/2/2010 6:33	950081	10-1564	2	LANL	USE	S
EXS03010084.wiff	LER	3/2/2010 6:49	950081	10-1564	2	LANL	USE	S
EXS03010085.wiff	LER	3/2/2010 7:05	950081	10-1564	2	LANL	USE	S
EXS03010086.wiff	LER	3/2/2010 7:20	950081	10-1564	2	LANL	USE	S
EXS03010087.wiff	LER	3/2/2010 7:36			1		USE	C
EXS03010088.wiff	LER	3/2/2010 7:52			1		USE	B
EXS03010089.wiff	LER	3/2/2010 8:08			1		USE	C
EXS03010090.wiff	LER	3/2/2010 8:23	950081	10-1564	2	LANL	USE	S
EXS03010091.wiff	LER	3/2/2010 8:39	950081	10-1567	2	LANL	USE	S
EXS03010092.wiff	LER	3/2/2010 8:55	950081	10-1567	2	LANL	USE	S
EXS03010093.wiff	LER	3/2/2010 9:11	950081	10-1567	2	LANL	USE	S
EXS03010094.wiff	LER	3/2/2010 9:26	950081	10-1567	2	LANL	USE	S
EXS03010095.wiff	LER	3/2/2010 9:42	950081	10-1567	2	LANL	USE	S
EXS03010096.wiff	LER	3/2/2010 9:58	950081	10-1567	2	LANL	USE	S
EXS03010097.wiff	LER	3/2/2010 10:14	950081	10-1567	2	LANL	USE	S
EXS03010098.wiff	LER	3/2/2010 10:29	950081	10-1567	2	LANL	USE	S
EXS03010099.wiff	LER	3/2/2010 10:45	950081	10-1567	2	LANL	USE	S
EXS03010100.wiff	LER	3/2/2010 11:01			1		USE	C
EXS03010101.wiff	LER	3/2/2010 11:17			1		USE	B
EXS03010102.wiff	LER	3/2/2010 11:32			1		USE	C
EXS03010103.wiff	LER	3/2/2010 11:48	950081	10-1567	2	LANL	USE	S
EXS03010104.wiff	LER	3/2/2010 12:04	950081	10-1567	2	LANL	USE	S

[illegible]

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 10-1567**

Method/Analysis Information

Procedure: Analysis of Polychlorinated Biphenyls by ECD
Analytical Method: SW846 8082
Prep Method: SW846 3550B
Analytical Batch Number: 951946
Prep Batch Number: 951941

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8082:

Sample ID	Client ID
246330008	RE15-10-8301
246330009	RE15-10-8300
1202040223	Method Blank (MB)
1202040224	Laboratory Control Sample (LCS)
1202040225	246575003(WST15-10-11621) Matrix Spike (MS)
1202040226	246575003(WST15-10-11621) 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-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 associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria for the Aroclors.

SDG 10-1567-PCB

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Two of the five quantified peaks did not meet the acceptance criteria in the Aroclor-1260 standards analyzed for this SDG; however, the average concentration of the five peaks met the acceptance criteria.

Surrogate recovery did not meet the acceptance criteria in one of the standards analyzed for this SDG; however, this had no adverse effects on the data as the surrogate recovery was well within the acceptance range in the samples in this SDG.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB 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.

QC Sample Designation

A LANL sample of similar matrix associated with another SDG (#10-1675) was selected for the matrix spike and matrix spike duplicate analysis. A Form III and QC raw data are included in the package summarizing the results.

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 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.

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.

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 report (DER) is for documentation of any procedural anomalies that may deviate from referenced SOP or contractual document. A DER was not required for this SDG.

Manual Integration

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 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 VII's 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
ECD8A.I_1	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP I	30m x 0.25mm, 0.25um (Rtx-CLPesticide I)
ECD8A.I_2	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP II	30m x 0.25mm, 0.20um (Rtx-CLPesticide II)

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: Jimmy Cao

Date: 3/4/10

Roadmap for LANL 10-1567 PCB

This roadmap was analyzed by jen01212 on 02-15-2010, 12:09.

This roadmap was reviewed by jim01140 on 02-18-2010, 11:10.

This roadmap was packaged by yml on 03-04-2010, 12:16.

This roadmap was validated by jim01140 on 03-04-2010, 14:26.

Front Sample Column

exclude	manual	datafile	smid	sampletype	injdte	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/021210.b/026c2601.d	246330008	sample	12-FEB-2010	11:58	10-1567.sub	RE15-10-8301	1.00000	951946	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/021210.b/027f2701.d	246330009	sample	12-FEB-2010	12:11	10-1567.sub	RE15-10-8300	1.00000	951946	UPLOAD BOTH, USE HIGHER

Back Sample Column

exclude	manual	datafile	smid	sampletype	injdte	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/021210.b/026c2601.d	246330008	sample	12-FEB-2010	11:58	10-1567.sub	RE15-10-8301	1.00000	951946	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/021210.b/027f2701.d	246330009	sample	12-FEB-2010	12:11	10-1567.sub	RE15-10-8300	1.00000	951946	UPLOAD BOTH, USE HIGHER

Front QC Sample Column

exclude	manual	datafile	smid	sampletype	injdte	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/021210.b/012f1201-3.d	1202040223	mb	12-FEB-2010	09:05	10-1567.sub	PBLK01	1.00000	951946	
<input type="checkbox"/>	N	/chem/ecd8a.i/021210.b/013f1301-3.d	1202040224	lcs	12-FEB-2010	09:18	10-1567.sub	PBLK01LCS	1.00000	951946	

Back QC Sample Column

exclude	manual	datafile	smid	sampletype	injdte	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/021210.b/012b1201-3.d	1202040223	mb	12-FEB-2010	09:05	10-1567.sub	PBLK01	1.00000	951946	
<input type="checkbox"/>	N	/chem/ecd8a.i/021210.b/013b1301-3.d	1202040224	lcs	12-FEB-2010	09:18	10-1567.sub	PBLK01LCS	1.00000	951946	

SAMPLE DATA SUMMARY

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1567
Lab Sample ID: 246330009

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.13 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 30.6
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	4.79	ug/kg	1.59	4.79	1
11104-28-2	Aroclor-1221	U	4.79	ug/kg	1.59	4.79	1
11141-16-5	Aroclor-1232	U	4.79	ug/kg	1.59	4.79	1
53469-21-9	Aroclor-1242	U	4.79	ug/kg	1.59	4.79	1
12672-29-6	Aroclor-1248	U	4.79	ug/kg	1.59	4.79	1
11097-69-1	Aroclor-1254	U	4.79	ug/kg	1.59	4.79	1
11096-82-5	Aroclor-1260	U	4.79	ug/kg	1.59	4.79	1

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1567
Lab Sample ID: 246330008

Date Collected: 02/01/2010 12:00
Date Received: 02/05/2010 09:00
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.03 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: RE15-10-8301
Batch ID: 951946
Run Date: 02/12/2010 11:58
Prep Date: 02/11/2010 22:01
Data File: 026f2601.d
026b2601.d

CAS No.	Parname	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

QUALITY CONTROL SUMMARY

PCB
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-1567

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 #
1202040223	MB for batch 951941	64	64	67	70
1202040224	LCS for batch 951941	60	61	64	66
246330008	RE15-10-8301	58	58	59	63
246330009	RE15-10-8300	62	63	65	66

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: 10-1567

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 951941

Matrix: SOIL

Lab Sample ID:1202040224

Instrument: ECD8A.I

Analysis Date: 02/12/2010 09:18

Dilution: 1

Analyst: JAOC

Prep Batch ID: 951941

Inj. Vol: 1 uL

Batch ID: 951946

CAS No	Paramname	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	18.6	56	39-102
11096-82-5	LCS Aroclor-1260	33.3	0.0	22.7	68	45-118

PCB

Page 1 of 2

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1675

Client ID: WST15-10-11621MS

Lab Sample ID:1202040225

Instrument: ECD8A.I

Analyst: JAOC

Inj. Vol: 1 uL

Sample Type: Matrix Spike

Matrix: R

%Moisture: 6.6

Analysis Date: 02/12/2010 14:02

Dilution: 1

Prep Batch ID: 951941

Batch ID: 951946

CAS No	Parname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	MS Aroclor-1016	35.6	0.00 U	19.0	53	23-119
11096-82-5	MS Aroclor-1260	35.6	0.00 U	23.1	65	28-124

PCB

Page 2 of 2

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1675

Sample Type: Matrix Spike Duplicate

Client ID: WST15-10-11621MSD

Matrix: R

Lab Sample ID:1202040226

%Moisture: 6.6

Instrument: ECD8A.I

Analysis Date: 02/12/2010 14:14

Dilution: 1

Analyst: JAOC

Prep Batch ID: 951941

Inj. Vol: 1 uL

Batch ID: 951946

CAS No	Parname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
12674-11-2	MSD Aroclor-1016	35.6	0.00 U	19.4	54	23-119	2	0-28
11096-82-5	MSD Aroclor-1260	35.6	0.00 U	23.0	65	28-124	0	0-30

Method Blank Summary

Page 1 of 1

SDG Number:	10-1567	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 951941	Instrument ID:	ECD8AJ_2	Data File:	012b1201-1.d
Lab Sample ID:	1202040223		ECD8AJ_1		012f1201-1.d
Column:	CLP2	Prep Date:	02/11/2010 22:01	Analyzed:	02/12/10 09:05
	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 951941	1202040224	013f1301-1.d 013b1301-1.d	02/12/10	0918
02 RE15-10-8301	246330008	026f2601.d 026b2601.d	02/12/10	1158
03 RE15-10-8300	246330009	027f2701.d 027b2701.d	02/12/10	1211

SAMPLE DATA

PCB

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Certificate of Analysis
Sample Summary

SDG Number: 10-1567

Lab Sample ID: 246330009

Client ID: RE15-10-8300

Batch ID: 951946

Run Date: 02/12/2010 12:11

Prep Date: 02/11/2010 22:01

Data File: 027f2701.d
027b2701.d

Date Collected: 02/01/2010 12:00

Date Received: 02/05/2010 09:00

Client: LANL010

Method: SW846 8082

Inst: ECD8A.1

Analyst: JAOC

Aliquot: 30.13 g

Column: 1 CLP1
2 CLP2

Matrix: R

%Moisture: 30.6

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	4.79	ug/kg	1.59	4.79	1
11104-28-2	Aroclor-1221	U	4.79	ug/kg	1.59	4.79	1
11141-16-5	Aroclor-1232	U	4.79	ug/kg	1.59	4.79	1
53469-21-9	Aroclor-1242	U	4.79	ug/kg	1.59	4.79	1
12672-29-6	Aroclor-1248	U	4.79	ug/kg	1.59	4.79	1
11097-69-1	Aroclor-1254	U	4.79	ug/kg	1.59	4.79	1
11096-82-5	Aroclor-1260	U	4.79	ug/kg	1.59	4.79	1

Data File: /chem/ecd8a.i/021210.b/027f2701.d
Report Date: 12-Feb-2010 13:21

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/027f2701.d
Lab Smp Id: 246330009 Client Smp ID: RE15-10-8300
Inj Date : 12-FEB-2010 12:11
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |246330009|1|
Misc Info : |ECD82P_1S|951946|SVA|LANL|SOIL|RE15-10-8300|||
Comment :
Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m
Meth Date : 12-Feb-2010 11:13 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.d
Als bottle: 27
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1567.sub
Target Version: 3.50 Sample Matrix: Soil

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	30.13000	Weight of sample extracted (g)
M	30.64360	% Moisture

Cpnd Variable Local Compound Variable

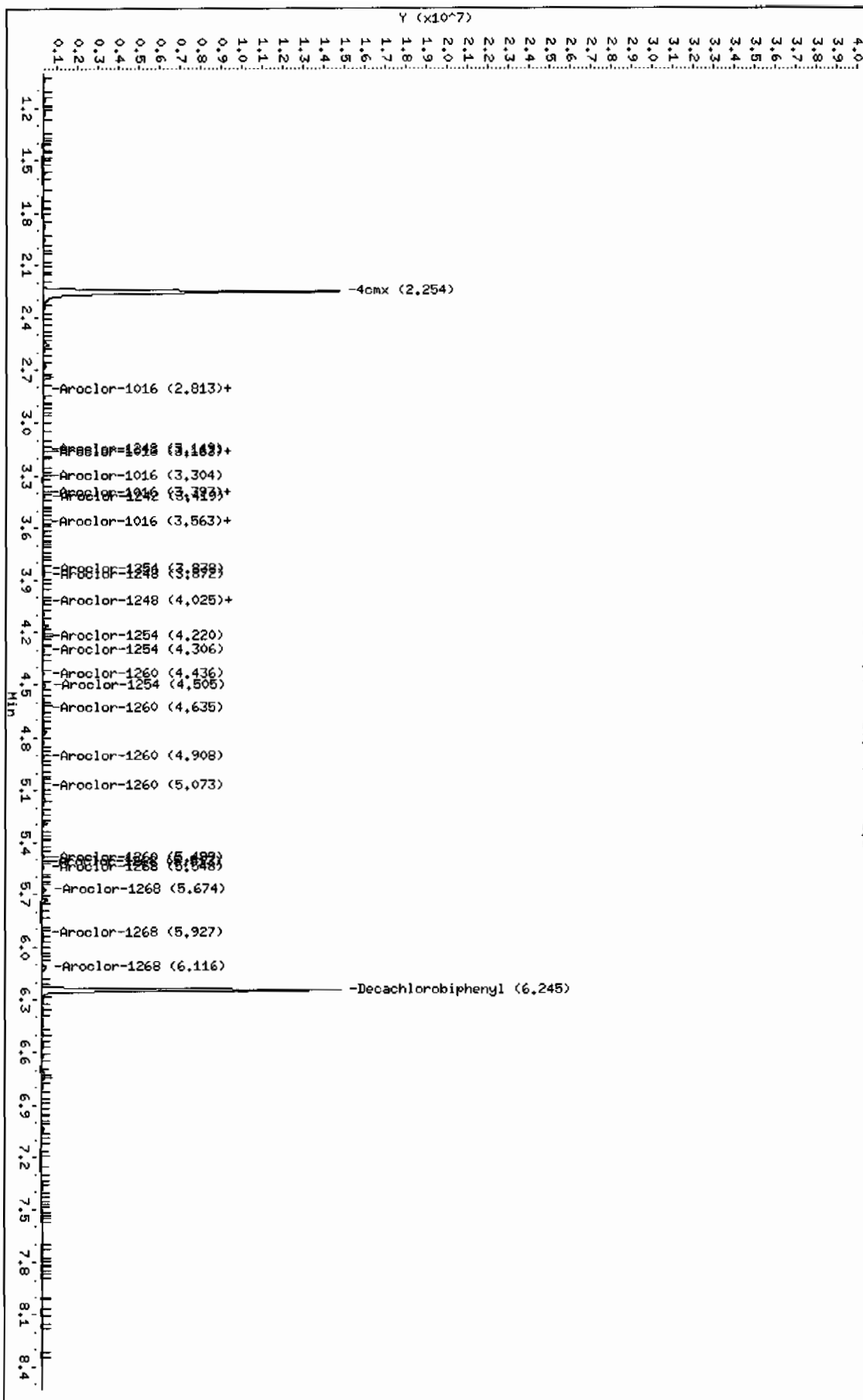
CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
2.254	2.252	0.002	16332332	124.289	5.9 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
6.245	6.245	0.000	13021324	130.238	6.2 80.00- 120.00	100.00

Data File: /chem/ecob8a.i/021210.b/0272701.d
 Date : 12-FEB-2010 12:11
 Client ID: RE15-10-8300
 Sample Info: 124633000911
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecob8a.i
 Operator: JNOC
 Column diameter: 0.25

/chem/ecob8a.i/021210.b/0272701.d



Data File: /chem/ecd8a.i/021210.b/027b2701.d
Report Date: 12-Feb-2010 13:09

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/027b2701.d

Lab Smp Id: 246330009

Client Smp ID: RE15-10-8300

Inj Date : 12-FEB-2010 12:11

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |246330009|1|

Misc Info : |ECD82P_1S|951946|SVA|LANL|SOIL|RE15-10-8300|||

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m

Meth Date : 12-Feb-2010 11:06 jen01212 Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25

Cal File: 036b3601.d

Als bottle: 27

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1567.sub

Target Version: 3.50

Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

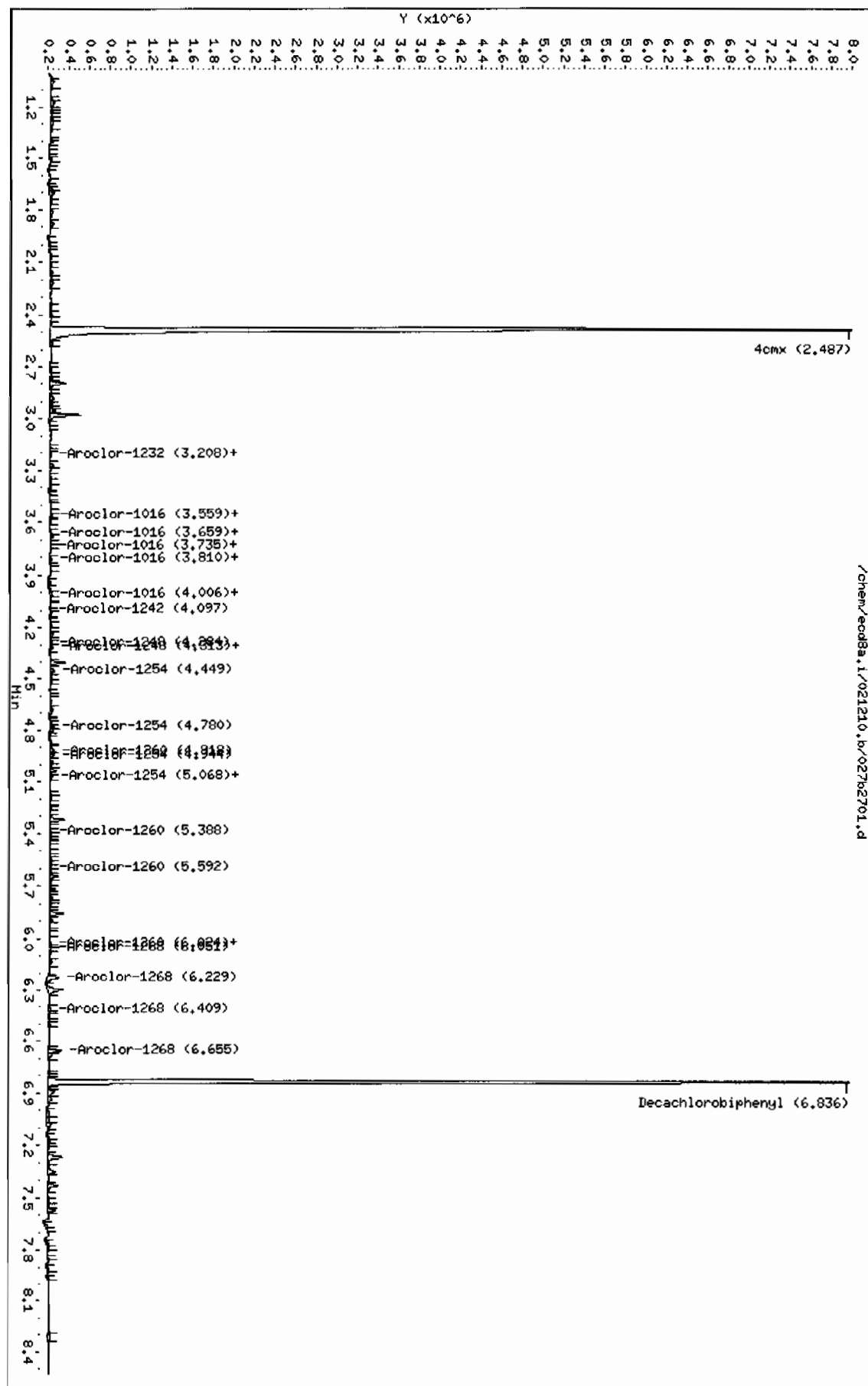
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.13000	Weight of sample extracted (g)
M	30.64360	% Moisture

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	
2.487	2.486	0.001	10872113 125.192	6.0	80.00- 120.00	100.00
<hr/>						
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
6.836	6.836	0.000	8608662 132.760	6.4	80.00- 120.00	100.00
<hr/>						

Data File: /chem/ecod8a.i/021210.bv027b2701.d
 Date: 12-FEB-2010 12:11
 Client ID: RE15-10-8300
 Sample Info: 124633000911
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecod8a.i
 Operator: JROC
 Column diameter: 0.25



PCB

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Certificate of Analysis
Sample Summary

SDG Number: 10-1567

Lab Sample ID: 246330008

Client ID: RE15-10-8301

Batch ID: 951946

Run Date: 02/12/2010 11:58

Prep Date: 02/11/2010 22:01

Data File: 026f2601.d
026b2601.d

Date Collected: 02/01/2010 12:00

Date Received: 02/05/2010 09:00

Client: LANL010

Method: SW846 8082

Inst: ECD8A.I

Analyst: JAOC

Aliquot: 30.03 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

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

Report Date: 12-Feb-2010 13:21

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/026f2601.d

Lab Smp Id: 246330008

Client Smp ID: RE15-10-8301

Inj Date : 12-FEB-2010 11:58

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |246330008|1|

Misc Info : |ECD82P_1S|951946|SVA|LANL|SOIL|RE15-10-8301|

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m

Meth Date : 12-Feb-2010 11:13 jen01212 Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25

Cal File: 036f3601.d

Als bottle: 26

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1567.sub

Target Version: 3.50

Sample Matrix: Soil

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	5.98190	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS

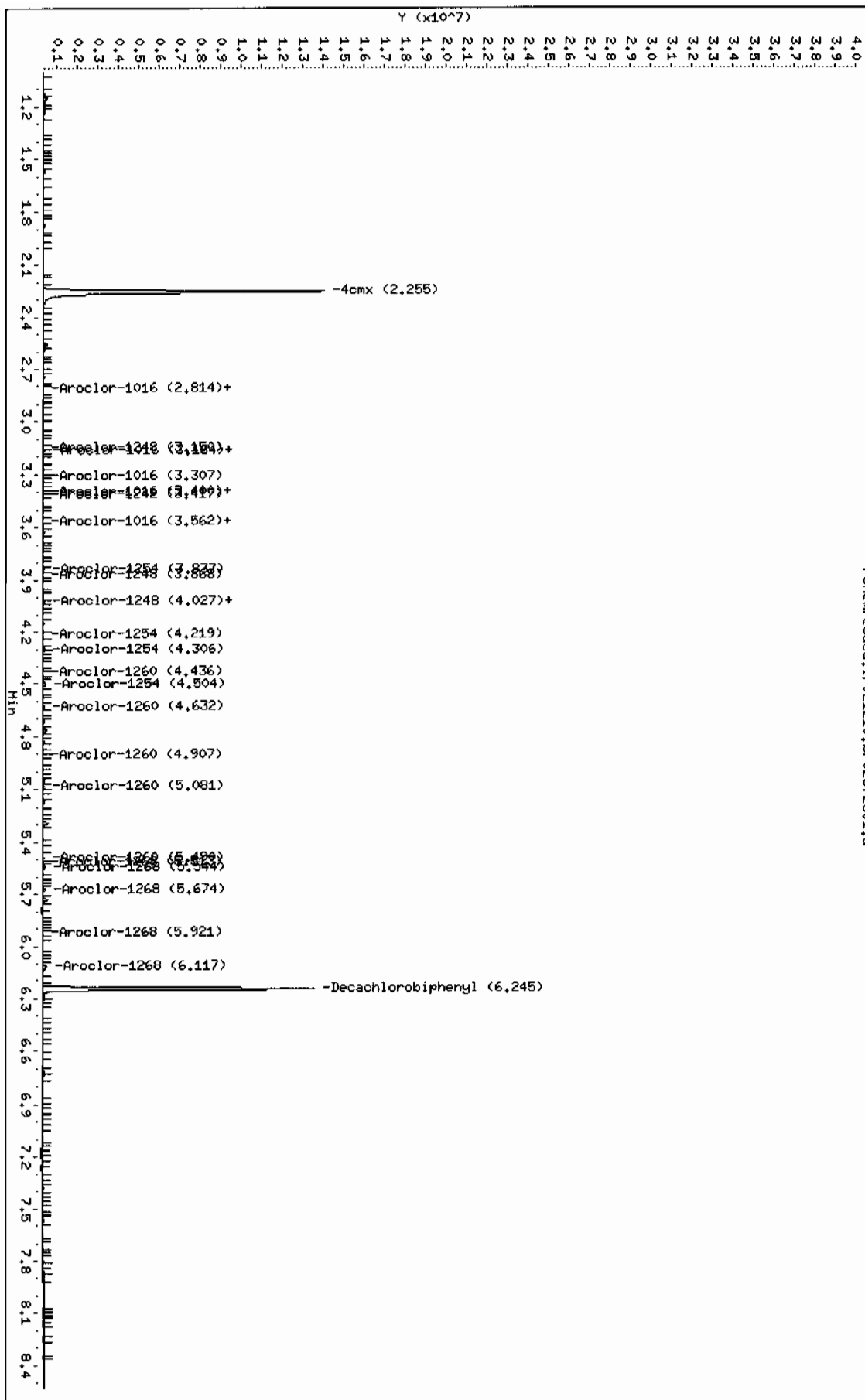
RT	EXP RT	DLT RT	ON-COL		FINAL	TARGET RANGE	RATIO
			RESPONSE	(ug/L)	(ug/Kg)		
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
2.255	2.252	0.003	15357789	116.873	4.1	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.245	6.245	0.000	11834744	118.370	4.2	80.00- 120.00	100.00

Data File: /chem/eodba.i/021210.b/026f2601.d
Date: 12-FEB-2010 11:58
Client ID: RE15-10-8301
Sample Info: 124630008111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eodba.i
Operator: JADC
Column diameter: 0.25

/chem/eodba.i/021210.b/026f2601.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd8a.i/021210.b/026b2601.d
Lab Smp Id: 246330008 Client Smp ID: RE15-10-8301
Inj Date : 12-FEB-2010 11:58
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |246330008|1|
Misc Info : |ECD82P_1S|951946|SVA|LANL|SOIL|RE15-10-8301|||
Comment :
Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m
Meth Date : 12-Feb-2010 11:06 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d
Als bottle: 26
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1567.sub
Target Version: 3.50 Sample Matrix: Soil

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	5.98190	% Moisture

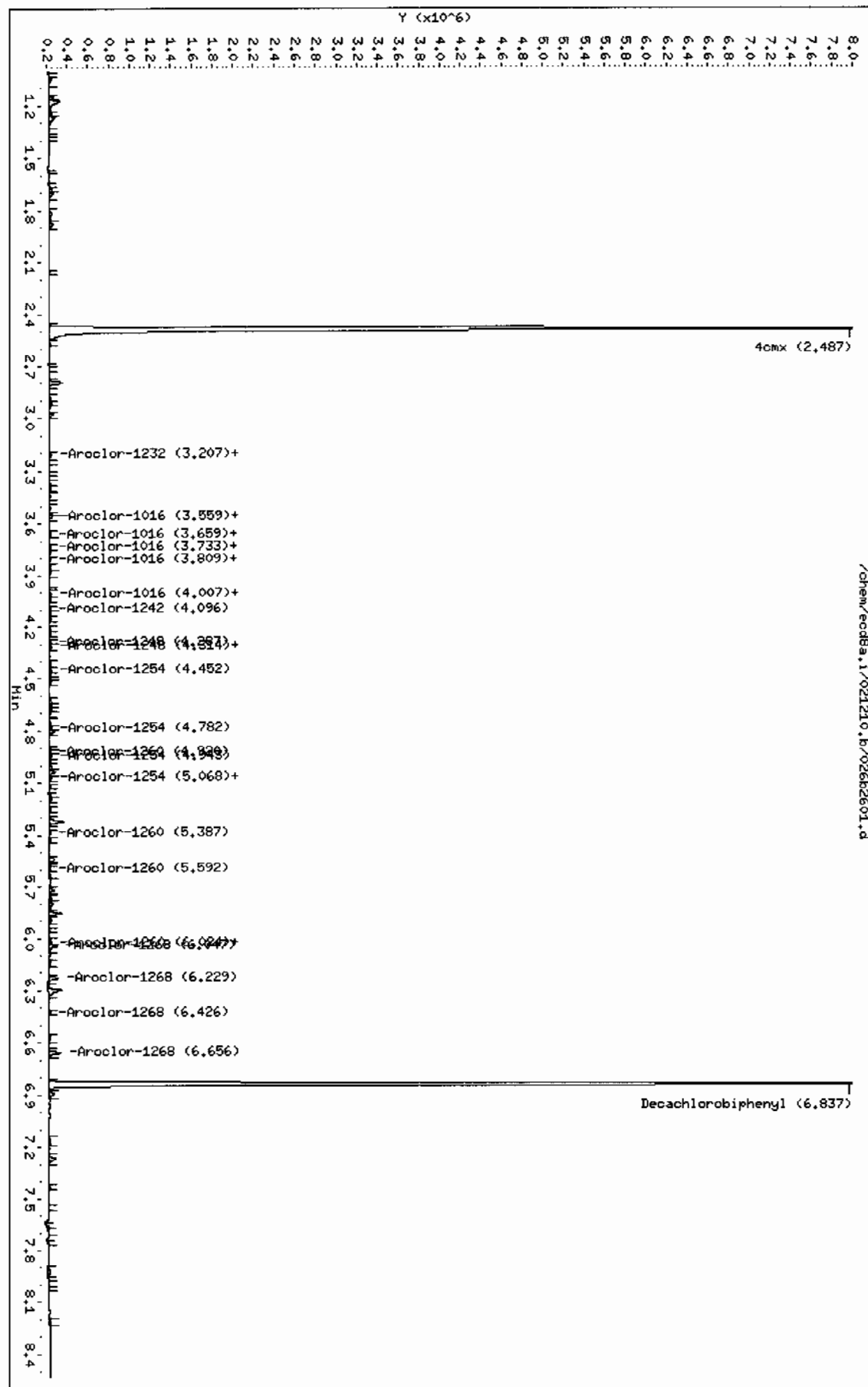
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
			RESPONSE (ug/L)	(ug/Kg)		
=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
2.487	2.486	0.001	10138088	116.740	4.1 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
6.837	6.836	0.001	8119156	125.211	4.4 80.00- 120.00	100.00

Data File: /chem/ecdb8a.i/021210.b/026b2601.d
 Date: 12-FEB-2010 11:58
 Client ID: RE15-10-8301
 Sample Info: 124633000811
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecdb8a.i
 Operator: JHOC
 Column diameter: 0.25



STANDARDS DATA

Report Date: 15-Feb-2010 11:17

Calibration History

Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m
Start Cal Date: 03-FEB-2010 10:24
End Cal Date : 03-FEB-2010 17:25

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
03-FEB-2010 15:46	AR1262	/chem/ecd8a.i/020310a.b/028f2801.d
03-FEB-2010 14:07	AR1248	/chem/ecd8a.i/020310a.b/020f2001.d
03-FEB-2010 12:53	AR1242	/chem/ecd8a.i/020310a.b/014f1401.d
03-FEB-2010 11:39	AR1254	/chem/ecd8a.i/020310a.b/008f0801.d
03-FEB-2010 10:24	AR1660	/chem/ecd8a.i/020310a.b/002f0201.d
Cal Level: 2 , Cal Amount: 250.00000		
03-FEB-2010 15:58	AR1262	/chem/ecd8a.i/020310a.b/029f2901.d
03-FEB-2010 14:19	AR1248	/chem/ecd8a.i/020310a.b/021f2101.d
03-FEB-2010 13:05	AR1242	/chem/ecd8a.i/020310a.b/015f1501.d
03-FEB-2010 11:51	AR1254	/chem/ecd8a.i/020310a.b/009f0901.d
03-FEB-2010 10:37	AR1660	/chem/ecd8a.i/020310a.b/003f0301.d
Cal Level: 3 , Cal Amount: 500.00000		
03-FEB-2010 16:11	AR1262	/chem/ecd8a.i/020310a.b/030f3001.d
03-FEB-2010 14:32	AR1248	/chem/ecd8a.i/020310a.b/022f2201.d
03-FEB-2010 13:18	AR1242	/chem/ecd8a.i/020310a.b/016f1601.d
03-FEB-2010 12:03	AR1254	/chem/ecd8a.i/020310a.b/010f1001.d
03-FEB-2010 10:49	AR1660	/chem/ecd8a.i/020310a.b/004f0401.d
Cal Level: 4 , Cal Amount: 1000.00000		
03-FEB-2010 17:25	DDT	/chem/ecd8a.i/020310a.b/036f3601.d
03-FEB-2010 17:00	AR1268	/chem/ecd8a.i/020310a.b/034f3401.d
03-FEB-2010 16:23	AR1262	/chem/ecd8a.i/020310a.b/031f3101.d
03-FEB-2010 15:34	AR1221	/chem/ecd8a.i/020310a.b/027f2701.d
03-FEB-2010 15:21	AR1232	/chem/ecd8a.i/020310a.b/026f2601.d
03-FEB-2010 14:44	AR1248	/chem/ecd8a.i/020310a.b/023f2301.d
03-FEB-2010 13:30	AR1242	/chem/ecd8a.i/020310a.b/017f1701.d
03-FEB-2010 12:16	AR1254	/chem/ecd8a.i/020310a.b/011f1101.d
03-FEB-2010 11:01	AR1660	/chem/ecd8a.i/020310a.b/005f0501.d
Cal Level: 5 , Cal Amount: 4000.00000		
03-FEB-2010 16:36	AR1262	/chem/ecd8a.i/020310a.b/032f3201.d
03-FEB-2010 14:57	AR1248	/chem/ecd8a.i/020310a.b/024f2401.d
03-FEB-2010 13:42	AR1242	/chem/ecd8a.i/020310a.b/018f1801.d
03-FEB-2010 12:28	AR1254	/chem/ecd8a.i/020310a.b/012f1201.d
03-FEB-2010 11:14	AR1660	/chem/ecd8a.i/020310a.b/006f0601.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 15:04	AR1660	/chem/ecd8a.i/021210.b/041f4101.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 13:25	AR1660	/chem/ecd8a.i/021210.b/033f3301.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 10:56	AR1660	/chem/ecd8a.i/021210.b/021f2101.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 08:28	AR1268	/chem/ecd8a.i/021210.b/009f0901.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 08:16	AR1262	/chem/ecd8a.i/021210.b/008f0801.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 08:03	AR1221	/chem/ecd8a.i/021210.b/007f0701.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 07:51	AR1232	/chem/ecd8a.i/021210.b/006f0601.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 07:38	AR1248	/chem/ecd8a.i/021210.b/005f0501.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 07:26	AR1242	/chem/ecd8a.i/021210.b/004f0401.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 07:14	AR1254	/chem/ecd8a.i/021210.b/003f0301.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 07:02	AR1660	/chem/ecd8a.i/021210.b/002f0201.d

Report Date: 15-Feb-2010 11:17

Calibration History

Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m
Start Cal Date: 03-FEB-2010 10:24
End Cal Date : 03-FEB-2010 17:25

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
03-FEB-2010 15:46	AR1262	/chem/ecd8a.i/020310a.b/028b2801.d
03-FEB-2010 14:07	AR1248	/chem/ecd8a.i/020310a.b/020b2001.d
03-FEB-2010 12:53	AR1242	/chem/ecd8a.i/020310a.b/014b1401.d
03-FEB-2010 11:39	AR1254	/chem/ecd8a.i/020310a.b/008b0801.d
03-FEB-2010 10:24	AR1660	/chem/ecd8a.i/020310a.b/002b0201.d
Cal Level: 2 , Cal Amount: 250.00000		
03-FEB-2010 15:58	AR1262	/chem/ecd8a.i/020310a.b/029b2901.d
03-FEB-2010 14:19	AR1248	/chem/ecd8a.i/020310a.b/021b2101.d
03-FEB-2010 13:05	AR1242	/chem/ecd8a.i/020310a.b/015b1501.d
03-FEB-2010 11:51	AR1254	/chem/ecd8a.i/020310a.b/009b0901.d
03-FEB-2010 10:37	AR1660	/chem/ecd8a.i/020310a.b/003b0301.d
Cal Level: 3 , Cal Amount: 500.00000		
03-FEB-2010 16:11	AR1262	/chem/ecd8a.i/020310a.b/030b3001.d
03-FEB-2010 14:32	AR1248	/chem/ecd8a.i/020310a.b/022b2201.d
03-FEB-2010 13:18	AR1242	/chem/ecd8a.i/020310a.b/016b1601.d
03-FEB-2010 12:03	AR1254	/chem/ecd8a.i/020310a.b/010b1001.d
03-FEB-2010 10:49	AR1660	/chem/ecd8a.i/020310a.b/004b0401.d
Cal Level: 4 , Cal Amount: 1000.00000		
03-FEB-2010 17:25	DDT	/chem/ecd8a.i/020310a.b/036b3601.d
03-FEB-2010 17:00	AR1268	/chem/ecd8a.i/020310a.b/034b3401.d
03-FEB-2010 16:23	AR1262	/chem/ecd8a.i/020310a.b/031b3101.d
03-FEB-2010 15:34	AR1221	/chem/ecd8a.i/020310a.b/027b2701.d
03-FEB-2010 15:21	AR1232	/chem/ecd8a.i/020310a.b/026b2601.d
03-FEB-2010 14:44	AR1248	/chem/ecd8a.i/020310a.b/023b2301.d
03-FEB-2010 13:30	AR1242	/chem/ecd8a.i/020310a.b/017b1701.d
03-FEB-2010 12:16	AR1254	/chem/ecd8a.i/020310a.b/011b1101.d
03-FEB-2010 11:01	AR1660	/chem/ecd8a.i/020310a.b/005b0501.d
Cal Level: 5 , Cal Amount: 4000.00000		
03-FEB-2010 16:36	AR1262	/chem/ecd8a.i/020310a.b/032b3201.d
03-FEB-2010 14:57	AR1248	/chem/ecd8a.i/020310a.b/024b2401.d
03-FEB-2010 13:42	AR1242	/chem/ecd8a.i/020310a.b/018b1801.d
03-FEB-2010 12:28	AR1254	/chem/ecd8a.i/020310a.b/012b1201.d
03-FEB-2010 11:14	AR1660	/chem/ecd8a.i/020310a.b/006b0601.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000	
12-FEB-2010 15:04 AR1660	/chem/ecd8a.i/021210.b/041b4101.d
Ccal Level: 4 , Ccal Amount: 1000	
12-FEB-2010 13:25 AR1660	/chem/ecd8a.i/021210.b/033b3301.d
Ccal Level: 4 , Ccal Amount: 1000	
12-FEB-2010 10:56 AR1660	/chem/ecd8a.i/021210.b/021b2101.d
Ccal Level: 4 , Ccal Amount: 1000	
12-FEB-2010 08:28 AR1268	/chem/ecd8a.i/021210.b/009b0901.d
Ccal Level: 4 , Ccal Amount: 1000	
12-FEB-2010 08:16 AR1262	/chem/ecd8a.i/021210.b/008b0801.d
Ccal Level: 4 , Ccal Amount: 1000	
12-FEB-2010 08:03 AR1221	/chem/ecd8a.i/021210.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000	
12-FEB-2010 07:51 AR1232	/chem/ecd8a.i/021210.b/006b0601.d
Ccal Level: 4 , Ccal Amount: 1000	
12-FEB-2010 07:38 AR1248	/chem/ecd8a.i/021210.b/005b0501.d
Ccal Level: 4 , Ccal Amount: 1000	
12-FEB-2010 07:26 AR1242	/chem/ecd8a.i/021210.b/004b0401.d
Ccal Level: 4 , Ccal Amount: 1000	
12-FEB-2010 07:14 AR1254	/chem/ecd8a.i/021210.b/003b0301.d
Ccal Level: 4 , Ccal Amount: 1000	
12-FEB-2010 07:02 AR1660	/chem/ecd8a.i/021210.b/002b0201.d

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COMPOUND LISTING

Method file : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m
Quant Method : ESTD Target Version : 3.50
Last Update : 15-Feb-2010 06:50 Number of Cpnds : 15
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	758.000000
Initial:End Threshold	379.000000
Initial:Area Threshold	734.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	2.000000
Initial:Negative Peaks	OFF
Initial:Tension	1.500000
6.500:Bunch Factor	2.000000

Compound	RT	RT Window	RF
1 Aroclor-1016	2.811	2.781-2.841	4.665e+03
	3.163	3.133-3.193	5.770e+03
	3.306	3.276-3.336	2.454e+03
	3.399	3.369-3.429	2.198e+03
	3.561	3.531-3.591	3.142e+03
2 Aroclor-1221	1.855	1.825-1.885	1.100e+03
	2.394	2.364-2.424	1.460e+03
	2.541	2.511-2.571	3.385e+03
3 Aroclor-1232	2.541	2.511-2.571	2.601e+03
	2.812	2.782-2.842	2.261e+03
	3.308	3.278-3.338	1.243e+03
	3.562	3.532-3.592	1.479e+03
4 Aroclor-1242	3.624	3.594-3.654	9.227e+02
	2.812	2.782-2.842	3.974e+03
	3.164	3.134-3.194	4.796e+03
	3.400	3.369-3.430	1.805e+03
	3.417	3.387-3.447	1.889e+03
5 Aroclor-1248	3.562	3.532-3.592	2.645e+03
	3.148	3.118-3.178	2.990e+03
	3.399	3.369-3.429	3.823e+03
	3.562	3.532-3.592	5.000e+03
	3.867	3.837-3.897	5.990e+03
	4.027	3.997-4.057	4.826e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m

Compound	RT	RT Window	RF
6 Aroclor-1254	3.837	3.807-3.867	4.785e+03
	4.025	3.995-4.055	6.569e+03
	4.220	4.190-4.250	5.138e+03
	4.306	4.276-4.336	8.797e+03
	4.501	4.471-4.531	6.914e+03
7 Aroclor-1260	4.435	4.405-4.465	6.739e+03
	4.631	4.601-4.661	1.026e+04
	4.906	4.876-4.936	6.130e+03
	5.078	5.048-5.108	6.386e+03
	5.490	5.460-5.520	6.860e+03
8 Aroclor-1262	4.337	4.307-4.367	3.367e+03
	4.436	4.406-4.466	5.243e+03
	4.631	4.601-4.661	7.103e+03
	4.906	4.876-4.936	8.580e+03
	5.079	5.049-5.109	7.966e+03
9 Aroclor-1268	5.514	5.484-5.544	1.632e+04
	5.541	5.511-5.571	1.572e+04
	5.673	5.643-5.703	1.207e+04
	5.919	5.889-5.949	6.023e+03
	6.116	6.086-6.146	3.601e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.252	2.222-2.282	1.314e+05
\$ 12 Decachlorobiphenyl	6.245	6.215-6.275	9.998e+04
13 4,4'-DDT	4.852	4.832-4.872	2.393e+04
14 4,4'-DDD	4.658	4.638-4.678	1.570e+05
15 4,4'-DDE	4.234	4.214-4.254	1.340e+05

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 15-Feb-2010 06:49 Number of Cpnds : 15
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	733.000000
Initial:End Threshold	366.500000
Initial:Area Threshold	522.000000
Initial:P-P Resolution	0.000000
Initial:Bunch Factor	2.000000
Initial:Negative Peaks	OFF
Initial:Tension	2.000000
9.000:Bunch Factor	2.000000

Compound	RT	RT Window	RF
1 Aroclor-1016	3.558	3.528-3.588	3.766e+03
	3.658	3.628-3.688	2.494e+03
	3.734	3.704-3.764	1.515e+03
	3.809	3.779-3.839	1.493e+03
	4.006	3.976-4.036	2.036e+03
2 Aroclor-1221	2.727	2.697-2.757	8.949e+02
	2.839	2.809-2.869	5.569e+02
	2.888	2.858-2.918	2.060e+03
3 Aroclor-1232	3.207	3.177-3.237	1.515e+03
	3.560	3.530-3.590	1.744e+03
	3.659	3.629-3.689	1.176e+03
	3.735	3.705-3.765	7.101e+02
4 Aroclor-1242	3.810	3.780-3.840	6.182e+02
	3.206	3.176-3.236	2.677e+03
	3.559	3.530-3.590	3.126e+03
	3.659	3.629-3.689	2.127e+03
	4.006	3.976-4.036	1.703e+03
5 Aroclor-1248	4.096	4.066-4.126	1.567e+03
	3.657	3.627-3.687	1.427e+03
	3.810	3.780-3.840	2.467e+03
	4.006	3.976-4.036	3.089e+03
	4.284	4.254-4.314	3.647e+03
	4.317	4.287-4.347	4.004e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m

Compound	RT	RT Window	RF
6 Aroclor-1254	4.313	4.283-4.343	3.450e+03
	4.451	4.421-4.481	3.910e+03
	4.780	4.750-4.810	5.500e+03
	4.942	4.912-4.972	4.011e+03
	5.068	5.038-5.098	2.549e+03
7 Aroclor-1260	4.919	4.889-4.949	4.084e+03
	5.068	5.038-5.098	4.969e+03
	5.384	5.354-5.414	3.788e+03
	5.591	5.561-5.621	3.953e+03
	6.023	5.993-6.053	6.227e+03
8 Aroclor-1262	4.920	4.890-4.950	3.276e+03
	5.068	5.038-5.098	3.827e+03
	5.386	5.356-5.416	5.446e+03
	5.592	5.562-5.622	5.047e+03
	6.021	5.991-6.051	7.196e+03
9 Aroclor-1268	6.018	5.988-6.048	1.138e+04
	6.051	6.021-6.081	1.041e+04
	6.230	6.200-6.260	8.192e+03
	6.427	6.397-6.457	4.057e+03
	6.656	6.626-6.686	2.464e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.486	2.456-2.516	8.684e+04
\$ 12 Decachlorobiphenyl	6.836	6.806-6.866	6.484e+04
13 4,4'-DDT	5.323	5.303-5.343	1.460e+04
14 4,4'-DDD	5.102	5.082-5.122	1.001e+05
15 4,4'-DDE	4.691	4.671-4.711	8.898e+04

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2010 10:24
End Cal Date : 03-FEB-2010 17:25
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m
Cal Date : 15-Feb-2010 06:50 jen01212
Curve Type : Average

Calibration File Names:

Level 1: /chem/ecd8a.i/020310a.b/028f2801.d
Level 2: /chem/ecd8a.i/020310a.b/029f2901.d
Level 3: /chem/ecd8a.i/020310a.b/030f3001.d
Level 4: /chem/ecd8a.i/020310a.b/036f3601.d
Level 5: /chem/ecd8a.i/020310a.b/032f3201.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)	5614	5138	4704	4321	3545	4665	16.943
(2)	6383	6264	5935	5475	4791	5770	11.275
(3)	2817	2639	2454	2319	2042	2454	12.124
(4)	2629	2406	2216	2019	1720	2198	15.914
(5)	3708	3411	3117	2938	2537	3142	14.248
2 Aroclor-1221(1)	++++	++++	++++	1100	++++	1100	0.000
(2)	++++	++++	++++	1460	++++	1460	0.000
(3)	++++	++++	++++	3385	++++	3385	0.000
3 Aroclor-1232(1)	++++	++++	++++	2601	++++	2601	0.000
(2)	++++	++++	++++	2261	++++	2261	0.000
(3)	++++	++++	++++	1243	++++	1243	0.000
(4)	++++	++++	++++	1479	++++	1479	0.000
(5)	++++	++++	++++	923	++++	923	0.000
4 Aroclor-1242(1)	4726	4372	4070	3706	2998	3974	16.680
(2)	5172	5152	4949	4680	4027	4796	9.873
(3)	2139	1968	1820	1683	1417	1805	15.251
(4)	2229	2050	1908	1759	1500	1889	14.735
(5)	3065	2855	2678	2500	2127	2645	13.507
5 Aroclor-1248(1)	3599	3150	2999	2805	2397	2990	14.793
(2)	4688	4030	3804	3549	3043	3823	15.884
(3)	6028	5281	4903	4737	4053	5000	14.533
(4)	7068	6330	5909	5676	4965	5990	13.024
(5)	5743	5075	4737	4591	3986	4826	13.394
6 Aroclor-1254(1)	5857	5096	4715	4450	3806	4785	15.921
(2)	7961	7038	6468	6172	5208	6569	15.558
(3)	6032	5571	5105	4741	4242	5138	13.582
(4)	10107	9649	8877	8173	7180	8797	13.271
(5)	7953	7619	6996	6322	5678	6914	13.452

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2010 10:24
 End Cal Date : 03-FEB-2010 17:25
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m
 Cal Date : 15-Feb-2010 06:50 jen01212
 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
7 Aroclor-1260(1)	7706	7225	6868	6425	5470	6739	12.628
(2)	11735	10983	10481	9771	8329	10260	12.630
(3)	7075	6577	6171	5792	5035	6130	12.657
(4)	7317	6857	6397	6058	5301	6386	12.066
(5)	7655	7335	6855	6540	5914	6860	9.924
8 Aroclor-1262(1)	3851	3558	3311	3256	2859	3367	10.954
(2)	5935	5551	5239	5102	4386	5243	10.995
(3)	7996	7523	7022	6963	6012	7103	10.414
(4)	9555	9028	8567	8433	7318	8580	9.694
(5)	8875	8357	7946	7802	6850	7966	9.421
9 Aroclor-1268(1)	++++	++++	++++	16324	++++	16324	0.000
(2)	++++	++++	++++	15723	++++	15723	0.000
(3)	++++	++++	++++	12075	++++	12075	0.000
(4)	++++	++++	++++	6023	++++	6023	0.000
(5)	++++	++++	++++	36012	++++	36012	0.000
M 10 Aroclor-Total	++++	++++	++++	++++	++++	++++	++++
13 4,4'-DDT	++++	++++	++++	23929	++++	23929	0.000
14 4,4'-DDD	++++	++++	++++	157020	++++	157020	0.000
15 4,4'-DDE	++++	++++	++++	133975	++++	133975	0.000
\$ 11 4cmx	141196	137660	133177	129355	115643	131406	7.521
\$ 12 Decachlorobiphenyl	111693	106508	99006	96244	86457	99981	9.718

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2010 10:24
 End Cal Date : 03-FEB-2010 17:25
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m
 Cal Date : 15-Feb-2010 06:49 jen01212
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecd8a.i/020310a.b/028b2801.d
 Level 2: /chem/ecd8a.i/020310a.b/029b2901.d
 Level 3: /chem/ecd8a.i/020310a.b/030b3001.d
 Level 4: /chem/ecd8a.i/020310a.b/036b3601.d
 Level 5: /chem/ecd8a.i/020310a.b/032b3201.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)	3955	3879	3768	3829	3401	3766	5.726
(2)	2683	2623	2522	2463	2181	2494	7.814
(3)	1588	1565	1522	1510	1392	1515	5.000
(4)	1644	1573	1498	1453	1297	1493	8.812
(5)	2161	2107	2068	2025	1817	2036	6.473
2 Aroclor-1221(1)	++++	++++	++++	895	++++	895	0.000
(2)	++++	++++	++++	557	++++	557	0.000
(3)	++++	++++	++++	2060	++++	2060	0.000
3 Aroclor-1232(1)	++++	++++	++++	1515	++++	1515	0.000
(2)	++++	++++	++++	1744	++++	1744	0.000
(3)	++++	++++	++++	1176	++++	1176	0.000
(4)	++++	++++	++++	710	++++	710	0.000
(5)	++++	++++	++++	618	++++	618	0.000
4 Aroclor-1242(1)	2949	2857	2758	2609	2213	2677	10.779
(2)	3213	3196	3180	3232	2808	3126	5.721
(3)	2287	2232	2178	2099	1842	2127	8.178
(4)	1820	1782	1741	1678	1497	1703	7.463
(5)	1675	1595	1607	1522	1434	1567	5.872
5 Aroclor-1248(1)	1621	1511	1422	1366	1213	1427	10.773
(2)	2779	2594	2491	2383	2090	2467	10.392
(3)	3403	3233	3131	3022	2657	3089	9.043
(4)	3964	3788	3692	3588	3204	3647	7.785
(5)	4333	4155	4060	3948	3526	4004	7.553
6 Aroclor-1254(1)	3700	3695	3475	3389	2993	3450	8.395
(2)	4204	4194	3940	3836	3377	3910	8.648
(3)	5766	5885	5570	5452	4827	5500	7.494
(4)	4254	4252	4044	3942	3562	4011	7.104
(5)	2775	2711	2546	2462	2250	2549	8.187

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2010 10:24
 End Cal Date : 03-FEB-2010 17:25
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m
 Cal Date : 15-Feb-2010 06:49 jen01212
 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
7 Aroclor-1260 (1)	4328	4278	4140	4064	3611	4084	6.976
(2)	5221	5198	5036	4963	4428	4969	6.467
(3)	3970	3947	3809	3790	3427	3788	5.744
(4)	4121	4108	3975	3957	3605	3953	5.268
(5)	6395	6455	6249	6250	5789	6227	4.190
8 Aroclor-1262 (1)	3545	3367	3269	3249	2948	3276	6.635
(2)	4038	3929	3844	3825	3498	3827	5.277
(3)	5683	5613	5515	5463	4958	5446	5.255
(4)	5266	5178	5090	5067	4633	5047	4.838
(5)	7327	7356	7286	7270	6740	7196	3.572
9 Aroclor-1268 (1)	++++	++++	++++	11384	++++	11384	0.000
(2)	++++	++++	++++	10412	++++	10412	0.000
(3)	++++	++++	++++	8192	++++	8192	0.000
(4)	++++	++++	++++	4057	++++	4057	0.000
(5)	++++	++++	++++	24640	++++	24640	0.000
IM 10 Aroclor-Total	++++	++++	++++	++++	++++	++++	++++
13 4,4'-DDT	++++	++++	++++	14596	++++	14596	0.000
14 4,4'-DDD	++++	++++	++++	100145	++++	100145	0.000
15 4,4'-DDE	++++	++++	++++	88982	++++	88982	0.000
\$ 11 4cmx	86244	88409	88291	88885	82388	86843	3.097
\$ 12 Decachlorobiphenyl	68541	67257	64616	64263	59541	64844	5.342

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.: 10-1567
 Instrument ID: ECD8A Calibration Date: 02/12/10 Time: 0702
 Lab File ID: 002F0201 Init. Calib. Date(s): 02/03/10 02/03/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1024 1114
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4664.624	4548.503	0.01	-2.5	15.0
(2)	5769.588	5603.764	0.01	-2.9	15.0
(3)	2454.201	2323.075	0.01	-5.3	15.0
(4)	2198.179	2073.021	0.01	-5.7	15.0
(5)	3142.156	2985.422	0.01	-5.0	15.0
Aroclor-1260	6738.969	6360.304	0.01	-5.6	15.0
(2)	10259.796	9595.648	0.01	-6.5	15.0
(3)	6129.851	5825.535	0.01	-5.0	15.0
(4)	6385.867	6234.879	0.01	-2.4	15.0
(5)	6859.759	6996.429	0.01	2.0	15.0
4cmx	131406.10	139136.78	0.01	5.9	15.0
Decachlorobiphenyl	99981.358	97993.400	0.01	-2.0	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.: 10-1567
 Instrument ID: ECD8A Calibration Date: 02/12/10 Time: 0702
 Lab File ID: 002B0201 Init. Calib. Date(s): 02/03/10 02/03/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1024 1114
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	3766.401	3777.022	0.01	0.3	15.0
(2)	2494.427	2504.931	0.01	0.4	15.0
(3)	1515.492	1469.542	0.01	-3.0	15.0
(4)	1493.163	1424.438	0.01	-4.6	15.0
(5)	2035.618	1995.101	0.01	-2.0	15.0
Aroclor-1260	4084.417	4339.858	0.01	6.2	15.0
(2)	4968.902	5272.238	0.01	6.1	15.0
(3)	3788.418	4034.101	0.01	6.5	15.0
(4)	3953.106	4196.512	0.01	6.2	15.0
(5)	6227.437	6650.370	0.01	6.8	15.0
4cmx	86843.352	91859.720	0.01	5.8	15.0
Decachlorobiphenyl	64843.758	65029.570	0.01	0.3	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.: 10-1567
 Instrument ID: ECD8A Calibration Date: 02/12/10 Time: 1056
 Lab File ID: 021F2101 Init. Calib. Date(s): 02/03/10 02/03/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1024 1114
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4664.624	4427.289	0.01	-5.1	15.0
(2)	5769.588	5231.669	0.01	-9.3	15.0
(3)	2454.201	2257.198	0.01	-8.0	15.0
(4)	2198.179	2027.637	0.01	-7.8	15.0
(5)	3142.156	2907.902	0.01	-7.4	15.0
Aroclor-1260	6738.969	6210.653	0.01	-7.8	15.0
(2)	10259.796	9429.792	0.01	-8.1	15.0
(3)	6129.851	5734.817	0.01	-6.4	15.0
(4)	6385.867	6164.329	0.01	-3.5	15.0
(5)	6859.759	6924.069	0.01	0.9	15.0
4cmx	131406.10	134284.87	0.01	2.2	15.0
Decachlorobiphenyl	99981.358	96393.950	0.01	-3.6	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.: 10-1567
 Instrument ID: ECD8A Calibration Date: 02/12/10 Time: 1056
 Lab File ID: 021B2101 Init. Calib. Date(s): 02/03/10 02/03/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1024 1114
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	3766.401	3579.581	0.01	-5.0	15.0
(2)	2494.427	2425.109	0.01	-2.8	15.0
(3)	1515.492	1415.842	0.01	-6.6	15.0
(4)	1493.163	1374.673	0.01	-7.9	15.0
(5)	2035.618	1929.912	0.01	-5.2	15.0
Aroclor-1260	4084.417	4222.628	0.01	3.4	15.0
(2)	4968.902	5138.981	0.01	3.4	15.0
(3)	3788.418	3947.606	0.01	4.2	15.0
(4)	3953.106	4089.217	0.01	3.4	15.0
(5)	6227.437	6559.427	0.01	5.3	15.0
4cmx	86843.352	88065.490	0.01	1.4	15.0
Decachlorobiphenyl	64843.758	63780.140	0.01	-1.6	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.: 10-1567
 Instrument ID: ECD8A Calibration Date: 02/12/10 Time: 1325
 Lab File ID: 033F3301 Init. Calib. Date(s): 02/03/10 02/03/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1024 1114
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4664.624	4529.687	0.01	-2.9	15.0
(2)	5769.588	5840.240	0.01	1.2	15.0
(3)	2454.201	2398.191	0.01	-2.3	15.0
(4)	2198.179	2140.017	0.01	-2.6	15.0
(5)	3142.156	3094.078	0.01	-1.5	15.0
Aroclor-1260	6738.969	6514.014	0.01	-3.3	15.0
(2)	10259.796	9893.168	0.01	-3.6	15.0
(3)	6129.851	5932.698	0.01	-3.2	15.0
(4)	6385.867	6337.042	0.01	-0.8	15.0
(5)	6859.759	7304.897	0.01	6.5	15.0
4cmx	131406.10	136952.20	0.01	4.2	15.0
Decachlorobiphenyl	99981.358	99546.260	0.01	-0.4	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.: 10-1567
 Instrument ID: ECD8A Calibration Date: 02/12/10 Time: 1325
 Lab File ID: 033B3301 Init. Calib. Date(s): 02/03/10 02/03/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1024 1114
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	3766.401	3869.768	0.01	2.7	15.0
(2)	2494.427	2493.274	0.01	-0.0	15.0
(3)	1515.492	1605.277	0.01	5.9	15.0
(4)	1493.163	1415.340	0.01	-5.2	15.0
(5)	2035.618	1922.083	0.01	-5.6	15.0
Aroclor-1260	4084.417	4276.875	0.01	4.7	15.0
(2)	4968.902	5145.887	0.01	3.6	15.0
(3)	3788.418	4664.119	0.01	23.1	15.0 <-
(4)	3953.106	4133.683	0.01	4.6	15.0
(5)	6227.437	7602.227	0.01	22.1	15.0 <-
4cmx	86843.352	87572.410	0.01	0.8	15.0
Decachlorobiphenyl	64843.758	75925.500	0.01	17.1	15.0 <-

FORM VII PEST

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/002f0201.d

Lab Smp Id: WAR100203-60 01

Client Smp ID: AR166001

Inj Date : 12-FEB-2010 07:02

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100203-60 01

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m

Meth Date : 12-Feb-2010 11:13 jen01212

Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25

Cal File: 036f3601.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

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====

\$ 11 4cmx				CAS #: 877-09-8		
2.252	2.252	0.000	13913678 100.000	106	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.245	6.245	0.000	9799340 100.000	98.0	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
2.811	2.811	0.000	4548503 1000.00	975	80.00- 120.00	100.00
3.163	3.163	0.000	5603763 1000.00	971	98.17- 138.17	123.20
3.306	3.306	0.000	2323075 1000.00	946	30.98- 70.98	51.07
3.399	3.399	0.000	2073020 1000.00	943	25.80- 65.80	45.58
3.561	3.561	0.000	2985421 1000.00	950	45.68- 85.68	65.64
Average of Peak Amounts =				957		

7 Aroclor-1260				CAS #: 11096-82-5		
4.435	4.435	0.000	6360304 1000.00	944	80.00- 120.00	100.00
4.631	4.631	0.000	9595648 1000.00	935	131.83- 171.83	150.87
4.906	4.906	0.000	5825535 1000.00	950	72.34- 112.34	91.59
5.078	5.078	0.000	6234878 1000.00	976	79.25- 119.25	98.03
5.490	5.490	0.000	6996429 1000.00	1020	91.49- 131.49	110.00
Average of Peak Amounts =				965		

Data File: /chem/ecob8a.i/021210.b/002f0201.d

Date: 12-FEB-2010 07:02

Client ID: AR16001

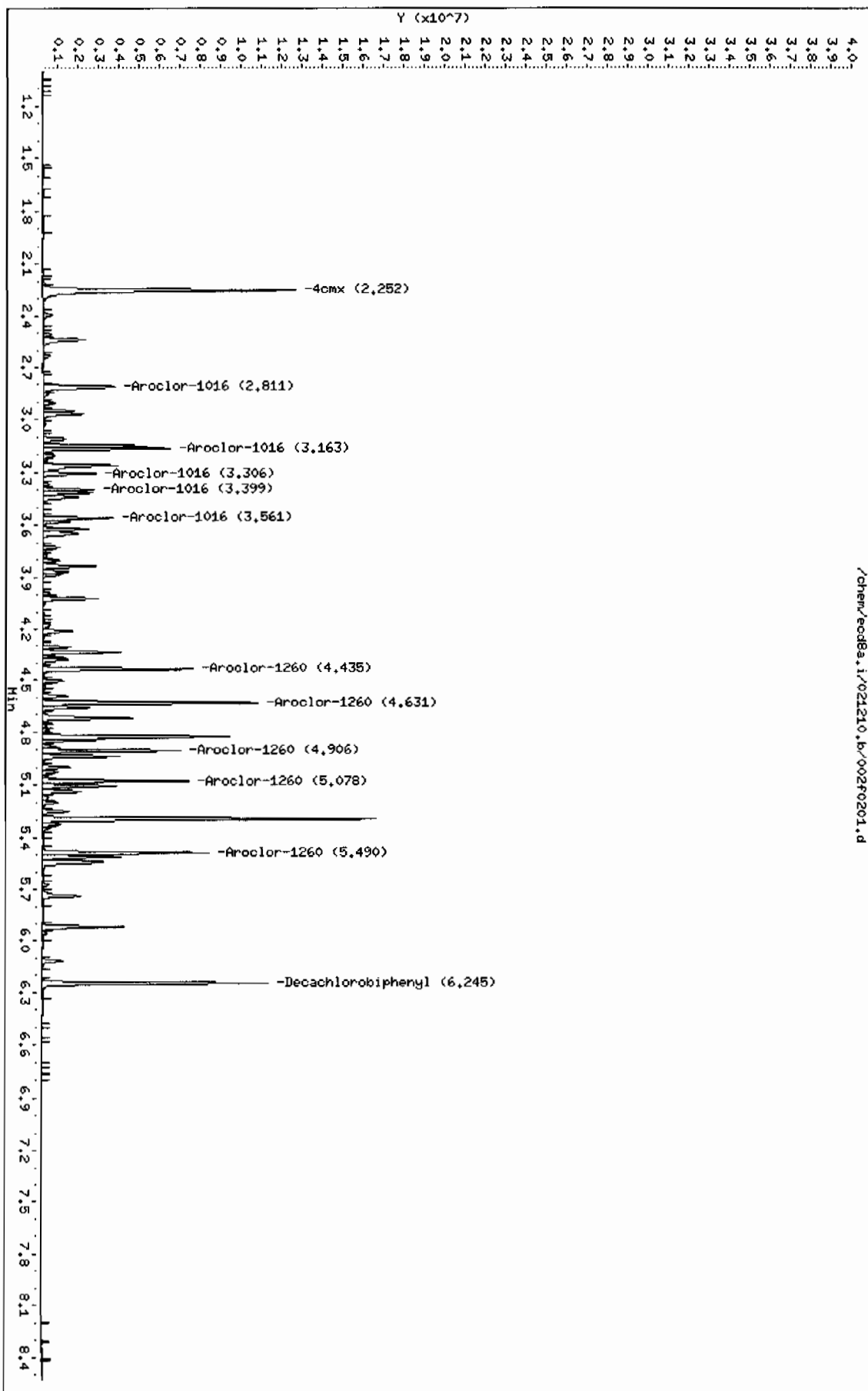
Sample Info: 114R100203-60 01

Column phase: CLP1

Instrument: ecob8a.i

Operator: JADC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/002b0201.d

Lab Smp Id: WAR100203-60 01

Client Smp ID: AR166001

Inj Date : 12-FEB-2010 07:02

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100203-60 01

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m

Meth Date : 12-Feb-2010 11:06 jen01212

Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25

Cal File: 036b3601.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		
2.486	2.486	0.000	9185972 100.000	106	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.836	6.836	0.000	6502957 100.000	100	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
3.558	3.558	0.000	3777022 1000.00	1000	80.00- 120.00	100.00
3.658	3.658	0.000	2504931 1000.00	1000	47.75- 87.75	66.32
3.734	3.734	0.000	1469541 1000.00	970	19.55- 59.55	38.91
3.809	3.809	0.000	1424437 1000.00	954	18.40- 58.40	37.71
4.006	4.006	0.000	1995100 1000.00	980	33.91- 73.91	52.82
Average of Peak Amounts =				982		

7 Aroclor-1260				CAS #: 11096-82-5		
4.919	4.919	0.000	4339858 1000.00	1060	80.00- 120.00	100.00
5.068	5.068	0.000	5272237 1000.00	1060	101.70- 141.70	121.48
5.384	5.384	0.000	4034100 1000.00	1060	73.49- 113.49	92.95
5.591	5.591	0.000	4196512 1000.00	1060	76.84- 116.84	96.70
6.023	6.023	0.000	6650370 1000.00	1070	135.34- 175.34	153.24
Average of Peak Amounts =				1.06e+03		

Data File: /chem/eod8a.i/021210.b/002b0201.d

Date: 12-FEB-2010 07:02

Client ID: AR166001

Sample Info: IMPR100203-60 01

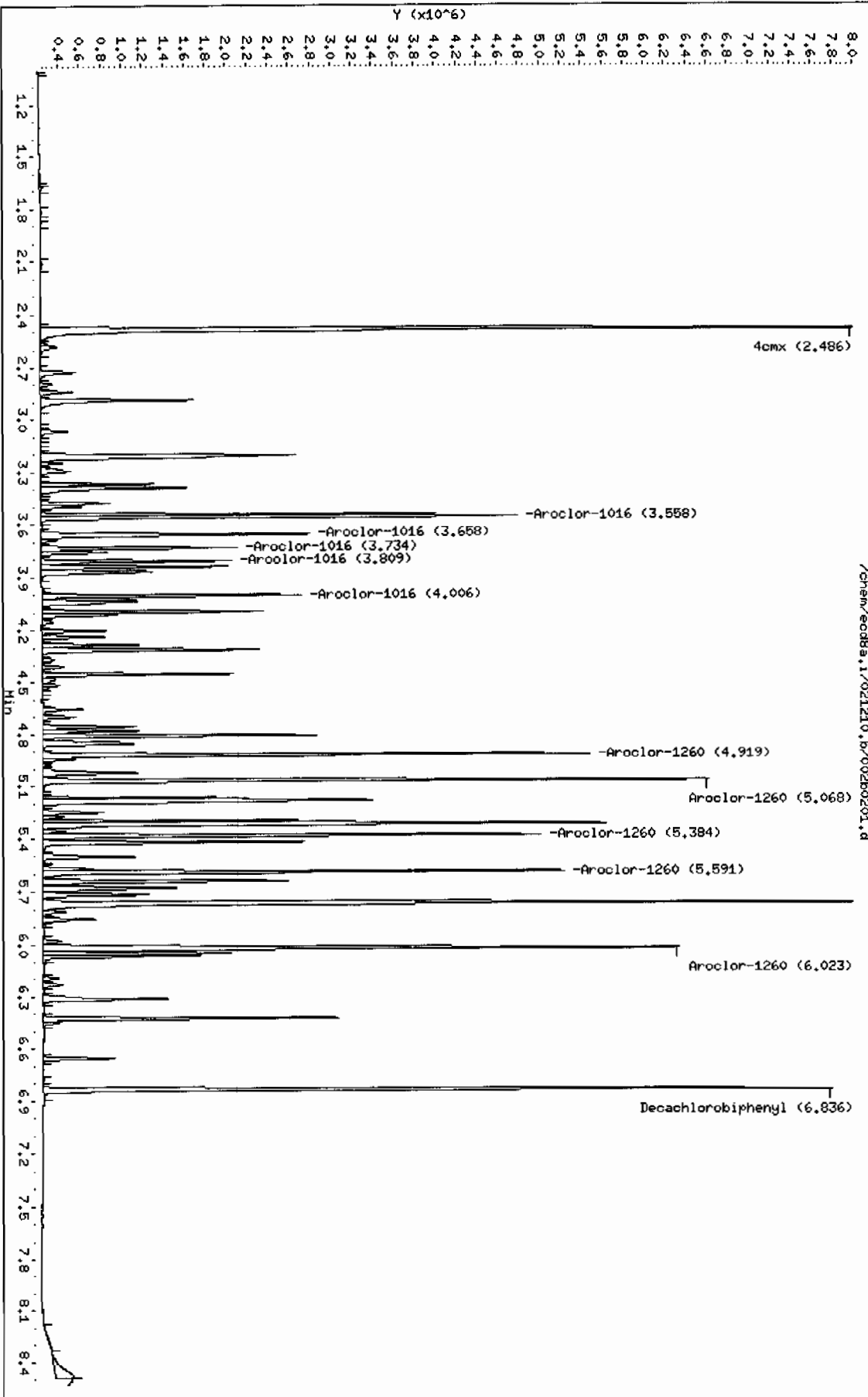
Column phase: CLP2

Instrument: eod8a.i

Operator: JHOC

Column diameter: 0.25

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Data File: /chem/ecd8a.i/021210.b/003f0301.d
Report Date: 12-Feb-2010 13:06

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/003f0301.d

Lab Smp Id: WAR100201-54

Client Smp ID: AR125401

Inj Date : 12-FEB-2010 07:14

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100201-54

Misc Info : |1254

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m

Meth Date : 12-Feb-2010 11:13 jen01212 Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25

Cal File: 036f3601.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
3.837	3.837	0.000	4792955 1000.00	1000	80.00- 120.00	100.00
4.025	4.025	0.000	6493192 1000.00	988	115.47- 155.47	135.47
4.220	4.220	0.000	4910432 1000.00	956	82.45- 122.45	102.45
4.306	4.306	0.000	8520921 1000.00	968	157.78- 197.78	177.78
4.501	4.501	0.000	6638641 1000.00	960	118.51- 158.51	138.51
Average of Peak Amounts =				975		

Data File: /chem/ecdb8a.i/021210.b/003f0301.d

Date: 12-FEB-2010 07:14

Client ID: AR125401

Sample Info: 14AR100201-54

Column phase: CLP1

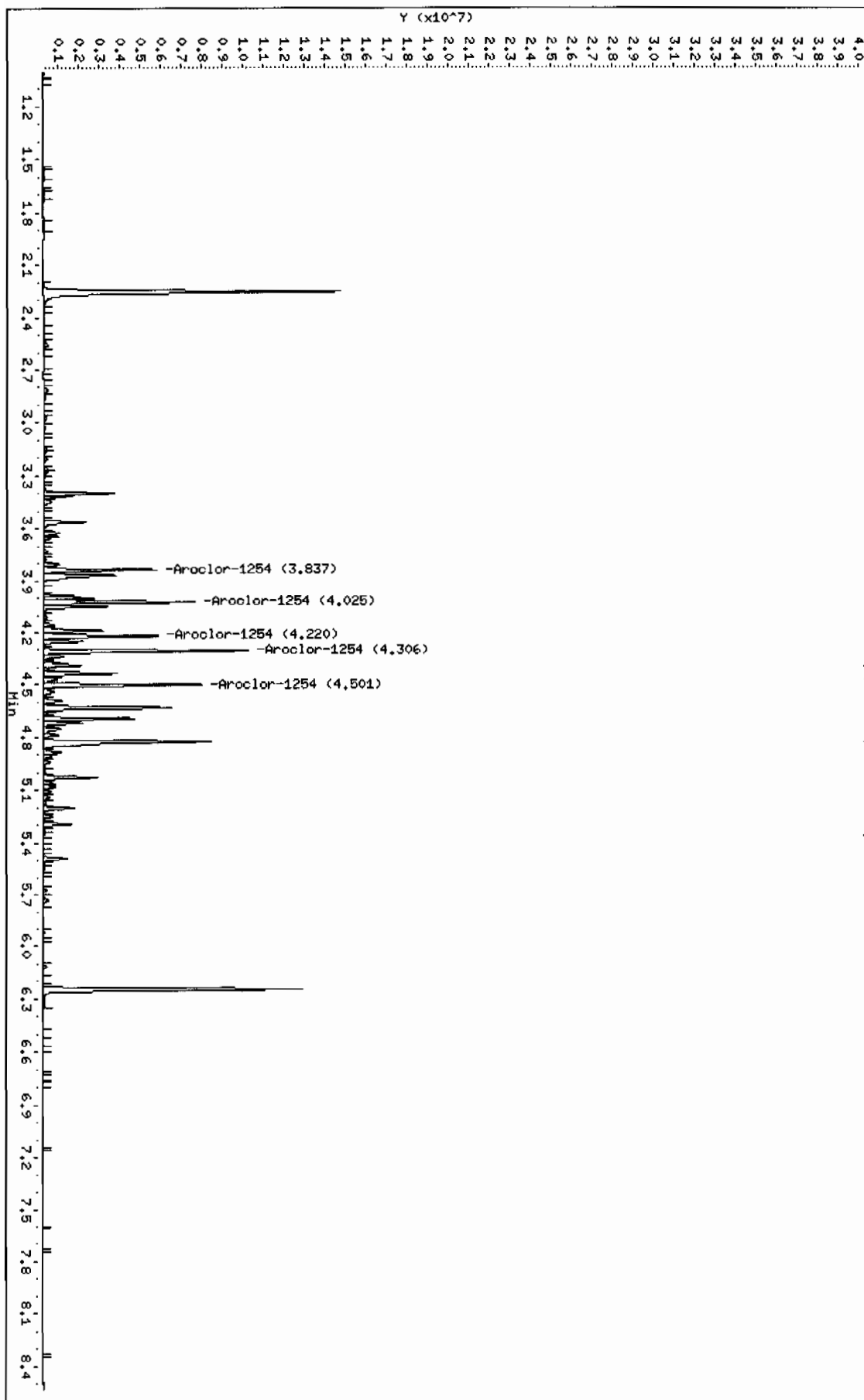
Page 1

Instrument: ecdb8a.i

Operator: JHOC

Column diameter: 0.25

/chem/ecdb8a.i/021210.b/003f0301.d



Data File: /chem/ecd8a.i/021210.b/003b0301.d
Report Date: 12-Feb-2010 13:06

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/003b0301.d

Lab Smp Id: WAR100201-54 Client Smp ID: AR125401

Inj Date : 12-FEB-2010 07:14

Operator : JAOC Inst ID: ecd8a.i

Smp Info : |WAR100201-54

Misc Info : |1254

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m

Meth Date : 12-Feb-2010 11:06 jen01212 Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.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

4.313	4.313	0.000	3619477 1000.00	1050	80.00- 120.00	100.00
4.451	4.451	0.000	4078317 1000.00	1040	92.68- 132.68	112.68
4.780	4.780	0.000	5822783 1000.00	1060	140.87- 180.87	160.87
4.942	4.942	0.000	4223178 1000.00	1050	96.68- 136.68	116.68
5.068	5.068	0.000	2674832 1000.00	1050	53.90- 93.90	73.90

Average of Peak Amounts = 1.05e+03

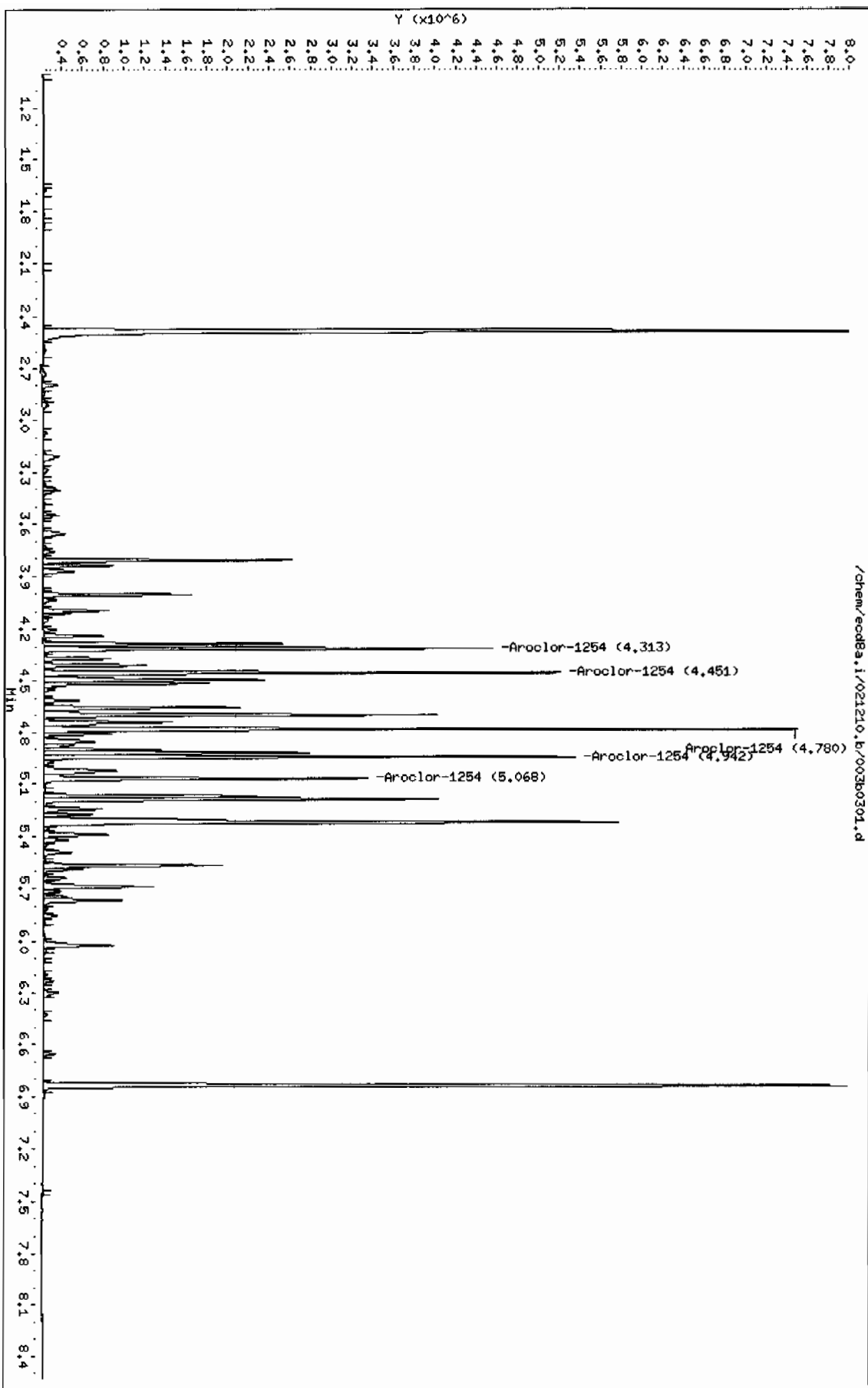
Data File: /chem/ecodba.i/021210.b/003b0301.d
Date : 12-FEB-2010 07:14
Client ID: AR125401
Sample Info: 14AR100201-54

Instrument: ecodba.i

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Column phase: CLP2

Operator: JROC
Column diameter: 0.25



Data File: /chem/ecd8a.i/021210.b/004f0401.d
Report Date: 12-Feb-2010 13:06

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/004f0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 12-FEB-2010 07:26

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR091217-42

Misc Info : |1242

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m

Meth Date : 12-Feb-2010 11:13 jen01212 Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25

Cal File: 036f3601.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			
2.812	2.812	0.000	3721427 1000.00	936	80.00- 120.00	100.00
3.164	3.164	0.000	4447831 1000.00	927	99.52- 139.52	119.52
3.400	3.400	0.000	1643502 1000.00	910	24.16- 64.16	44.16
3.417	3.417	0.000	1688795 1000.00	894	25.38- 65.38	45.38
3.562	3.562	0.000	2416012 1000.00	913	44.92- 84.92	64.92

Average of Peak Amounts = 916

Data File: /chem/ecod8a.i/021210.b/004f0401.d

Date: 12-FEB-2010 07:26

Client ID: AR124201

Sample Info: 14R091217-42

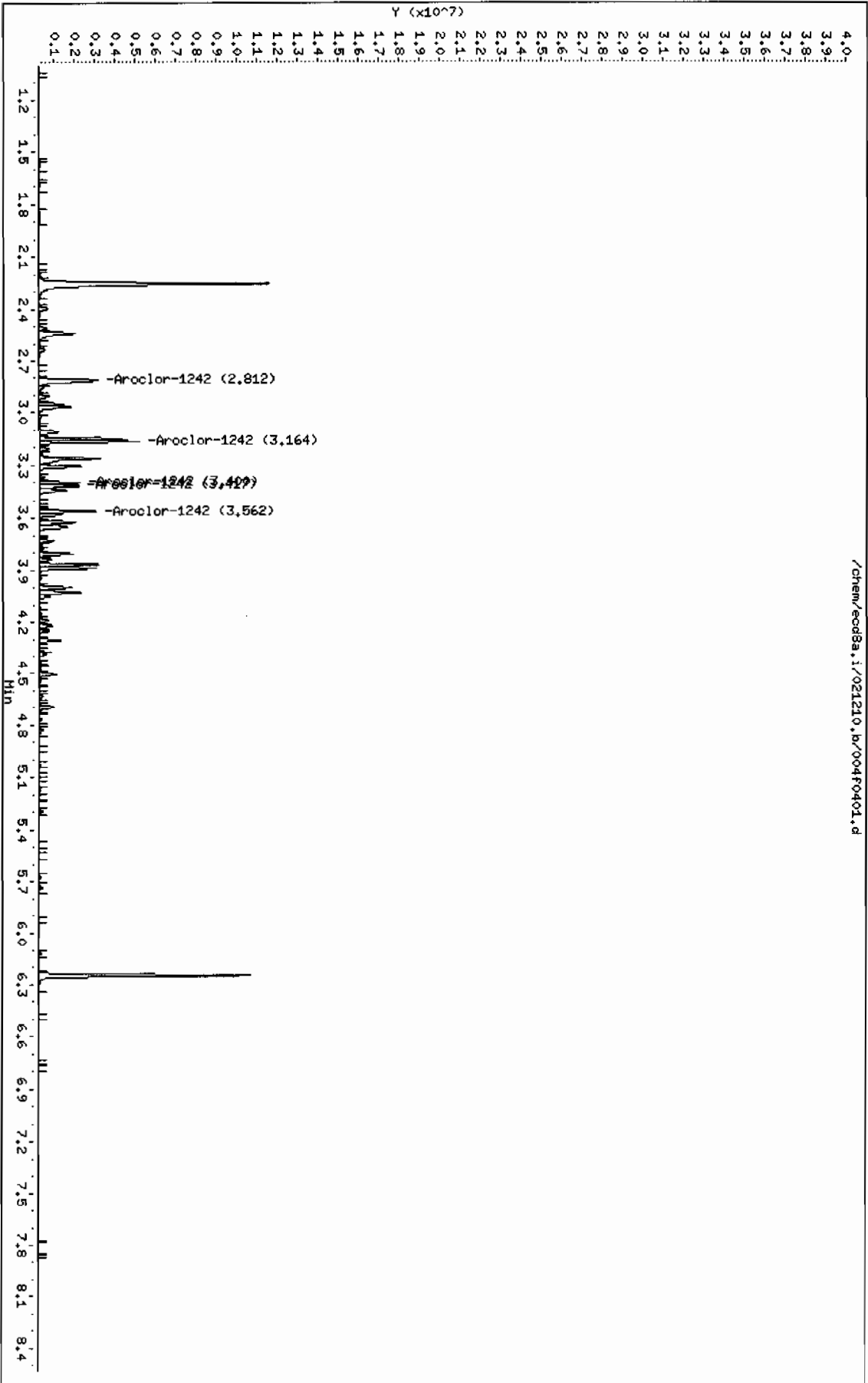
Column phase: CLP1

Instrument: ecod8a.i

Operator: JAC

Column diameter: 0.25

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Data File: /chem/ecd8a.i/021210.b/004b0401.d
Report Date: 12-Feb-2010 13:06

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/004b0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 12-FEB-2010 07:26

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR091217-42

Misc Info : |1242

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m

Meth Date : 12-Feb-2010 11:06 jen01212 Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25

Cal File: 036b3601.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
3.206	3.206	0.000	2518361	1000.00	941 80.00- 120.00	100.00
3.559	3.559	0.000	2915172	1000.00	933 95.76- 135.76	115.76
3.659	3.659	0.000	2010413	1000.00	945 59.83- 99.83	79.83
4.006	4.006	0.000	1576801	1000.00	926 42.61- 82.61	62.61
4.096	4.096	0.000	1486237	1000.00	949 39.02- 79.02	59.02

Average of Peak Amounts =

939

Data File: /chem/ecob8a.i/021210.b/004b0401.d

Date: 12-FEB-2010 07:26

Client ID: AR124201

Sample Info: 1MRO91217-42

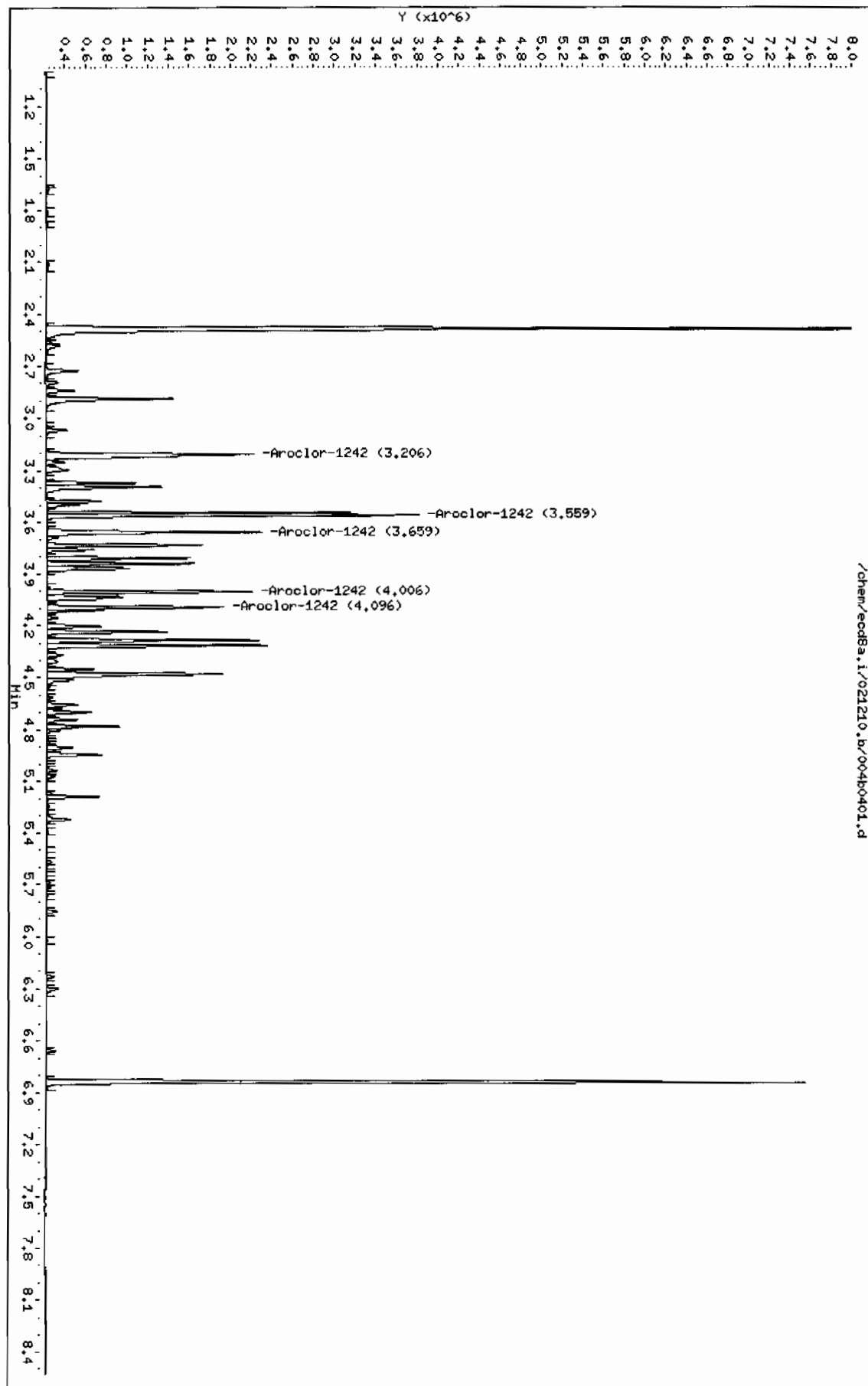
Column phase: CLP2

Instrument: ecob8a.i

Operator: JAOC

Column diameter: 0.25

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Data File: /chem/ecd8a.i/021210.b/005f0501.d
Report Date: 12-Feb-2010 13:06

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/005f0501.d

Lab Smp Id: WAR091217-48 Client Smp ID: AR124801

Inj Date : 12-FEB-2010 07:38

Operator : JAOC Inst ID: ecd8a.i

Smp Info : |WAR091217-48

Misc Info : |1248

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m

Meth Date : 12-Feb-2010 11:13 jen01212 Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.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			
3.148	3.148	0.000	2353370	1000.00	787 80.00- 120.00	100.00
3.399	3.399	0.000	3094483	1000.00	809 111.49- 151.49	131.49
3.562	3.562	0.000	4049295	1000.00	810 152.06- 192.06	172.06
3.867	3.867	0.000	4836876	1000.00	808 185.53- 225.53	205.53
4.027	4.027	0.000	3828514	1000.00	793 142.68- 182.68	162.68

Average of Peak Amounts = 801

Data File: /chem/ecd8a.i/021210.b/005f0501.d

Date : 12-FEB-2010 07:38

Client ID: AR124801

Sample Info: 14R091217-48

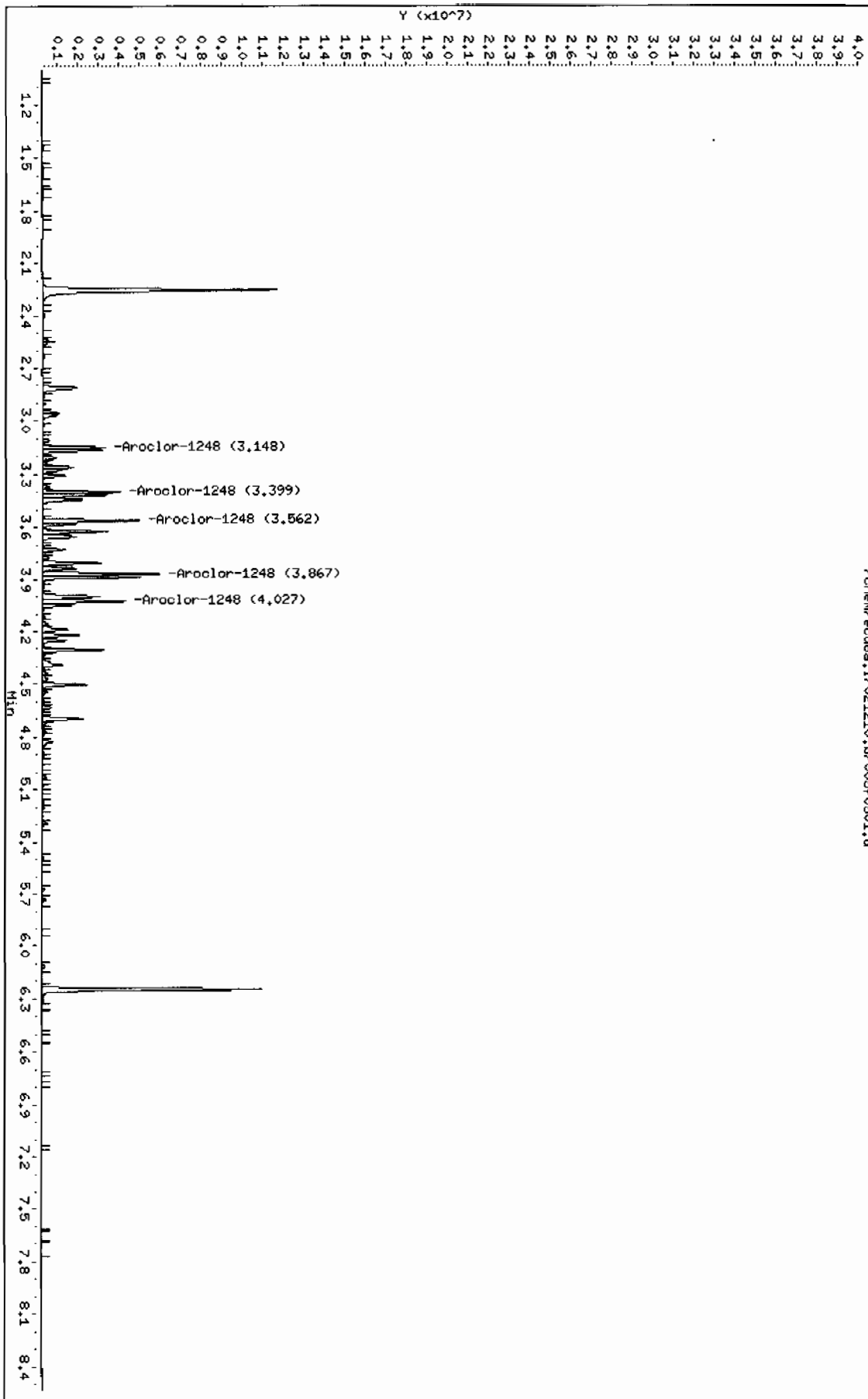
Column phase: CLP1

Instrument: ecd8a.i

Operator: JROC

Column diameter: 0.25

/chem/ecd8a.i/021210.b/005f0501.d



Data File: /chem/ecd8a.i/021210.b/005b0501.d
Report Date: 12-Feb-2010 13:06

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/005b0501.d

Lab Smp Id: WAR091217-48

Client Smp ID: AR124801

Inj Date : 12-FEB-2010 07:38

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR091217-48

Misc Info : |1248

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m

Meth Date : 12-Feb-2010 11:06 jen01212

Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25

Cal File: 036b3601.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)	TARGET RANGE	RATIO
----	--------	--------	------------------	--------------	-------

5 Aroclor-1248

CAS #: 12672-29-6

3.657	3.657	0.000	1278541 1000.00	896 80.00- 120.00	100.00
3.810	3.810	0.000	2151154 1000.00	872 148.25- 188.25	168.25
4.006	4.006	0.000	2705822 1000.00	876 191.63- 231.63	211.63
4.284	4.284	0.000	3187472 1000.00	874 229.31- 269.31	249.31
4.317	4.317	0.000	3516359 1000.00	878 255.03- 295.03	275.03

Average of Peak Amounts =

879

Data File: /chem/ecob8a.i/021210.b/005b0501.d

Date: 12-FEB-2010 07:38

Client ID: AR124801

Sample Info: 1MAR091217-48

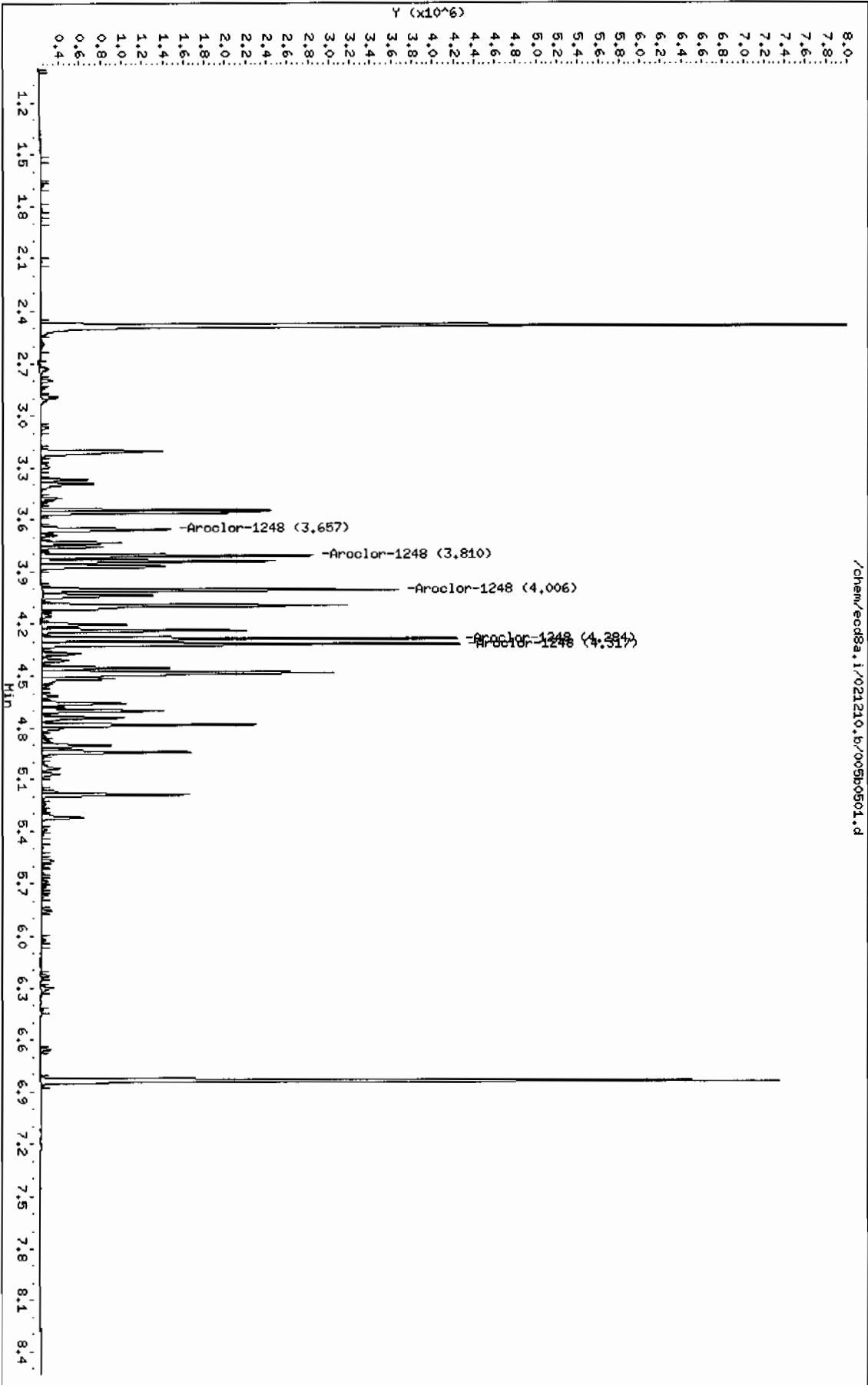
Column Phase: CLP2

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Instrument: ecob8a.i

Operator: JHOC

Column diameter: 0.25



Data File: /chem/ecd8a.i/021210.b/006f0601.d
Report Date: 12-Feb-2010 13:06

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/006f0601.d

Lab Smp Id: WAR100104-32 Client Smp ID: AR123201

Inj Date : 12-FEB-2010 07:51

Operator : JAOC Inst ID: ecd8a.i

Smp Info : |WAR100104-32

Misc Info : |1232

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m

Meth Date : 12-Feb-2010 11:13 jen01212 Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.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	ON-COL	RESPONSE (ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
3 Aroclor-1232			CAS #: 11141-16-5				
2.541	2.541	0.000	2439278	1000.00	938	80.00- 120.00	100.00
2.812	2.812	0.000	2151380	1000.00	952	68.20- 108.20	88.20
3.308	3.308	0.000	1097887	1000.00	883	25.01- 65.01	45.01
3.562	3.562	0.000	1342194	1000.00	908	35.02- 75.02	55.02
3.624	3.624	0.000	820349	1000.00	889	13.63- 53.63	33.63
Average of Peak Amounts ~				914			

Data File: /chem/ecdb8a.i/021210.b/006f0601.d

Date: 12-FEB-2010 07:51

Client ID: AR123201

Sample Info: IARR100104-32

Column phase: CLP1

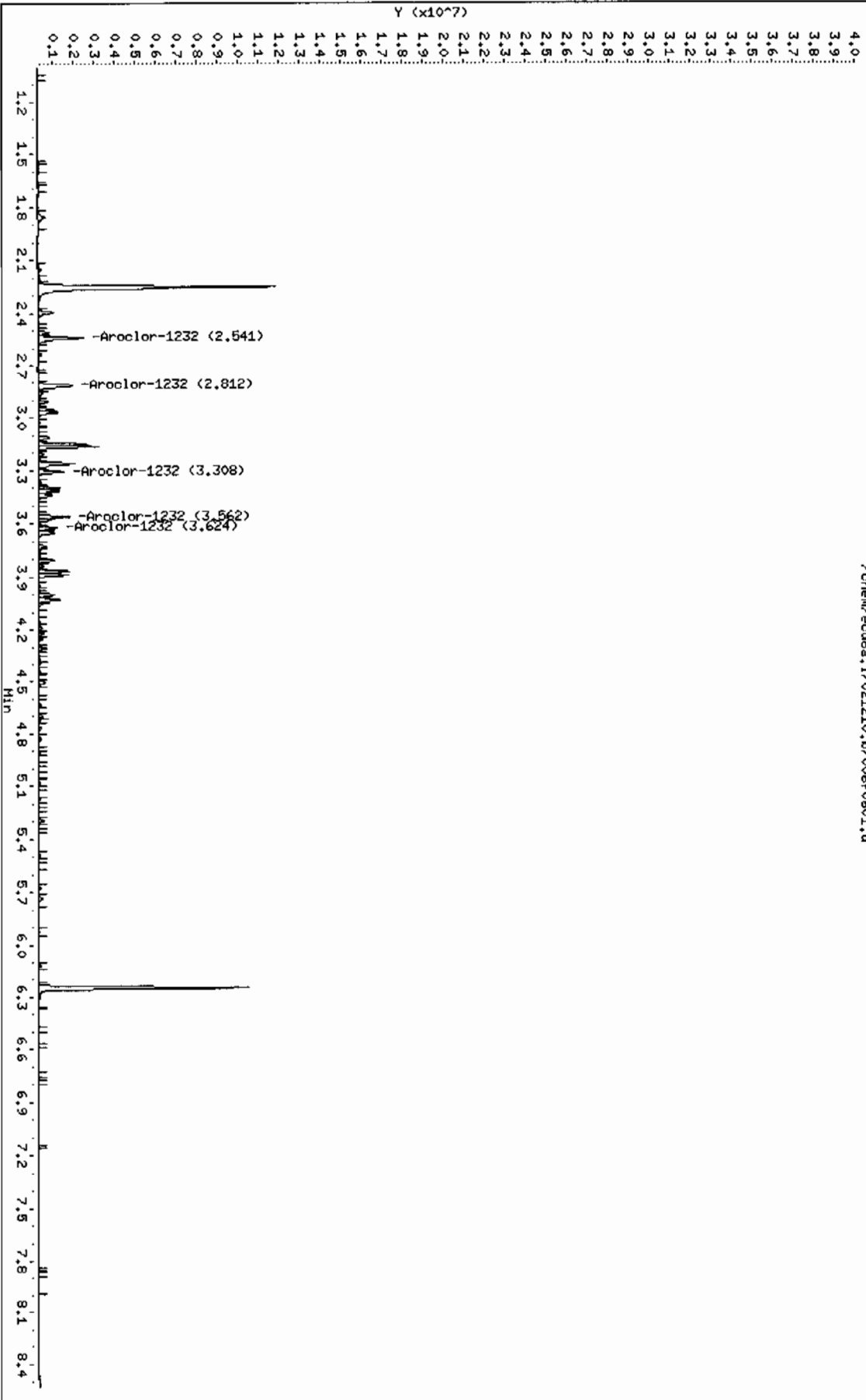
Page 1

Instrument: ecdb8a.i

Operator: JHOC

Column diameter: 0.25

/chem/ecdb8a.i/021210.b/006f0601.d



Data File: /chem/ecd8a.i/021210.b/006b0601.d
Report Date: 12-Feb-2010 13:06

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/006b0601.d
Lab Smp Id: WAR100104-32 Client Smp ID: AR123201
Inj Date : 12-FEB-2010 07:51
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-32
Misc Info : |1232
Comment :
Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m
Meth Date : 12-Feb-2010 11:06 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.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
3.207	3.207	0.000	1484066 1000.00	980	80.00- 120.00	100.00
3.560	3.560	0.000	1629700 1000.00	934	89.81- 129.81	109.81
3.659	3.659	0.000	1148925 1000.00	976	57.42- 97.42	77.42
3.735	3.735	0.000	677509 1000.00	954	25.65- 65.65	45.65
3.810	3.810	0.000	592816 1000.00	959	19.95- 59.95	39.95
Average of Peak Amounts =				961		

Data File: /chem/ecod8a.i/021210.b/006b0601.d

Date: 12-FEB-2010 07:51

Client ID: AR123204

Sample Info: 1MR100104-32

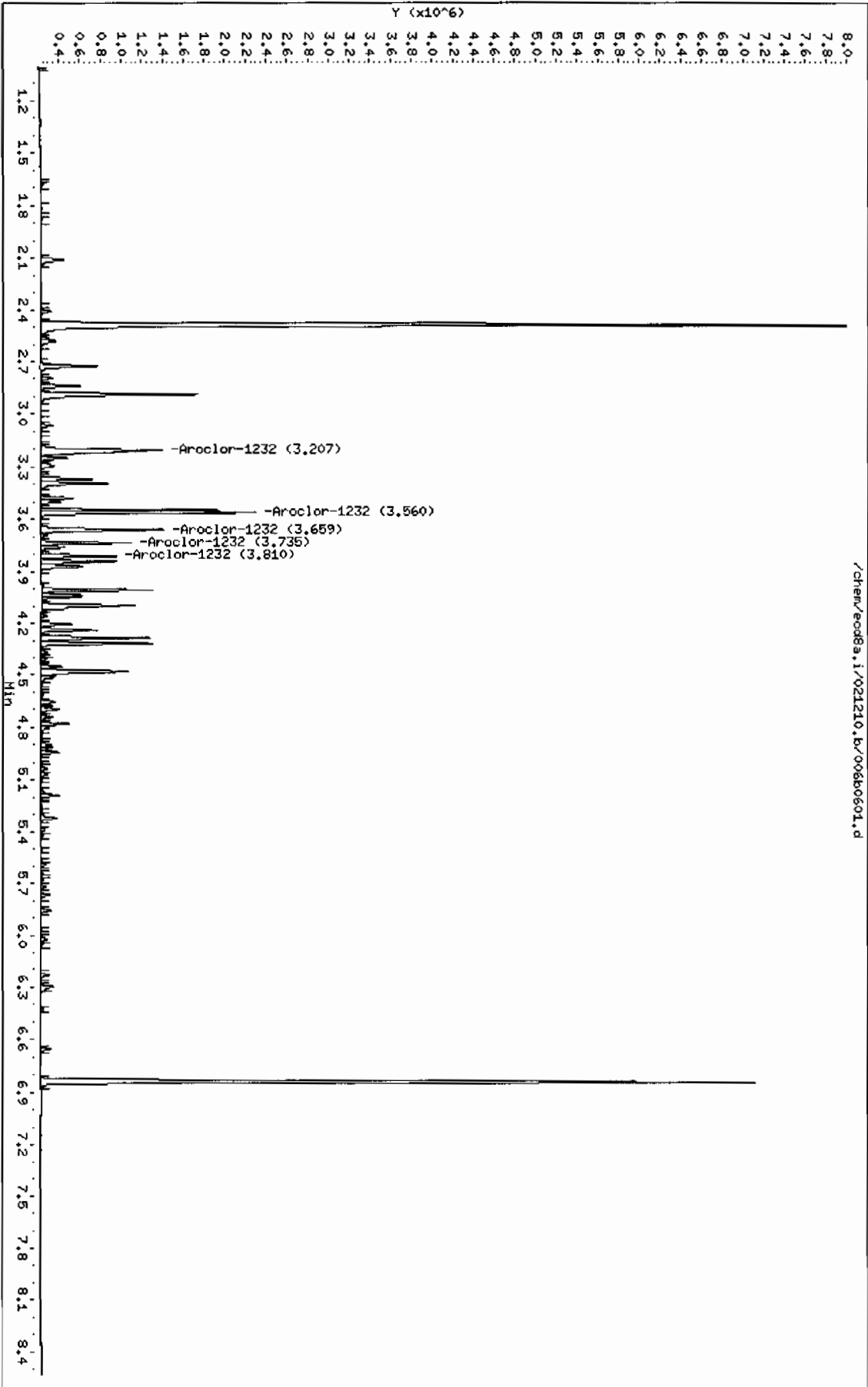
Column phase: CLP2

Instrument: ecod8a.i

Operator: JROC

Column diameter: 0.25

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Data File: /chem/ecd8a.i/021210.b/007f0701.d
Report Date: 12-Feb-2010 13:07

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/007f0701.d
Lab Smp Id: WAR100104-21 Client Smp ID: AR122101
Inj Date : 12-FEB-2010 08:03
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-21
Misc Info : |1221
Comment :
Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m
Meth Date : 12-Feb-2010 11:13 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.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
1.855	1.855	0.000	1199847 1000.00	1090	80.00- 120.00	100.00
2.394	2.394	0.000	1489304 1000.00	1020	104.12- 144.12	124.12
2.541	2.541	0.000	3334932 1000.00	985	257.95- 297.95	277.95
Average of Peak Amounts =			1.03e+03			

Data File: /chem/ecod8a.i/021210.b/007f0701.d

Date: 12-FEB-2010 08:03

Client ID: AR122101

Sample Info: 1MAR100104-21

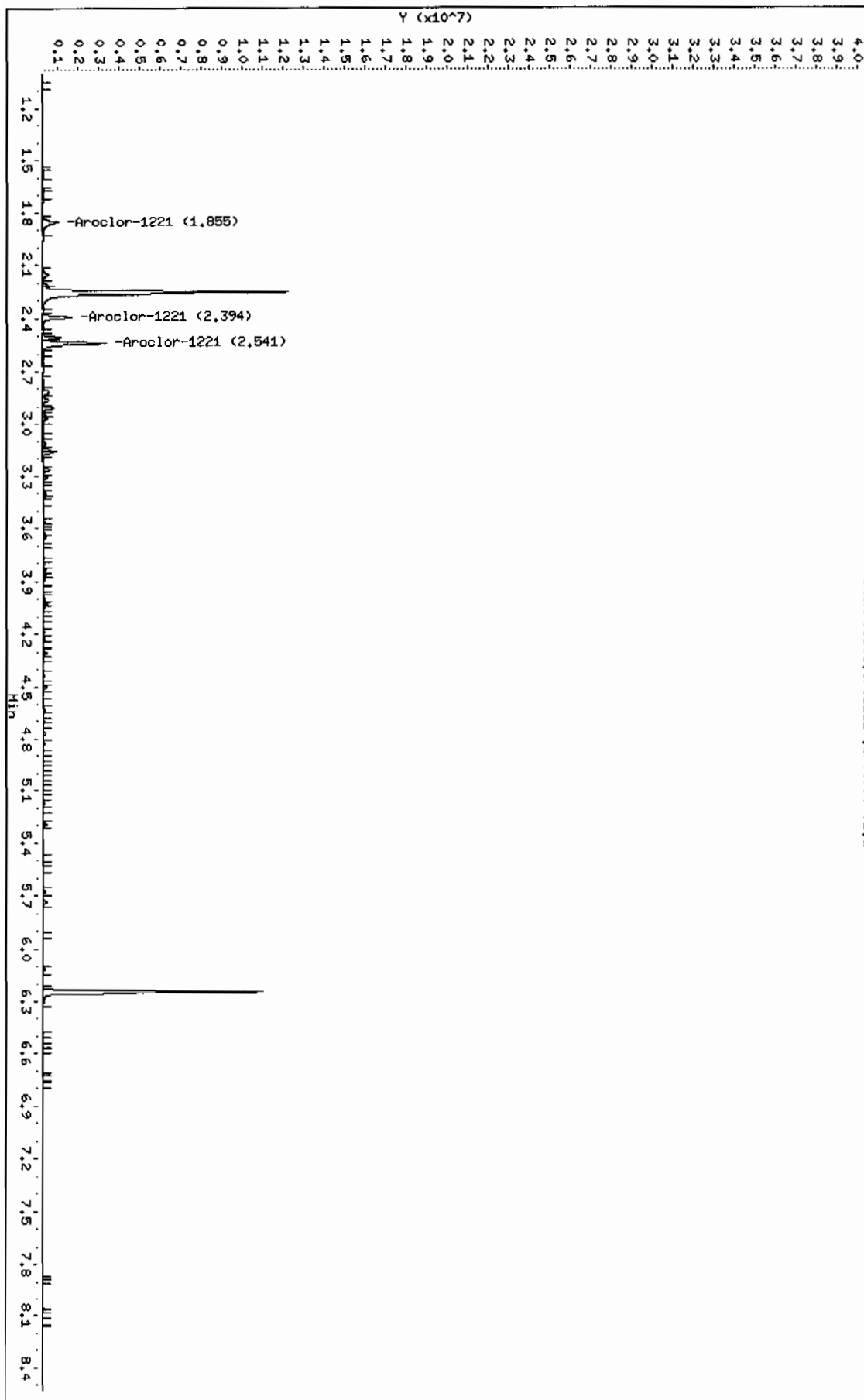
Column phase: CLP1

Instrument: ecod8a.i

Operator: JADC

Column diameter: 0.25

/chem/ecod8a.i/021210.b/007f0701.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/007b0701.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 12-FEB-2010 08:03

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100104-21

Misc Info : |1221

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m

Meth Date : 12-Feb-2010 11:06 jen01212

Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25

Cal File: 036b3601.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

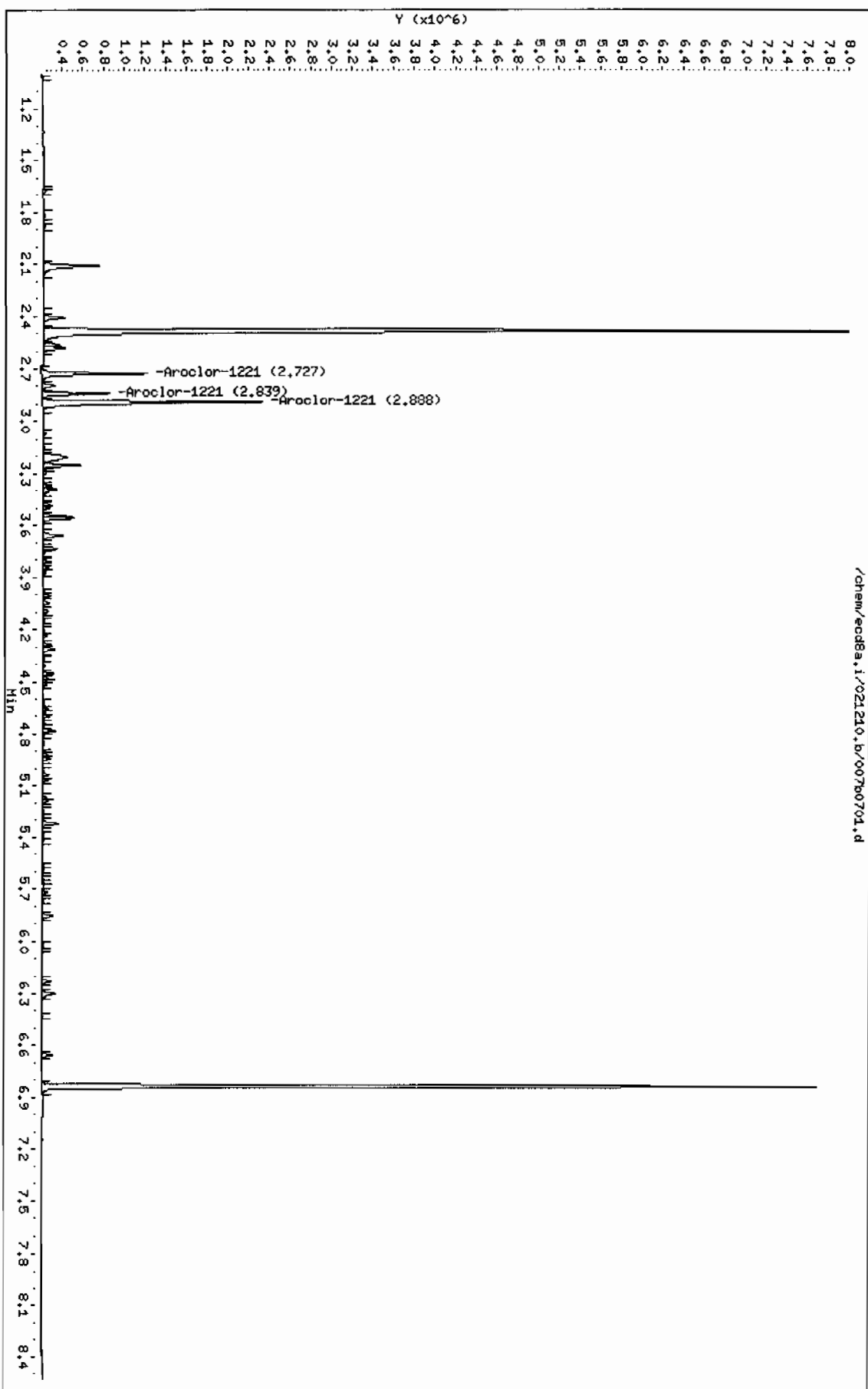
			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
2 Aroclor-1221					CAS #: 11104-28-2			
2.727	2.727	0.000	978372	1000.00	1090	80.00-	120.00	100.00
2.839	2.839	0.000	583525	1000.00	1050	39.64-	79.64	59.64
2.888	2.888	0.000	2087832	1000.00	1010	193.40-	233.40	213.40
Average of Peak Amounts =					1.05e+03			

Data File: /chem/ecd8a,i/021210,b/007b0701.d
Date: 12-FEB-2010 08:03
Client ID: AR122101
Sample Info: 1MAR100104-21

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Column phase: CLP2

Instrument: ecd8a,i
Operator: JROC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/021f2101.d

Lab Smp Id: WAR100203-60 02

Client Smp ID: AR166002

Inj Date : 12-FEB-2010 10:56

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100203-60 02

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m

Meth Date : 12-Feb-2010 11:13 jen01212 Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25

Cal File: 036f3601.d

Als bottle: 21

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		
2.254	2.252	0.002	13428487 100.000	102	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.247	6.245	0.002	9639395 100.000	96.4	80.00- 120.00	100.00 (M)

1 Aroclor-1016				CAS #: 12674-11-2		
2.813	2.811	0.002	4427289 1000.00	949	80.00- 120.00	100.00
3.164	3.163	0.001	5231669 1000.00	907	98.17- 138.17	118.17
3.308	3.306	0.002	2257198 1000.00	920	30.98- 70.98	50.98
3.399	3.399	0.000	2027637 1000.00	922	25.80- 65.80	45.80
3.562	3.561	0.001	2907902 1000.00	925	45.68- 85.68	65.68
Average of Peak Amounts =				925		

7 Aroclor-1260				CAS #: 11096-82-5		
4.436	4.435	0.001	6210653 1000.00	922	80.00- 120.00	100.00 (M)
4.632	4.631	0.001	9429792 1000.00	919	131.83- 171.83	151.83
4.907	4.906	0.001	5734817 1000.00	936	72.34- 112.34	92.34
5.079	5.078	0.001	6164329 1000.00	965	79.25- 119.25	99.25
5.490	5.490	0.000	6924069 1000.00	1010	91.49- 131.49	111.49
Average of Peak Amounts =				950		

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecd8a.i/021210.b/021f2101.d

Date: 12-FEB-2010 10:56

Client ID: AR166002

Sample Info: IMR100203-60 02

Page 1

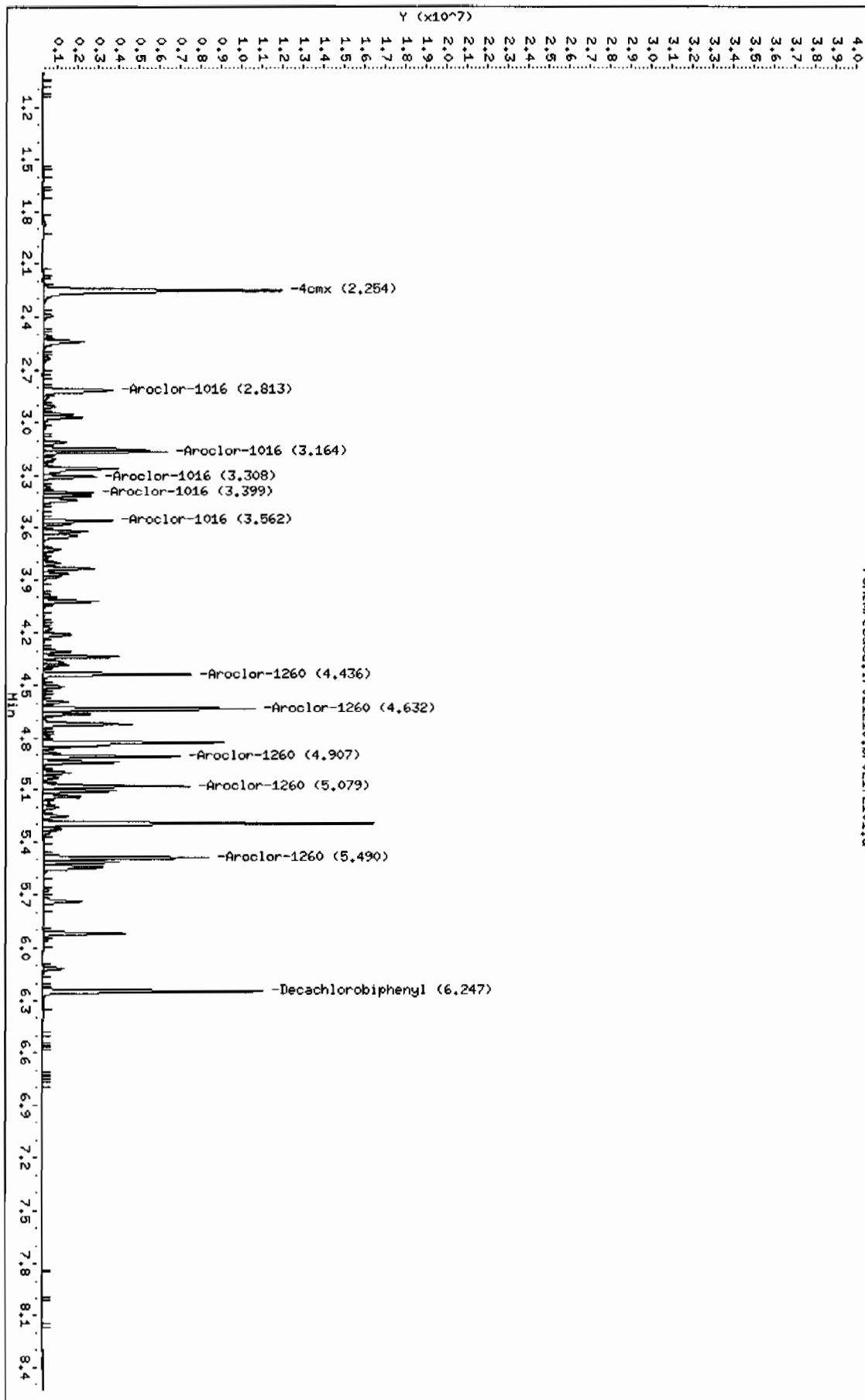
Instrument: ecd8a.i

Operator: JHOC

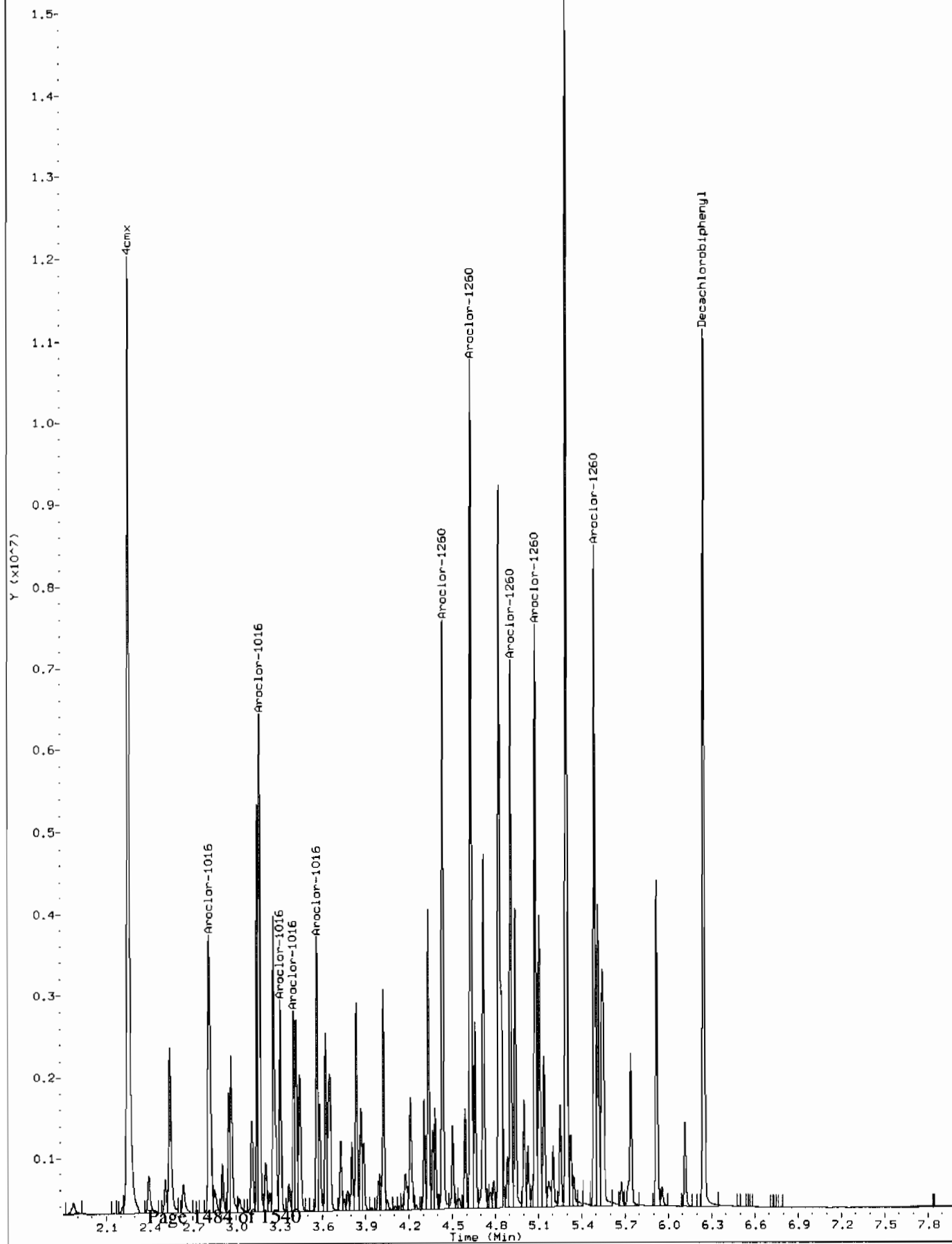
Column diameter: 0.25

Column phase: CLP1

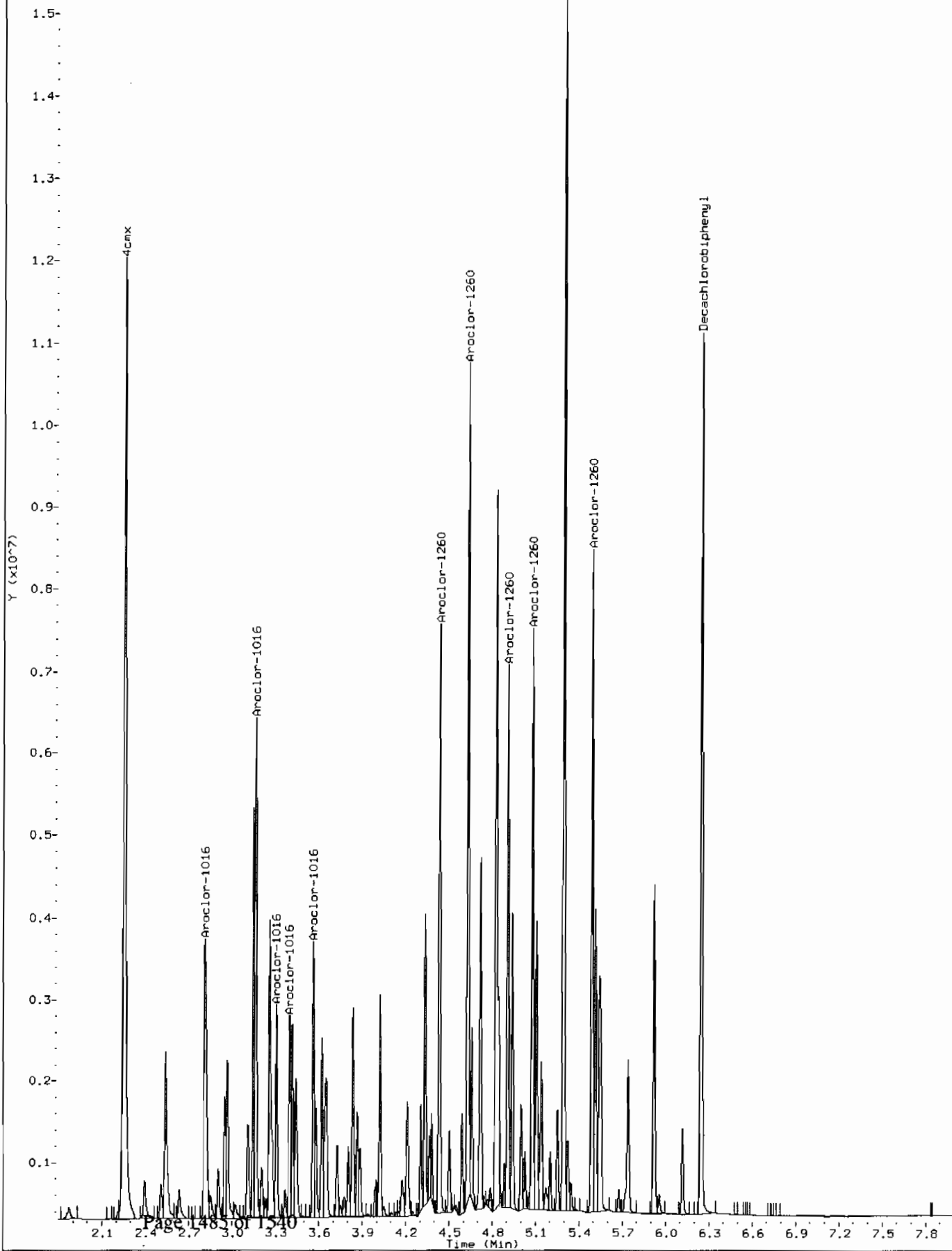
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Comment: Manually Integrated
Data File: /chem/ecd8a.i/021210.b/021f2101.d
Operator: JAOC
Injection Date: 12-FEB-2010 10:56
Instrument: ecd8a.i
Client Sample ID: AR166002



Comment: Before manual integration
Data File: /chem/ecd8a.i/021210.b/orig-021f2101.d
Operator: JAOC
Injection Date: 12-FEB-2010 10:56
Instrument: ecd8a.i
Client Sample ID: AR166002



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/021b2101.d
 Lab Smp Id: WAR100203-60 02 Client Smp ID: AR166002
 Inj Date : 12-FEB-2010 10:56
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |WAR100203-60 02
 Misc Info : |1660
 Comment :
 Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m
 Meth Date : 12-Feb-2010 11:06 jen01212 Quant Type: ESTD
 Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d
 Als bottle: 21 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	
2.487	2.486	0.001	8806549 100.000	101	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
6.837	6.836	0.001	6378014 100.000	98.4	80.00- 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2	
3.559	3.558	0.001	3579581 1000.00	950	80.00- 120.00	100.00
3.659	3.658	0.001	2425108 1000.00	972	47.75- 87.75	67.75
3.735	3.734	0.001	1415841 1000.00	934	19.55- 59.55	39.55
3.809	3.809	0.000	1374673 1000.00	921	18.40- 58.40	38.40
4.006	4.006	0.000	1929912 1000.00	948	33.91- 73.91	53.91
Average of Peak Amounts =				945		

7 Aroclor-1260					CAS #: 11096-82-5	
4.920	4.919	0.001	4222628 1000.00	1030	80.00- 120.00	100.00
5.069	5.068	0.001	5138980 1000.00	1030	101.70- 141.70	121.70
5.385	5.384	0.001	3947606 1000.00	1040	73.49- 113.49	93.49
5.592	5.591	0.001	4089217 1000.00	1030	76.84- 116.84	96.84
6.024	6.023	0.001	6559427 1000.00	1050	135.34- 175.34	155.34
Average of Peak Amounts =				1.04e+03		

Data File: /chem/eod8a.i/021210.b/021b2101.d

Date : 12-FEB-2010 10:56

Client ID: AR166002

Sample Info: 14MR100203-60 02

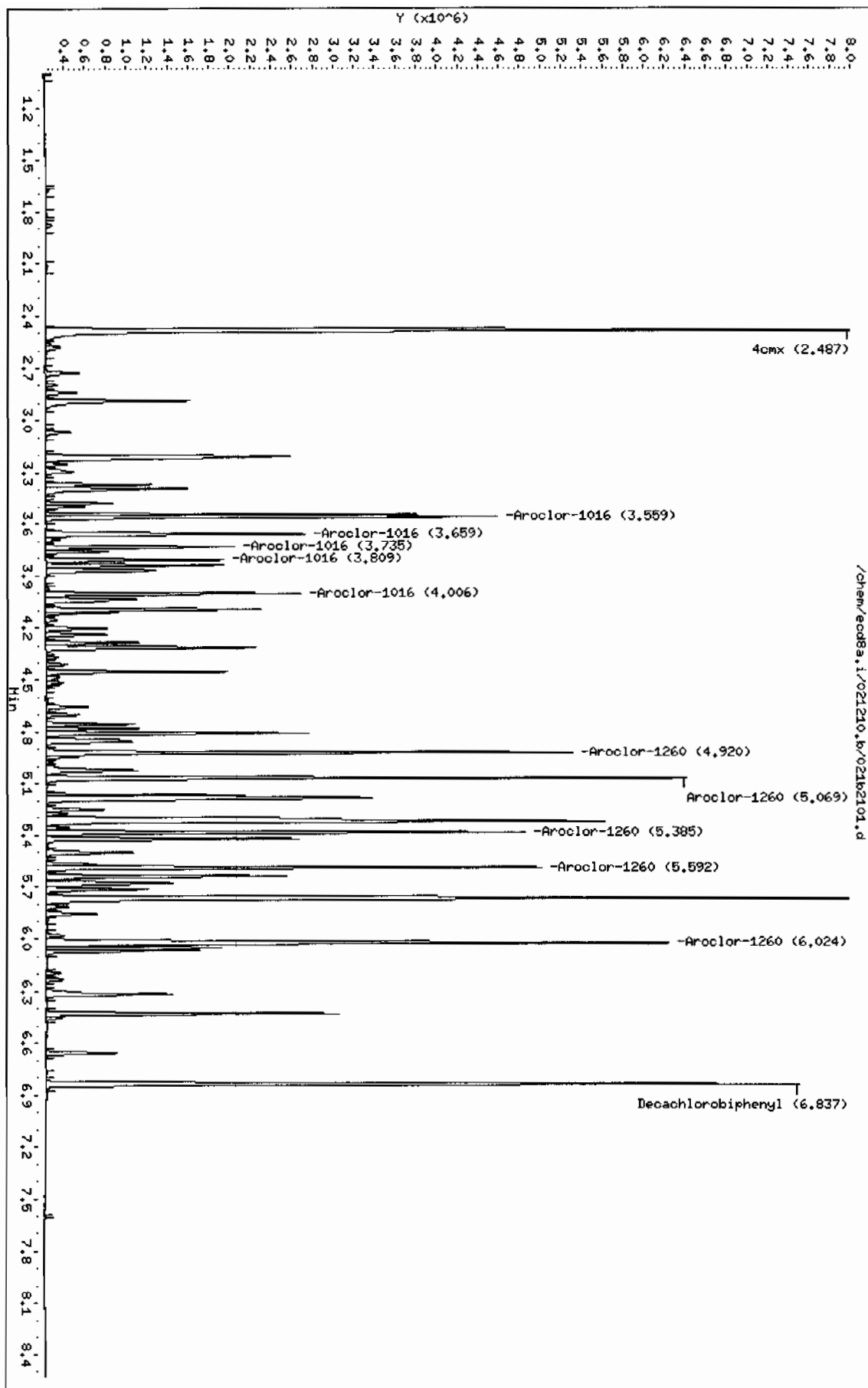
Page 1

Column phase: CLP2

Instrument: eod8a.i

Operator: JROC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/033f3301.d

Lab Smp Id: WAR100203-60 03

Client Smp ID: AR166003

Inj Date : 12-FEB-2010 13:25

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100203-60 03

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m

Meth Date : 12-Feb-2010 13:38 jen01212 Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25

Cal File: 036f3601.d

Als bottle: 33

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		
2.254	2.252	0.002	13695220 100.000	104	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.246	6.245	0.001	9954626 100.000	99.6	80.00- 120.00	100.00 (M)

1 Aroclor-1016				CAS #: 12674-11-2		
2.811	2.811	0.000	4529687 1000.00	971	80.00- 120.00	100.00 (M)
3.164	3.163	0.001	5840240 1000.00	1010	108.93- 148.93	128.93
3.307	3.306	0.001	2398191 1000.00	977	32.94- 72.94	52.94
3.399	3.399	0.000	2140017 1000.00	974	27.24- 67.24	47.24
3.561	3.561	0.000	3094078 1000.00	985	48.31- 88.31	68.31
Average of Peak Amounts =				984		

7 Aroclor-1260				CAS #: 11096-82-5		
4.436	4.435	0.001	6514014 1000.00	967	80.00- 120.00	100.00 (M)
4.631	4.631	0.000	9893168 1000.00	964	131.88- 171.88	151.88
4.906	4.906	0.000	5932698 1000.00	968	71.08- 111.08	91.08
5.079	5.078	0.001	6337042 1000.00	992	77.28- 117.28	97.28
5.490	5.490	0.000	7304897 1000.00	1060	92.14- 132.14	112.14
Average of Peak Amounts =				991		

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/eod8a.i/021210.b/033F3301.d

Date: 12-FEB-2010 13:25

Client ID: AR166003

Sample Info: 1MR100203-60 03

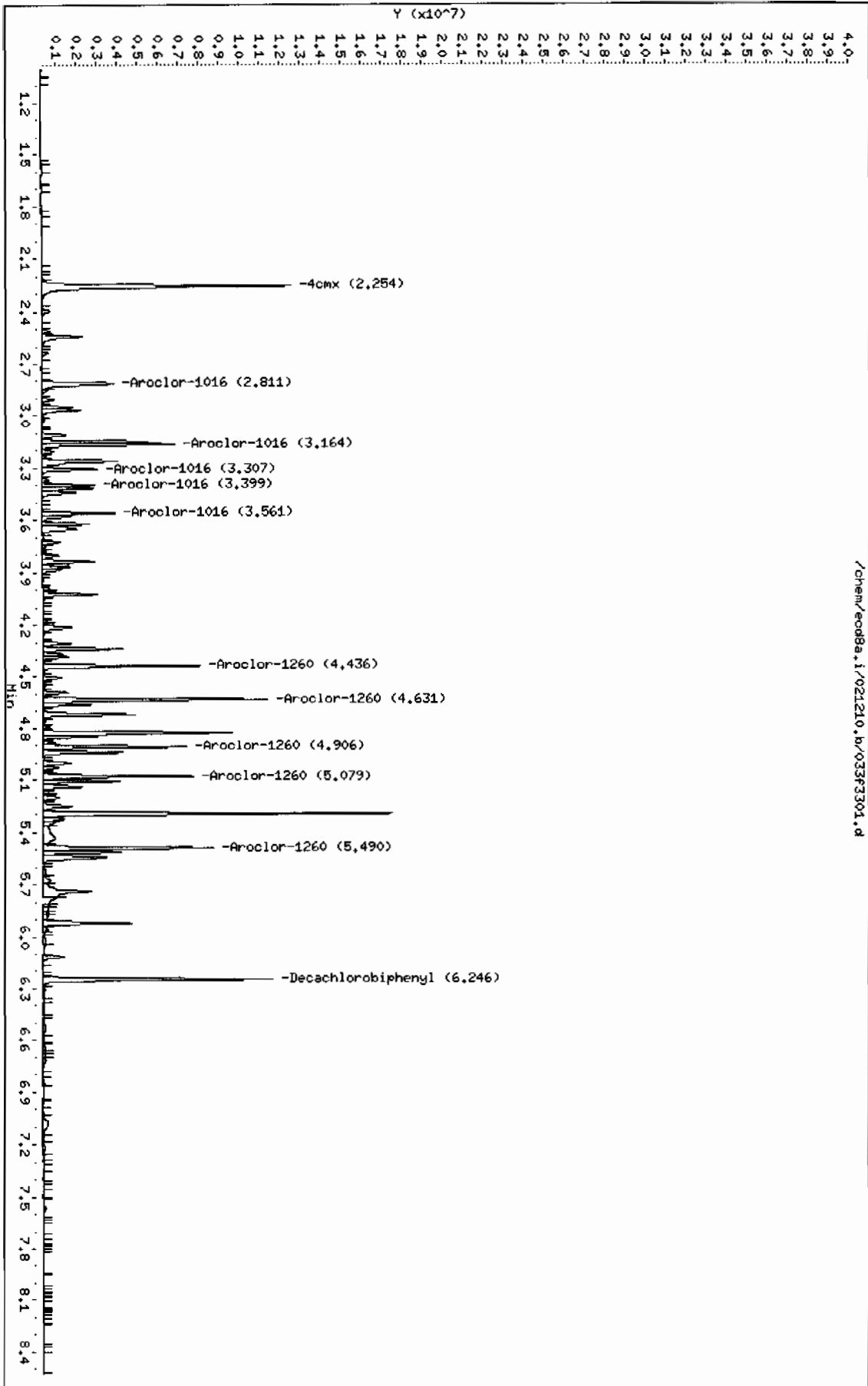
Column phase: CLP1

Instrument: eod8a.i

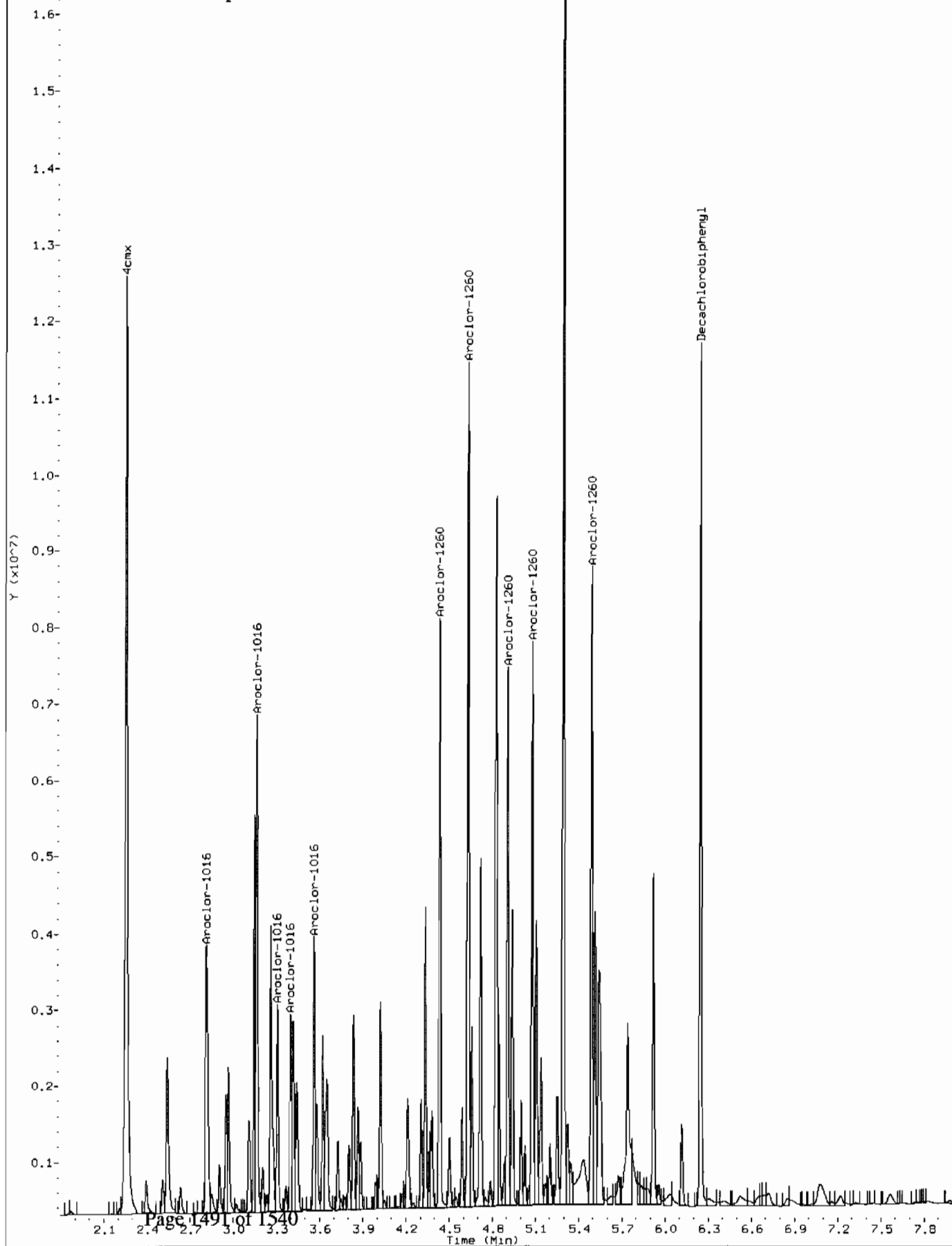
Operator: JHQC

Column diameter: 0.25

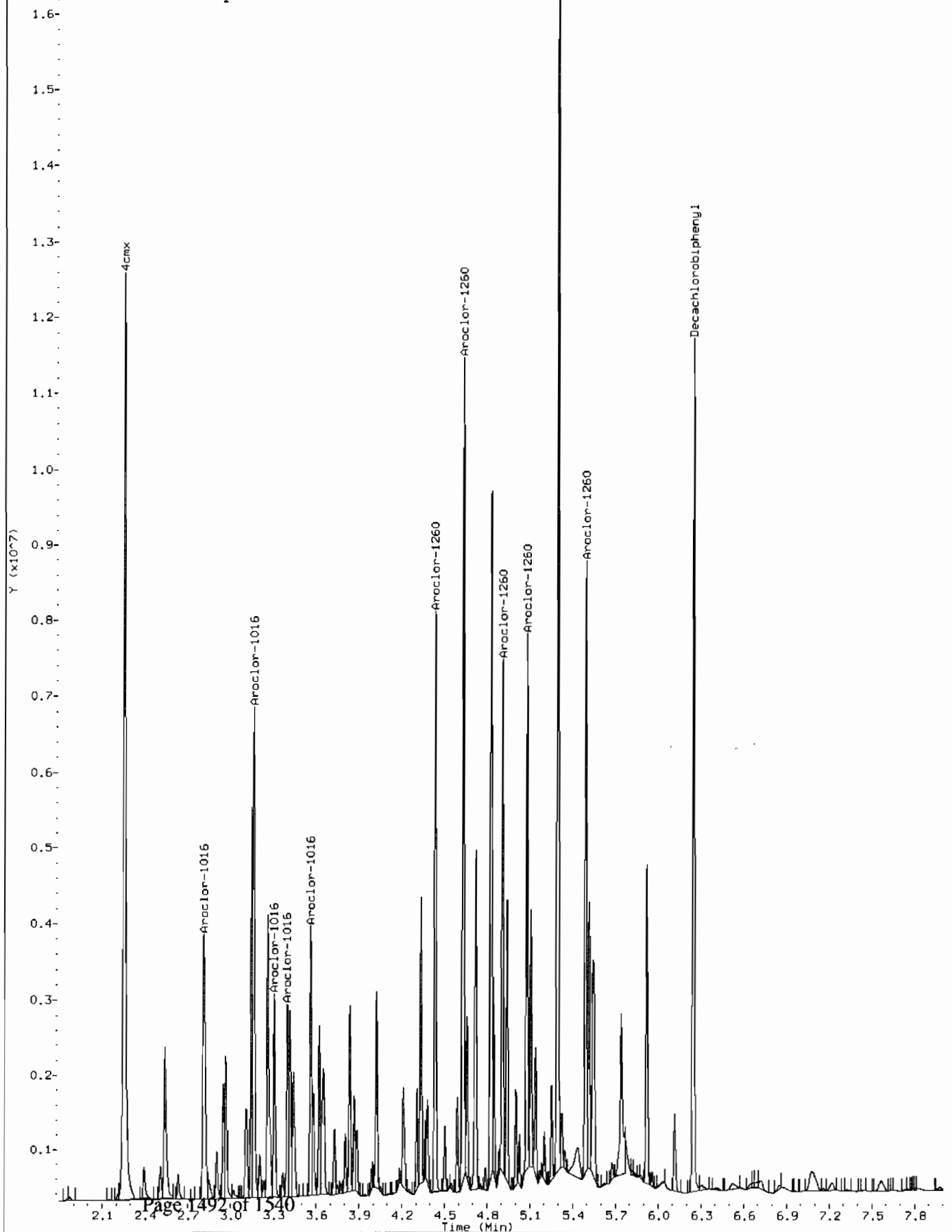
Page 1



Comment: Manually Integrated
Data File: /chem/ecd8a.i/021210.b/033f3301.d
Operator: JAOC
Injection Date: 12-FEB-2010 13:25
Instrument: ecd8a.i
Client Sample ID: AR166003



Comment: Before manual integration
Data File: /chem/ecd8a.i/021210.b/orig-033f3301.d
Operator: JAOC
Injection Date: 12-FEB-2010 13:25
Instrument: ecd8a.i
Client Sample ID: AR166003



Data File: /chem/ecd8a.i/021210.b/033b3301.d
Report Date: 12-Feb-2010 13:38

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/033b3301.d
Lab Smp Id: WAR100203-60 03 Client Smp ID: AR166003
Inj Date : 12-FEB-2010 13:25
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100203-60 03
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m
Meth Date : 12-Feb-2010 13:38 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d
Als bottle: 33 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
<hr/>						
\$ 11 4cmx			CAS #: 877-09-8			
2.486	2.486	0.000	8757241 100.000	101	80.00- 120.00	100.00
<hr/>						
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
6.836	6.836	0.000	7592550 100.000	117	80.00- 120.00	100.00(M)
<hr/>						
1 Aroclor-1016			CAS #: 12674-11-2			
3.559	3.558	0.001	3869768 1000.00	1030	80.00- 120.00	100.00(M)
3.659	3.658	0.001	2493274 1000.00	1000	44.43- 84.43	64.43
3.735	3.734	0.001	1605277 1000.00	1060	21.48- 61.48	41.48
3.810	3.809	0.001	1415340 1000.00	948	16.57- 56.57	36.57
4.006	4.006	0.000	1922083 1000.00	944	29.67- 69.67	49.67
Average of Peak Amounts =			996			
<hr/>						
7 Aroclor-1260			CAS #: 11096-82-5			
4.920	4.919	0.001	4276875 1000.00	1050	80.00- 120.00	100.00(M)
5.068	5.068	0.000	5145887 1000.00	1040	100.32- 140.32	120.32
5.385	5.384	0.001	4664119 1000.00	1230	89.05- 129.05	109.05
5.591	5.591	0.000	4133683 1000.00	1040	76.65- 116.65	96.65
6.023	6.023	0.000	7602227 1000.00	1220	157.75- 197.75	177.75
Average of Peak Amounts =			1.12e+03			

Data File: /chem/ecd8a.i/021210.b/033b3301.d
Report Date: 12-Feb-2010 13:38

Page 2

QC Flag Legend

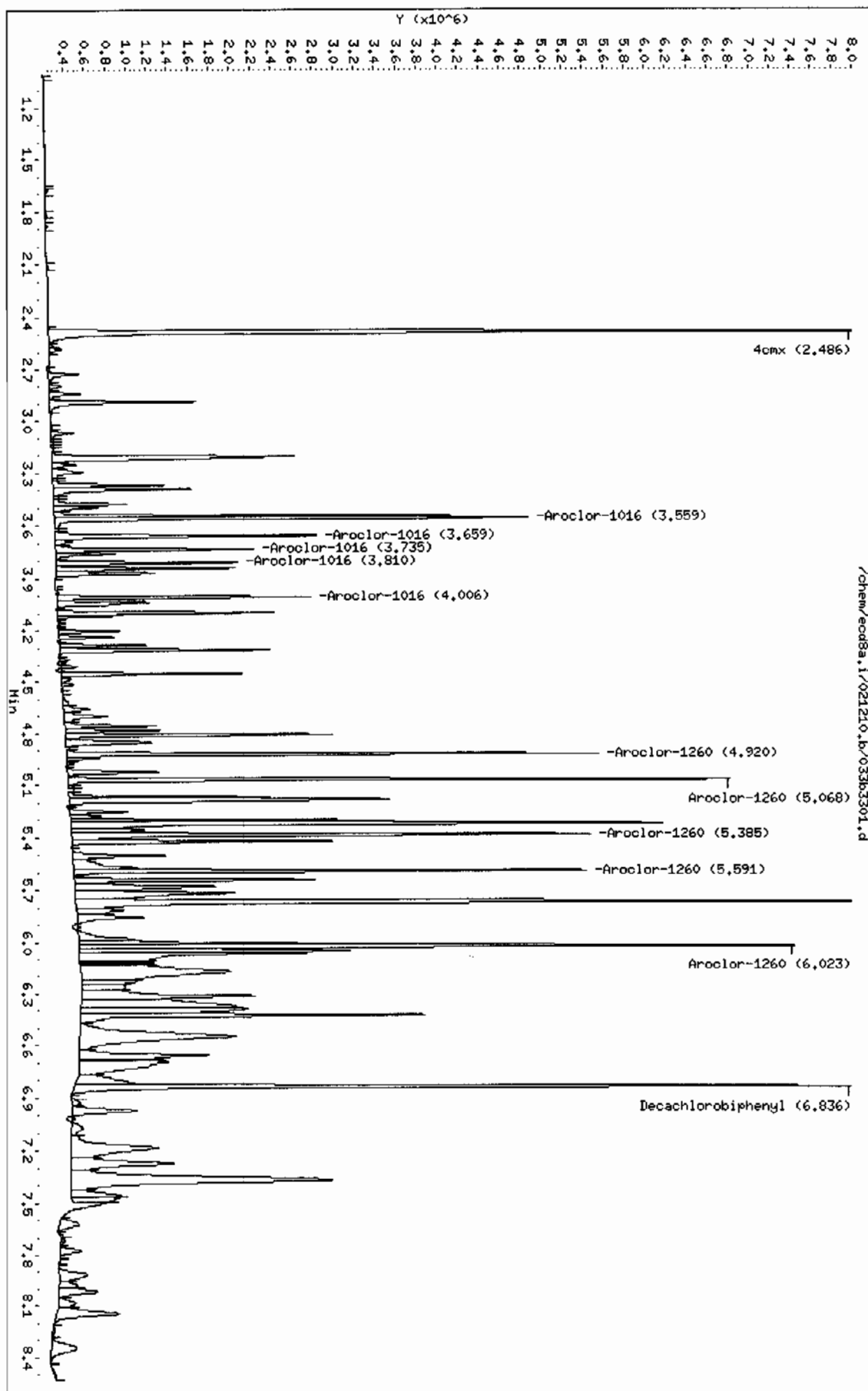
M - Compound response manually integrated.

Data File: /chem/ecodba.i/021210.b/033b3301.d
Date: 12-FEB-2010 13:25
Client ID: AR166003
Sample Info: IMR100203-60 03

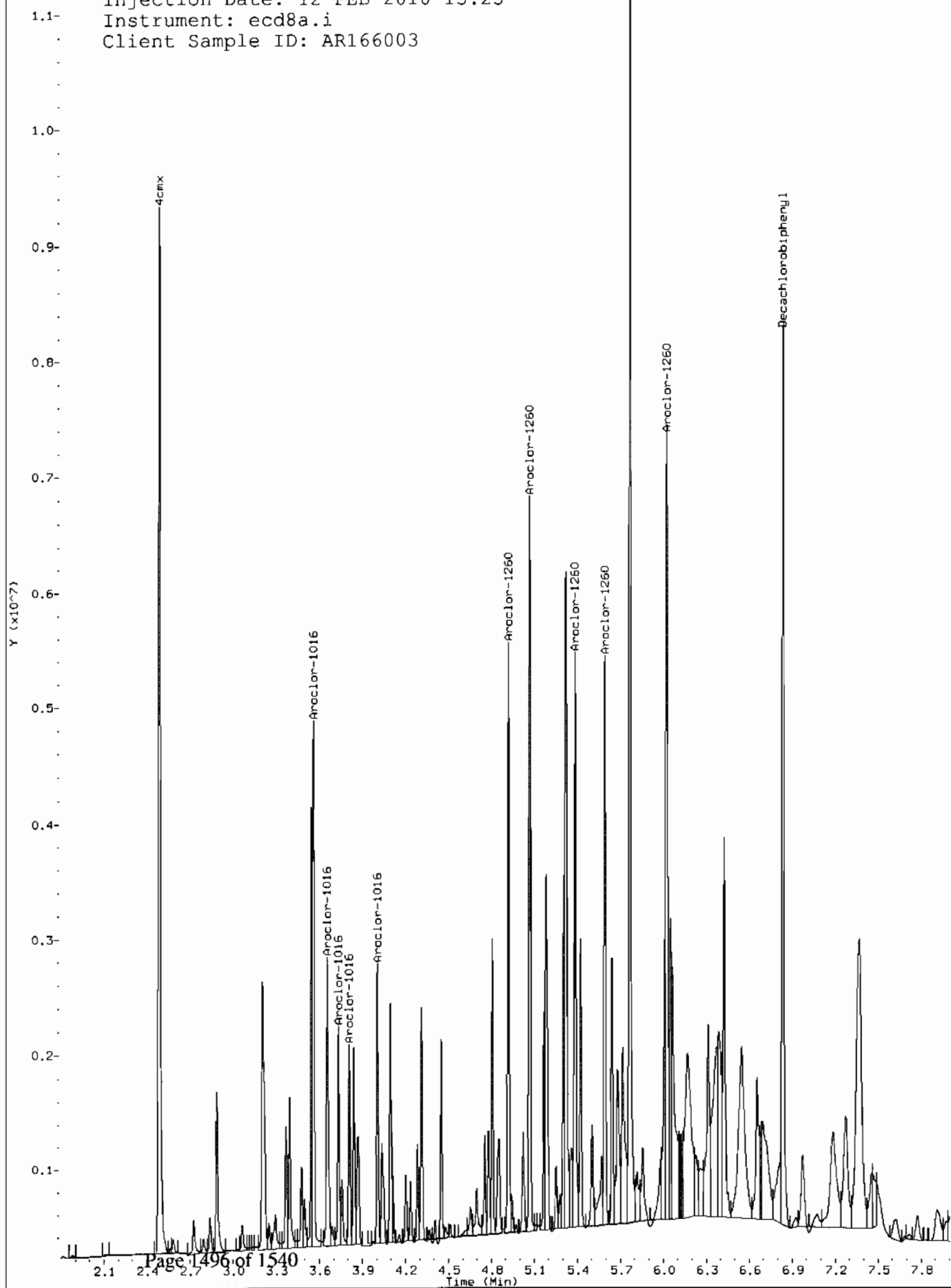
Column phase: CLP2

Instrument: ecodba.i

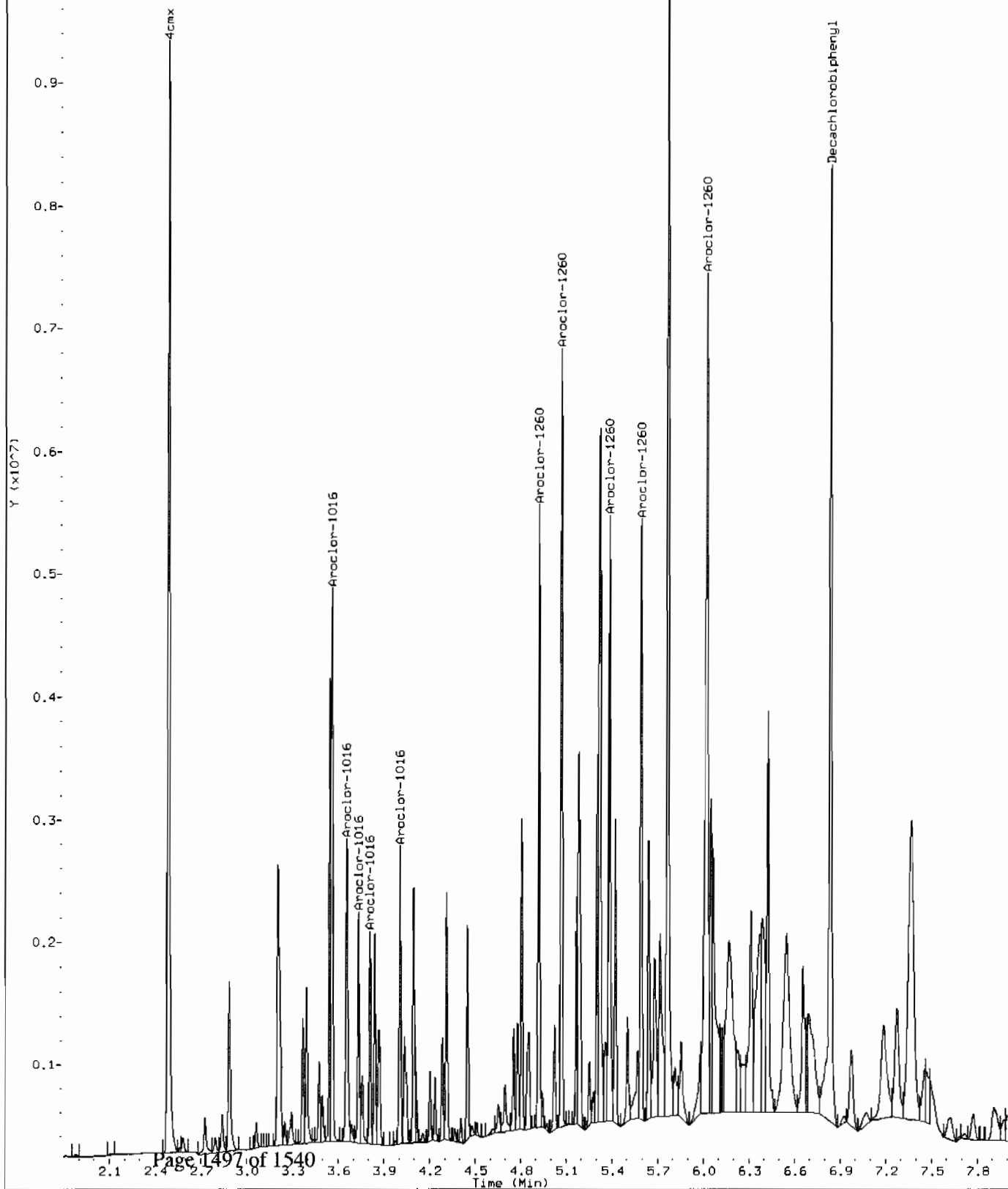
Operator: JAOC
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecd8a.i/021210.b/033b3301.d
Operator: JAOC
Injection Date: 12-FEB-2010 13:25
Instrument: ecd8a.i
Client Sample ID: AR166003



Comment: Before manual integration
Data File: /chem/ecd8a.i/021210.b/orig-033b3301.d
Operator: JAOC
Injection Date: 12-FEB-2010 13:25
Instrument: ecd8a.i
Client Sample ID: AR166003



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.: 10-1567

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.26			DCB: 6.25		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	SI RT #	DCB RT #
01	PIBLK01	WAR091130-99	02/03/10	1012	2.25 6.24
02	AR166001	WAR100203-01	02/03/10	1024	2.26 6.25
03	AR166002	WAR100203-02	02/03/10	1037	2.26 6.25
04	AR166003	WAR100203-03	02/03/10	1049	2.26 6.25
05	AR166004	WAR100203-04	02/03/10	1101	2.26 6.25
06	AR166005	IAR100104-01	02/03/10	1114	2.26 6.25
07	AR166001	WAR100203-60	02/03/10	1126	2.26 6.25
08	AR125401	WAR100203-05	02/03/10	1139	
09	AR125402	WAR100203-06	02/03/10	1151	
10	AR125403	WAR100203-07	02/03/10	1203	
11	AR125404	WAR100203-08	02/03/10	1216	
12	AR125405	IAR091027-01	02/03/10	1228	
13	AR125401	WAR091216-54	02/03/10	1240	
14	AR124201	WAR100203-09	02/03/10	1253	
15	AR124202	WAR100203-10	02/03/10	1305	
16	AR124203	WAR100203-11	02/03/10	1318	
17	AR124204	WAR100203-12	02/03/10	1330	
18	AR124205	IAR091111-01	02/03/10	1342	
19	AR124201	WAR091217-42	02/03/10	1355	
20	AR124801	WAR100203-13	02/03/10	1407	
21	AR124802	WAR100203-14	02/03/10	1419	
22	AR124803	WAR100203-15	02/03/10	1432	
23	AR124804	WAR100203-16	02/03/10	1444	
24	AR124805	IAR091027-02	02/03/10	1457	
25	AR124801	WAR091217-48	02/03/10	1509	
26	AR123201	WAR100104-32	02/03/10	1521	
27	AR122101	WAR100104-21	02/03/10	1534	
28	AR126201	WAR100203-17	02/03/10	1546	
29	AR126202	WAR100203-18	02/03/10	1558	
30	AR126203	WAR100203-19	02/03/10	1611	
31	AR126204	WAR100203-20	02/03/10	1623	
32	AR126205	IAR100104-04	02/03/10	1636	

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.: 10-1567

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.26		DCB: 6.25			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	AR126201	WAR100104-62	02/03/10 1648		
02	AR126801	WAR091107-68	02/03/10 1700		
03	AR124801	WAR091217-48	02/03/10 1713		
04	DDTANALOGSTD	WAR091219-DD	02/03/10 1725		
05	PIBLK02	WAR091130-99	02/03/10 1738	2.26	6.25
06	ZZZZZ	ZZZZZ	02/03/10 1750	2.26	6.25
07	ZZZZZ	ZZZZZ	02/03/10 1802	2.26	6.25
08	ZZZZZ	ZZZZZ	02/03/10 1815	2.26	6.25
09	ZZZZZ	ZZZZZ	02/03/10 1827	2.26	6.25
10	ZZZZZ	ZZZZZ	02/03/10 1839	2.26	6.25
11	ZZZZZ	ZZZZZ	02/03/10 1852	2.26	6.25
12	ZZZZZ	ZZZZZ	02/03/10 1904	2.26	6.25
13	ZZZZZ	ZZZZZ	02/03/10 1916	2.26	6.25
14	ZZZZZ	ZZZZZ	02/03/10 1929	2.26	6.25
15	ZZZZZ	ZZZZZ	02/03/10 1941	2.26	6.25
16	AR166002	WAR100203-60	02/03/10 1954	2.26	6.25
17	PIBLK03	WAR091130-99	02/03/10 2006	2.26	6.25
18	ZZZZZ	ZZZZZ	02/03/10 2018	2.26	6.25
19	ZZZZZ	ZZZZZ	02/03/10 2031	2.26	6.25
20	ZZZZZ	ZZZZZ	02/03/10 2043	2.26	6.25
21	ZZZZZ	ZZZZZ	02/03/10 2055	2.26	6.25
22	AR166003	WAR100203-60	02/03/10 2108	2.26	6.25
23	PIBLK04	WAR091130-99	02/03/10 2120	2.26	6.25
24	ZZZZZ	ZZZZZ	02/03/10 2133	2.26	6.25
25	ZZZZZ	ZZZZZ	02/03/10 2145	2.26	6.25
26	ZZZZZ	ZZZZZ	02/03/10 2157	2.26	6.25
27	AR166004	WAR100203-60	02/03/10 2210	2.26	6.25
28	PIBLK05	WAR091130-99	02/03/10 2222	2.26	6.25
29	ZZZZZ	ZZZZZ	02/03/10 2234	2.26	6.25
30	ZZZZZ	ZZZZZ	02/03/10 2247	2.26	6.25
31	ZZZZZ	ZZZZZ	02/03/10 2259		
32	ZZZZZ	ZZZZZ	02/03/10 2312		

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.: 10-1567

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 2.49				DCB: 6.84			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT	#
01	PIBLK01	WAR091130-99	02/03/10	1012	2.49	6.84	
02	AR166001	WAR100203-01	02/03/10	1024	2.49	6.84	
03	AR166002	WAR100203-02	02/03/10	1037	2.49	6.84	
04	AR166003	WAR100203-03	02/03/10	1049	2.49	6.84	
05	AR166004	WAR100203-04	02/03/10	1101	2.49	6.84	
06	AR166005	IAR100104-01	02/03/10	1114	2.49	6.84	
07	AR166001	WAR100203-60	02/03/10	1126	2.49	6.84	
08	AR125401	WAR100203-05	02/03/10	1139			
09	AR125402	WAR100203-06	02/03/10	1151			
10	AR125403	WAR100203-07	02/03/10	1203			
11	AR125404	WAR100203-08	02/03/10	1216			
12	AR125405	IAR091027-01	02/03/10	1228			
13	AR125401	WAR091216-54	02/03/10	1240			
14	AR124201	WAR100203-09	02/03/10	1253			
15	AR124202	WAR100203-10	02/03/10	1305			
16	AR124203	WAR100203-11	02/03/10	1318			
17	AR124204	WAR100203-12	02/03/10	1330			
18	AR124205	IAR091111-01	02/03/10	1342			
19	AR124201	WAR091217-42	02/03/10	1355			
20	AR124801	WAR100203-13	02/03/10	1407			
21	AR124802	WAR100203-14	02/03/10	1419			
22	AR124803	WAR100203-15	02/03/10	1432			
23	AR124804	WAR100203-16	02/03/10	1444			
24	AR124805	IAR091027-02	02/03/10	1457			
25	AR124801	WAR091217-48	02/03/10	1509			
26	AR123201	WAR100104-32	02/03/10	1521			
27	AR122101	WAR100104-21	02/03/10	1534			
28	AR126201	WAR100203-17	02/03/10	1546			
29	AR126202	WAR100203-18	02/03/10	1558			
30	AR126203	WAR100203-19	02/03/10	1611			
31	AR126204	WAR100203-20	02/03/10	1623			
32	AR126205	IAR100104-04	02/03/10	1636			

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.: 10-1567

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 2.49				DCB: 6.84			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT	#
01	AR126201	WAR100104-62	02/03/10	1648			
02	AR126801	WAR091107-68	02/03/10	1700			
03	AR124801	WAR091217-48	02/03/10	1713			
04	DDTANALOGSTD	WAR091219-DD	02/03/10	1725			
05	PIBLK02	WAR091130-99	02/03/10	1738	2.49	6.84	
06	ZZZZZ	ZZZZZ	02/03/10	1750	2.49	6.84	
07	ZZZZZ	ZZZZZ	02/03/10	1802	2.49	6.84	
08	ZZZZZ	ZZZZZ	02/03/10	1815	2.49	6.84	
09	ZZZZZ	ZZZZZ	02/03/10	1827	2.49	6.84	
10	ZZZZZ	ZZZZZ	02/03/10	1839	2.49	6.84	
11	ZZZZZ	ZZZZZ	02/03/10	1852	2.49	6.84	
12	ZZZZZ	ZZZZZ	02/03/10	1904	2.49	6.84	
13	ZZZZZ	ZZZZZ	02/03/10	1916	2.49	6.84	
14	ZZZZZ	ZZZZZ	02/03/10	1929	2.49	6.84	
15	ZZZZZ	ZZZZZ	02/03/10	1941	2.49	6.84	
16	AR166002	WAR100203-60	02/03/10	1954	2.49	6.84	
17	PIBLK03	WAR091130-99	02/03/10	2006	2.49	6.84	
18	ZZZZZ	ZZZZZ	02/03/10	2018	2.49	6.84	
19	ZZZZZ	ZZZZZ	02/03/10	2031	2.49	6.84	
20	ZZZZZ	ZZZZZ	02/03/10	2043	2.49	6.84	
21	ZZZZZ	ZZZZZ	02/03/10	2055	2.49	6.84	
22	AR166003	WAR100203-60	02/03/10	2108	2.49	6.84	
23	PIBLK04	WAR091130-99	02/03/10	2120	2.49	6.84	
24	ZZZZZ	ZZZZZ	02/03/10	2133	2.49	6.84	
25	ZZZZZ	ZZZZZ	02/03/10	2145	2.49	6.84	
26	ZZZZZ	ZZZZZ	02/03/10	2157	2.49	6.84	
27	AR166004	WAR100203-60	02/03/10	2210	2.49	6.84	
28	PIBLK05	WAR091130-99	02/03/10	2222	2.49	6.84	
29	ZZZZZ	ZZZZZ	02/03/10	2234	2.49	6.84	
30	ZZZZZ	ZZZZZ	02/03/10	2247	2.49	6.84	
31	ZZZZZ	ZZZZZ	02/03/10	2259			
32	ZZZZZ	ZZZZZ	02/03/10	2312			

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.: 10-1567

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.25			DCB: 6.25		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100105-99	02/12/10 0649	2.25	6.24
02	AR166001	WAR100203-60	02/12/10 0702	2.25	6.24
03	AR125401	WAR100201-54	02/12/10 0714		
04	AR124201	WAR091217-42	02/12/10 0726		
05	AR124801	WAR091217-48	02/12/10 0738		
06	AR123201	WAR100104-32	02/12/10 0751		
07	AR122101	WAR100104-21	02/12/10 0803		
08	AR126201	WAR100104-62	02/12/10 0816		
09	AR126801	WAR100107-68	02/12/10 0828		
10	DDTANALOGSTD	WAR091219-DD	02/12/10 0840		
11	PIBLK02	WAR100105-99	02/12/10 0853	2.25	6.25
12	PBLK01	1202040223	02/12/10 0905	2.25	6.25
13	PBLK01LCS	1202040224	02/12/10 0918	2.25	6.25
14	ZZZZZ	ZZZZZ	02/12/10 0930	2.26	6.25
15	ZZZZZ	ZZZZZ	02/12/10 0942	2.26	6.25
16	ZZZZZ	ZZZZZ	02/12/10 0955	2.25	6.25
17	ZZZZZ	ZZZZZ	02/12/10 1007	2.25	6.24
18	ZZZZZ	ZZZZZ	02/12/10 1019	2.25	6.25
19	ZZZZZ	ZZZZZ	02/12/10 1032	2.25	6.25
20	ZZZZZ	ZZZZZ	02/12/10 1044	2.25	6.25
21	AR166002	WAR100203-60	02/12/10 1056	2.25	6.25
22	PIBLK03	WAR100105-99	02/12/10 1109	2.26	6.25
23	ZZZZZ	ZZZZZ	02/12/10 1121	2.25	6.25
24	ZZZZZ	ZZZZZ	02/12/10 1134	2.26	6.25
25	ZZZZZ	ZZZZZ	02/12/10 1146	2.25	6.25
26	RE15-10-8301	246330008	02/12/10 1158	2.25	6.24
27	RE15-10-8300	246330009	02/12/10 1211	2.25	6.25
28	ZZZZZ	ZZZZZ	02/12/10 1223	2.25	6.25
29	ZZZZZ	ZZZZZ	02/12/10 1235	2.25	6.25
30	ZZZZZ	ZZZZZ	02/12/10 1248	2.25	6.25
31	ZZZZZ	ZZZZZ	02/12/10 1300	2.25	6.25
32	ZZZZZ	ZZZZZ	02/12/10 1313	2.25	6.25

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.: 10-1567

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.25			DCB: 6.25		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	AR166003	WAR100203-60	02/12/10	1325	2.25 6.25
02	PIBLK04	WAR100105-99	02/12/10	1337	2.25 6.25
03	ZZZZZ	ZZZZZ	02/12/10	1350	2.25 6.24
04	ZZZZZ	ZZZZZ	02/12/10	1402	2.25 6.24
05	ZZZZZ	ZZZZZ	02/12/10	1414	2.25 6.25
06	ZZZZZ	ZZZZZ	02/12/10	1427	2.25 6.25
07	ZZZZZ	ZZZZZ	02/12/10	1439	2.25 6.25
08	ZZZZZ	ZZZZZ	02/12/10	1451	2.25 6.25
09	AR166004	WAR100203-60	02/12/10	1504	2.25 6.25
10	PIBLK05	WAR100105-99	02/12/10	1516	2.25 6.25
11					
12					
13					
14					
15					
16					
17					
18					
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21					
22					
23					
24					
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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.: 10-1567

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.49			DCB: 6.84		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01 PIBLK01	WAR100105-99	02/12/10	0649	2.48	6.83
02 AR166001	WAR100203-60	02/12/10	0702	2.49	6.84
03 AR125401	WAR100201-54	02/12/10	0714		
04 AR124201	WAR091217-42	02/12/10	0726		
05 AR124801	WAR091217-48	02/12/10	0738		
06 AR123201	WAR100104-32	02/12/10	0751		
07 AR122101	WAR100104-21	02/12/10	0803		
08 AR126201	WAR100104-62	02/12/10	0816		
09 AR126801	WAR100107-68	02/12/10	0828		
10 DDTANALOGSTD	WAR091219-DD	02/12/10	0840		
11 PIBLK02	WAR100105-99	02/12/10	0853	2.49	6.84
12 PBLK01	1202040223	02/12/10	0905	2.49	6.84
13 PBLK01LCS	1202040224	02/12/10	0918	2.49	6.84
14 ZZZZZ	ZZZZZ	02/12/10	0930	2.49	6.84
15 ZZZZZ	ZZZZZ	02/12/10	0942	2.49	6.84
16 ZZZZZ	ZZZZZ	02/12/10	0955	2.49	6.84
17 ZZZZZ	ZZZZZ	02/12/10	1007	2.49	6.84
18 ZZZZZ	ZZZZZ	02/12/10	1019	2.49	6.84
19 ZZZZZ	ZZZZZ	02/12/10	1032	2.49	6.84
20 ZZZZZ	ZZZZZ	02/12/10	1044	2.49	6.84
21 AR166002	WAR100203-60	02/12/10	1056	2.49	6.84
22 PIBLK03	WAR100105-99	02/12/10	1109	2.49	6.84
23 ZZZZZ	ZZZZZ	02/12/10	1121	2.49	6.84
24 ZZZZZ	ZZZZZ	02/12/10	1134	2.49	6.84
25 ZZZZZ	ZZZZZ	02/12/10	1146	2.49	6.84
26 RE15-10-8301	246330008	02/12/10	1158	2.49	6.84
27 RE15-10-8300	246330009	02/12/10	1211	2.49	6.84
28 ZZZZZ	ZZZZZ	02/12/10	1223	2.49	6.84
29 ZZZZZ	ZZZZZ	02/12/10	1235	2.49	6.84
30 ZZZZZ	ZZZZZ	02/12/10	1248	2.49	6.84
31 ZZZZZ	ZZZZZ	02/12/10	1300	2.49	6.84
32 ZZZZZ	ZZZZZ	02/12/10	1313	2.49	6.84

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.: 10-1567

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.49		DCB: 6.84			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	AR166003	WAR100203-60	02/12/10	1325	2.49 6.84
02	PIBLK04	WAR100105-99	02/12/10	1337	2.49 6.84
03	ZZZZZ	ZZZZZ	02/12/10	1350	2.49 6.84
04	ZZZZZ	ZZZZZ	02/12/10	1402	2.49 6.84
05	ZZZZZ	ZZZZZ	02/12/10	1414	2.49 6.84
06	ZZZZZ	ZZZZZ	02/12/10	1427	2.49 6.84
07	ZZZZZ	ZZZZZ	02/12/10	1439	2.49 6.84
08	ZZZZZ	ZZZZZ	02/12/10	1451	2.49 6.84
09	AR166004	WAR100203-60	02/12/10	1504	2.49 6.84
10	PIBLK05	WAR100105-99	02/12/10	1516	2.49 6.84
11					
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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: 10-1567

Client ID: LCS for batch 951941

Lab Sample ID: 1202040224

Data File: 013f1301.d

Data File: 013b1301.d

Inst: ECD8A.J_1

Inst: ECD8A.J_2

Column: CLP1

Column: CLP2

Analyzed: 12-FEB-10 09:18

Analyzed: 12-FEB-10 09:18

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							.119
Column 1	1	2.81	2.78 – 2.84	19.3		ug/kg	
	2	3.16	3.13 – 3.19	18.6		ug/kg	
	3	3.31	3.28 – 3.34	17.8		ug/kg	
	4	3.4	3.37 – 3.43	18.8		ug/kg	
	5	3.56	3.53 – 3.59	18.4		ug/kg	
					18.6		
Column 2	1	3.56	3.53 – 3.59	18.3		ug/kg	
	2	3.66	3.63 – 3.69	19.4		ug/kg	
	3	3.73	3.7 – 3.76	17.8		ug/kg	
	4	3.81	3.78 – 3.84	18.6		ug/kg	
	5	4.01	3.98 – 4.04	18.7		ug/kg	
					18.6		
Aroclor-1260							8.76
Column 1	1	4.44	4.4 – 4.46	19.6		ug/kg	
	2	4.63	4.6 – 4.66	20		ug/kg	
	3	4.91	4.88 – 4.94	20.8		ug/kg	
	4	5.08	5.05 – 5.11	21.1		ug/kg	
	5	5.49	5.46 – 5.52	22.7		ug/kg	
					20.8		
Column 2	1	4.92	4.89 – 4.95	21.9		ug/kg	
	2	5.07	5.04 – 5.1	22.5		ug/kg	
	3	5.38	5.35 – 5.41	23		ug/kg	
	4	5.59	5.56 – 5.62	22.6		ug/kg	
	5	6.02	5.99 – 6.05	23.7		ug/kg	
					22.8		

QUALITY CONTROL DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1567

Matrix: SOIL

Lab Sample ID: 1202040223

Client Sample: QC for batch 951941

Client: LANL010

Project: QC

Client ID: MB for batch 951941

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 951946

Inst: ECD8A.I

Dilution: 1

Run Date: 02/12/2010 09:05

Analyst: JAOB

Inj. Vol: 1 uL

Prep Date: 02/11/2010 22:01

Aliquot: 30 g

Final Volume: 1 mL

Data File: 012f1201-1.d

Column: 1 CLP1

Level: LOW

012b1201-1.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/ecd8a.i/021210.b/012f1201-3.d
Report Date: 18-Feb-2010 10:47

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/012f1201-3.d
Lab Smp Id: 1202040223 Client Smp ID: PBLK01
Inj Date : 12-FEB-2010 09:05
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |1202040223|1|
Misc Info : |ECD82P_1S|951946|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m
Meth Date : 15-Feb-2010 06:50 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.d
Als bottle: 12 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1567.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

RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
2.254	2.252	0.002	16792727	127.793	4.2	80.00~ 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.246	6.245	0.001	13359652	133.621	4.4	80.00~ 120.00	100.00

Data File: /chem/ecod8a.i/021210.b/012f1201-3.d

Date: 12-FEB-2010 09:05

Client ID: PBLK01

Sample Info: 11202040223111

Volume Injected (uL): 1.0

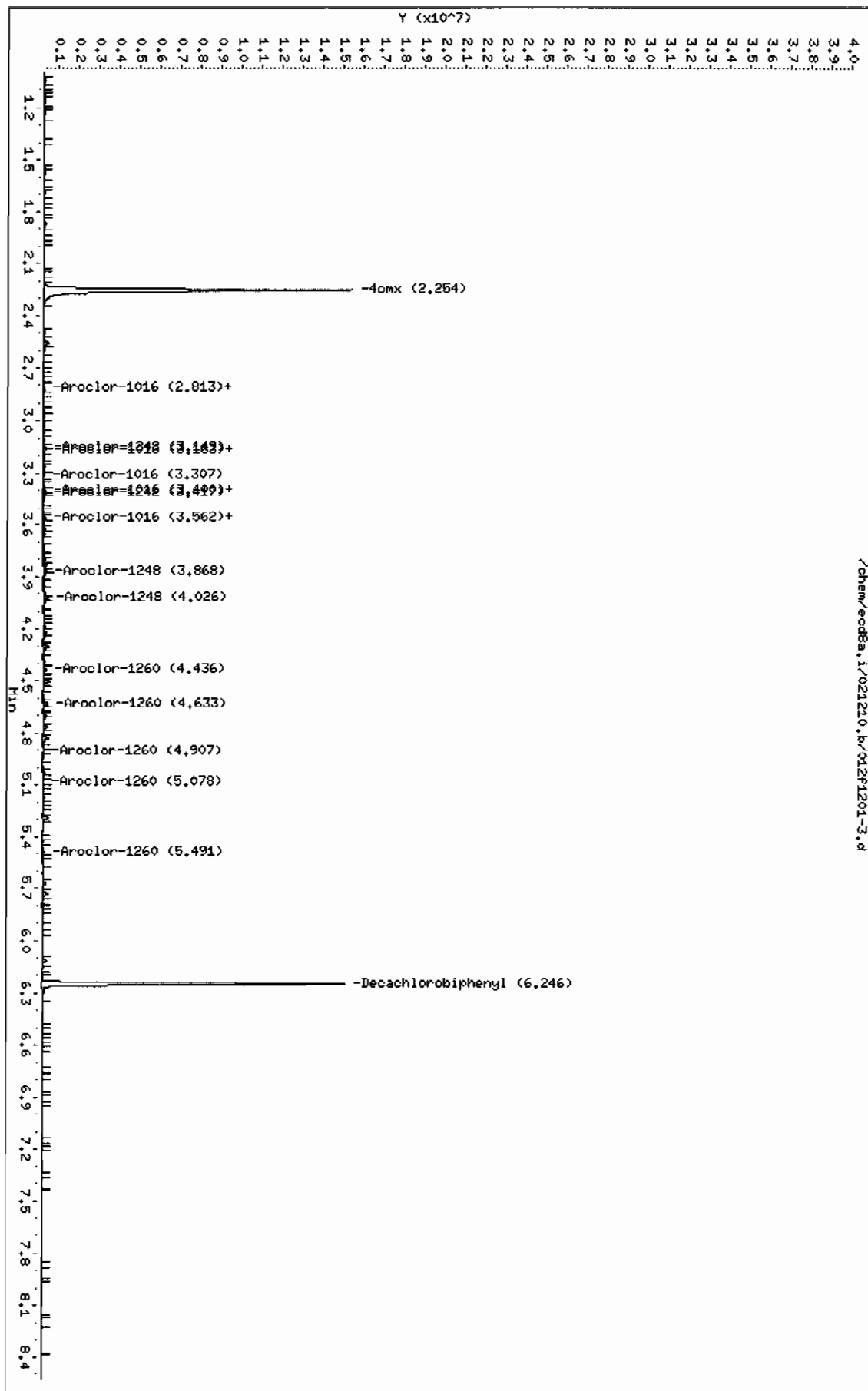
Column phase: CLP1

Instrument: ecod8a.i

Operator: JROC

Column diameter: 0.25

Page 1



Data File: /chem/ecd8a.i/021210.b/012b1201-3.d
 Report Date: 18-Feb-2010 10:46

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/012b1201-3.d
 Lab Smp Id: 1202040223 Client Smp ID: PBLK01
 Inj Date : 12-FEB-2010 09:05
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |1202040223|1|
 Misc Info : |ECD82P_1S|951946|SVA|QC A|SOIL|MB|||
 Comment :
 Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m
 Meth Date : 15-Feb-2010 06:49 jen01212 Quant Type: ESTD
 Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d
 Als bottle: 12 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1567.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		
2.487	2.486	0.001	11165707	128.573	4.3 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.837	6.836	0.001	9020376	139.109	4.6 80.00- 120.00	100.00	

Data File: /chem/ecod8a.i/021210.b/012b1201-3.d

Date : 12-FEB-2010 09:05

Client ID: PBLK01

Sample Info: 11202040223141

Volume Injected (uL): 1.0

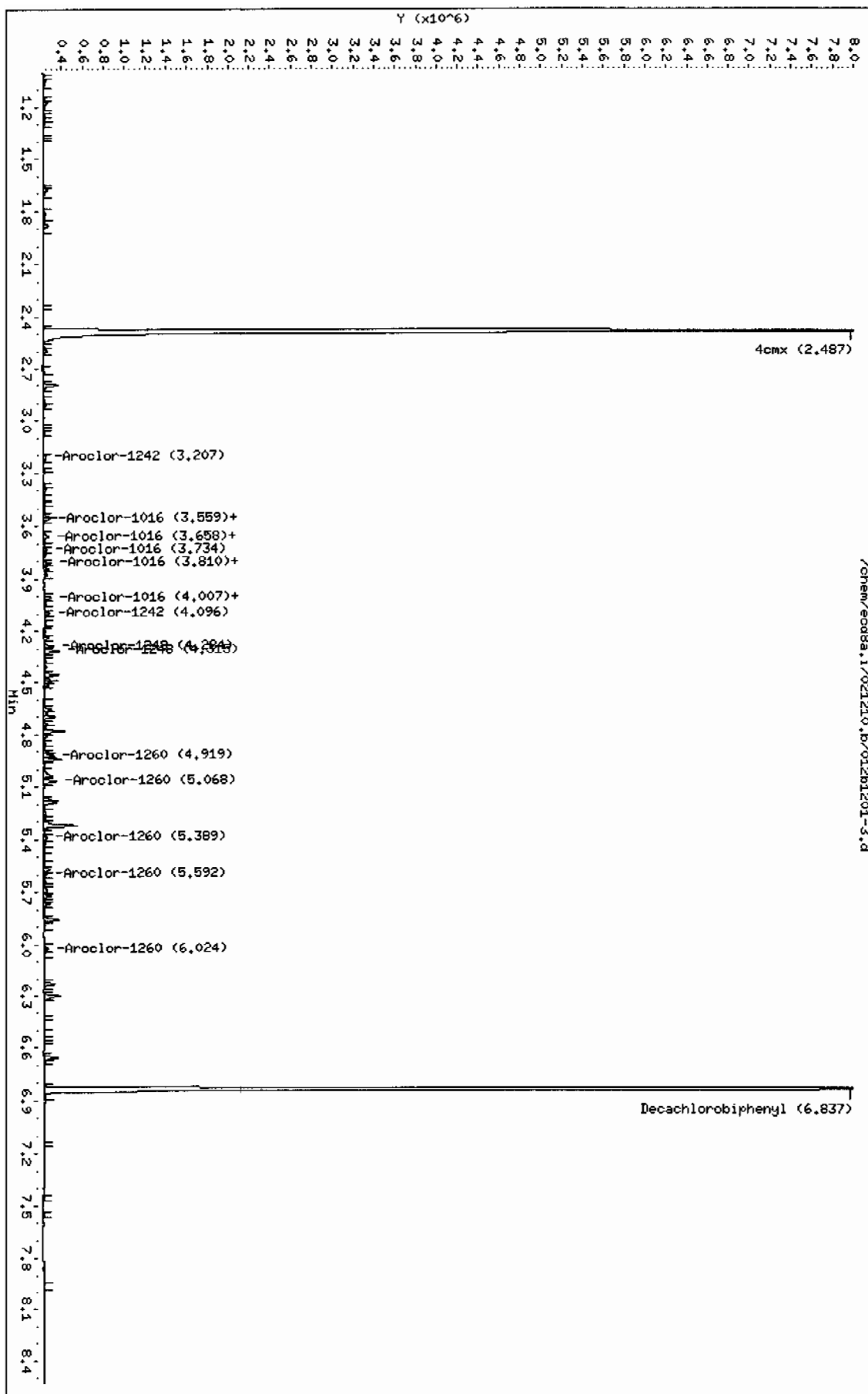
Column phase: CLP2

Instrument: ecod8a.i

Operator: JROC

Column diameter: 0.25

Page 1



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1567

Lab Sample ID: 1202040224

Client Sample: QC for batch 951941

Client ID: LCS for batch 951941

Batch ID: 951946

Run Date: 02/12/2010 09:18

Prep Date: 02/11/2010 22:01

Data File: 013f1301-1.d

013b1301-1.d

Client: LANL010

Method: SW846 8082

Inst: ECD8A.I

Analyst: JAOC

Aliquot: 30 g

Column: 1 CLP1

2 CLP2

Matrix: SOIL

Project: QC

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		18.6	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		22.7	ug/kg	1.11	3.33	2

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/013f1301-3.d
Lab Smp Id: 1202040224 Client Smp ID: PBLK01LCS
Inj Date : 12-FEB-2010 09:18
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |1202040224|1|
Misc Info : |ECD82P_1S|951946|SVA|QC A|SOIL|LCS|||
Comment :
Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m
Meth Date : 12-Feb-2010 11:13 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.d
Als bottle: 13 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1567.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			
2.254	2.252	0.002	15865945 120.740	4.0	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.245	6.245	0.000	12800089 128.025	4.3	80.00- 120.00	100.00	
1 Aroclor-1016				CAS #: 12674-11-2			
2.812	2.811	0.001	2707124 580.352	19.3	80.00- 120.00	100.00	
3.164	3.163	0.001	3212095 556.729	18.6	98.17- 138.17	118.65	
3.307	3.306	0.001	1314074 535.439	17.8	30.98- 70.98	48.54	
3.399	3.399	0.000	1238665 563.496	18.8	25.80- 65.80	45.76	

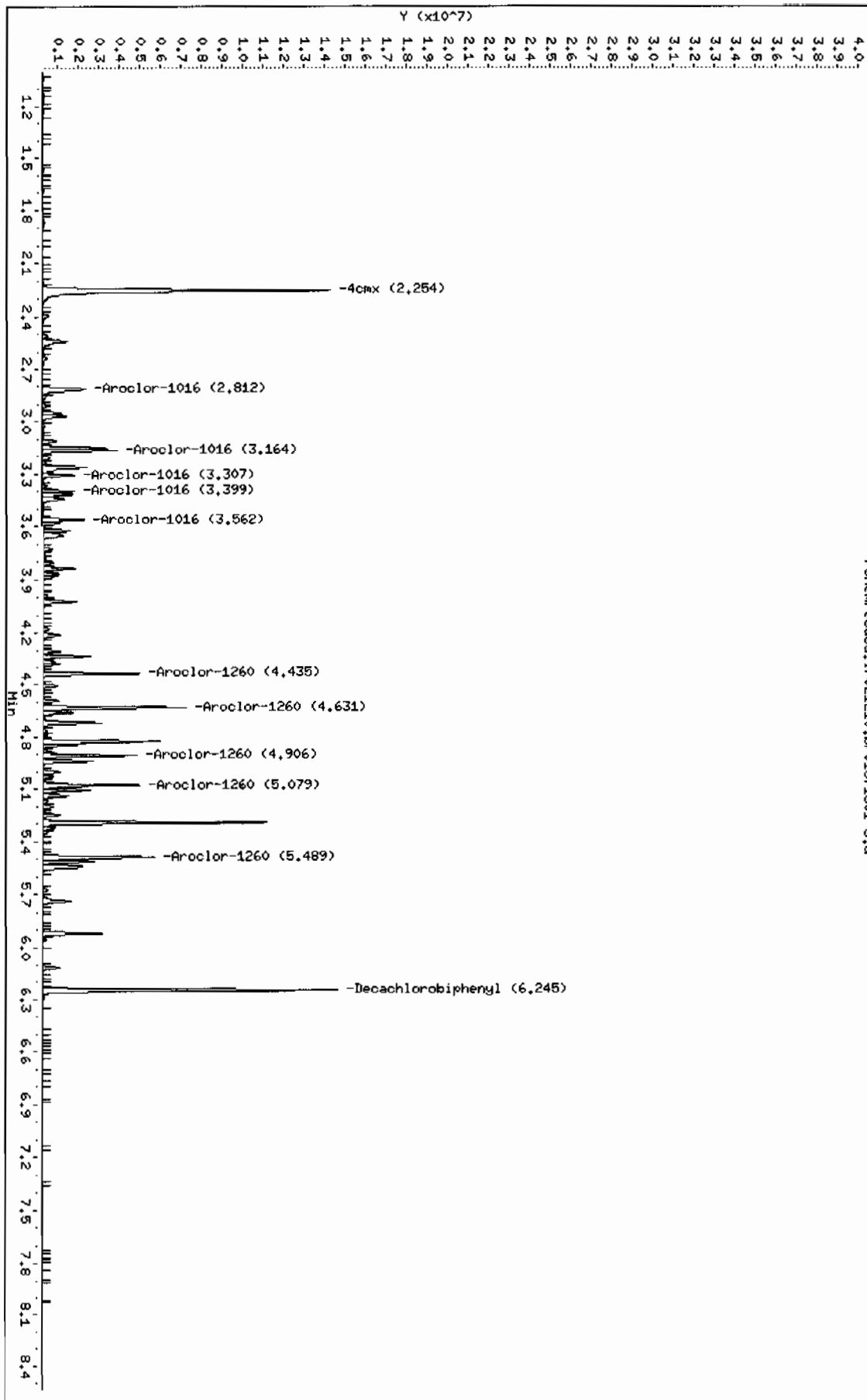
CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE		RATIO	
UL	=====	=====	=====	=====	=====	=====		=====	
1 Aroclor-1016 (continued)									
3.562	3.561	0.001	1733760	551.774	18.4	45.68-	85.68	64.04	
Average of Peak Concentrations =					18.6				

7 Aroclor-1260					CAS #: 11096-82-5				
4.435	4.435	0.000	3969225	588.996	19.6	80.00-	120.00	100.00	
4.631	4.631	0.000	6164661	600.856	20.0	131.83-	171.83	155.31	
4.906	4.906	0.000	3821768	623.468	20.8	72.34-	112.34	96.28	
5.079	5.078	0.001	4049290	634.102	21.1	79.25-	119.25	102.02	
5.489	5.490	-0.001	4662565	679.698	22.6	91.49-	131.49	117.47	
Average of Peak Concentrations =					20.8				

Data File: /chem/ecod8a.i/021210.b/013f1301-3.d
Date: 12-FEB-2010 09:18
Client ID: PELKOLCS
Sample Info: 1120204022411
Volume Injected (ul): 1.0
Column phase: CLP1

Instrument: ecod8a.i
Operator: JADC
Column diameter: 0.25

/chem/ecod8a.i/021210.b/013f1301-3.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecd8a.i/021210.b/013b1301-3.d
 Lab Smp Id: 1202040224 Client Smp ID: PBLK01LCS
 Inj Date : 12-FEB-2010 09:18
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |1202040224|1|
 Misc Info : |ECD82P_1S|951946|SVA|QC A|SOIL|LCS|||
 Comment :
 Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m
 Meth Date : 12-Feb-2010 11:06 jen01212 Quant Type: ESTD
 Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d
 Als bottle: 13 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1567.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			
2.486	2.486	0.000	10544249	121.417	4.0	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.836	6.836	0.000	8619569	132.928	4.4	80.00-	120.00	100.00

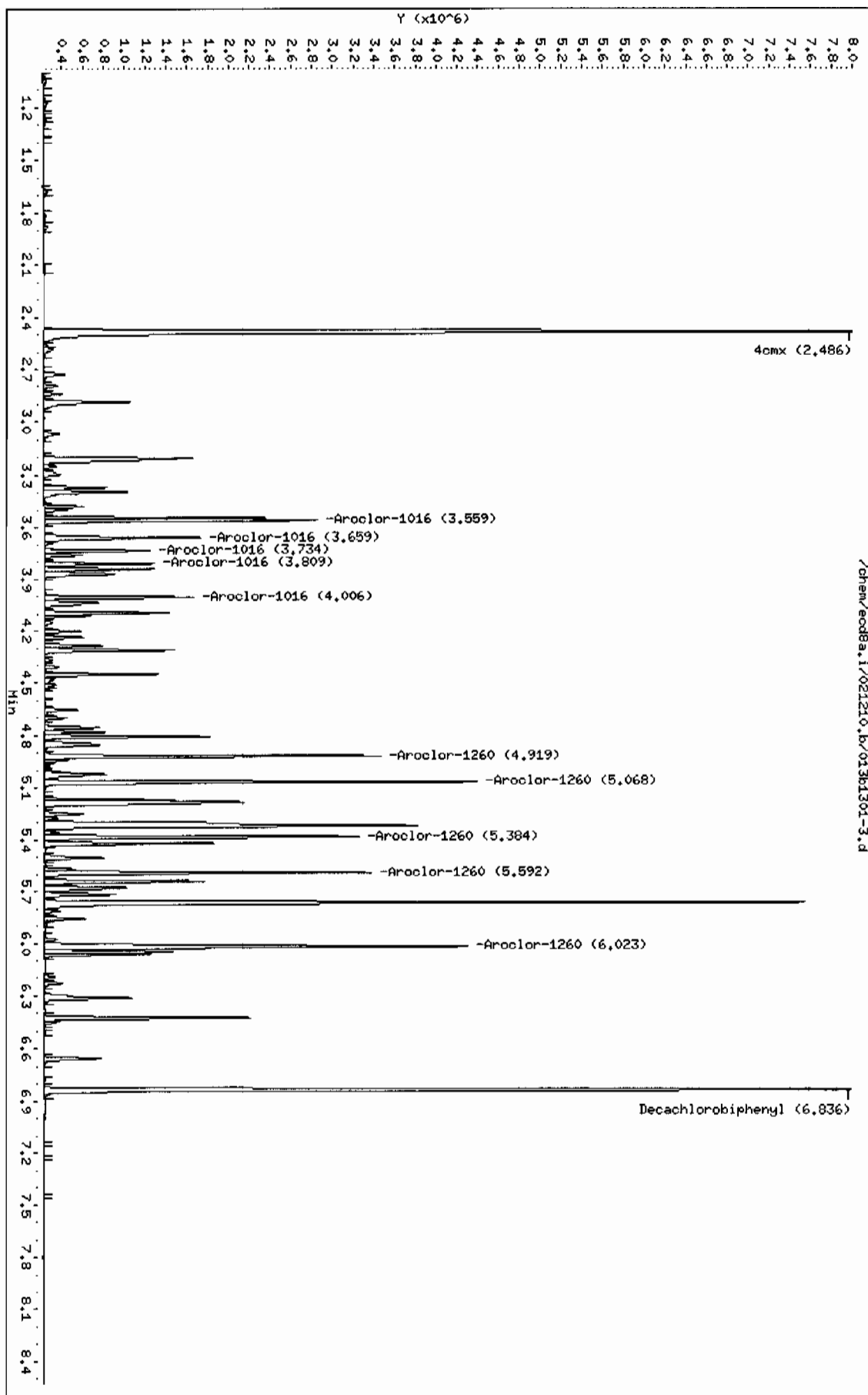
1 Aroclor-1016					CAS #: 12674-11-2			
3.559	3.558	0.001	2069472	549.456	18.3	80.00-	120.00	100.00
3.659	3.658	0.001	1448200	580.574	19.4	47.75-	87.75	69.98
3.734	3.734	0.000	810130	534.566	17.8	19.55-	59.55	39.15
3.809	3.809	0.000	835367	559.461	18.6	18.40-	58.40	40.37

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO		
---	-----	-----	-----	-----	-----	-----	-----	-----	-----
1 Aroclor-1016 (continued)									
4.006	4.006	0.000	1140786	560.413	18.7	33.91-	73.91	55.12	
Average of Peak Concentrations =					18.6				

7 Aroclor-1260					CAS #: 11096-82-5				
4.919	4.919	0.000	2684257	657.195	21.9	80.00-	120.00	100.00	
5.068	5.068	0.000	3352987	674.794	22.5	101.70-	141.70	124.91	
5.384	5.384	0.000	2616685	690.706	23.0	73.49-	113.49	97.48	
5.592	5.591	0.001	2686088	679.488	22.6	76.84-	116.84	100.07	
6.023	6.023	0.000	4430734	711.486	23.7	135.34-	175.34	165.06	
Average of Peak Concentrations =					22.7				

Data File: /chem/ecd8a.i/021210.b/013b1301-3.d
Date: 12-FEB-2010 09:18
Client ID: PBLK01LCS
Sample Info: 1120204022411
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecd8a.i
Operator: JADG
Column diameter: 0.25



MISCELLANEOUS DATA

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD8

DATE: 02/04/2010 METHOD: ECD8-F-8082-020310a.m OPERATOR: JAOC REVIEWED BY: _____
DATE: _____HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT DA699
ALUMINA LOT 1240553-A
COPPER LOT 236547-ACalibration & QC Information
Initial Calibration Dates: See Calibration History and Standards Log
Initial Calibration Std ID's: See Calibration History and Standards Log
GEL SOP GL-OA-E-040EPA Method: 8082 Polychlorinated Biphenyls PCBs by Gas Chromatography
Sequence Number: /chem/ecd8a.i/020310a.b Injection Volume: 1.0 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR091130-99 01	JAOC	03-FEB-2010 10:12		020310a	1.0:		CLEAN
002f0201.d	WAR100203-01 60	JAOC	03-FEB-2010 10:24		020310a	1.0:		1660 LEVEL 1
003f0301.d	WAR100203-02 60	JAOC	03-FEB-2010 10:37		020310a	1.0:		1660 LEVEL 2
004f0401.d	WAR100203-03 60	JAOC	03-FEB-2010 10:49		020310a	1.0:		1660 LEVEL 3
005f0501.d	WAR100203-04 60	JAOC	03-FEB-2010 11:01		020310a	1.0:		1660 LEVEL 4
006f0601.d	WAR100104-01 60	JAOC	03-FEB-2010 11:14		020310a	1.0:		1660 LEVEL 5
007f0701.d	WAR100203-60 01	JAOC	03-FEB-2010 11:26		020310a	1.0:		PASSES BOTH COLUMNS
008f0801.d	WAR100203-05 54	JAOC	03-FEB-2010 11:39		020310a	1.0:		1254 LEVEL 1
009f0901.d	WAR100203-06 54	JAOC	03-FEB-2010 11:51		020310a	1.0:		1254 LEVEL 2
010f1001.d	WAR100203-07 54	JAOC	03-FEB-2010 12:03		020310a	1.0:		1254 LEVEL 3
011f1101.d	WAR100203-08 54	JAOC	03-FEB-2010 12:16		020310a	1.0:		1254 LEVEL 4
012f1201.d	WAR091027-01 54	JAOC	03-FEB-2010 12:28		020310a	1.0:		1254 LEVEL 5
013f1301.d	WAR100201-54	JAOC	03-FEB-2010 12:40		020310a	1.0:		PASSES BOTH COLUMNS
014f1401.d	WAR100203-09 42	JAOC	03-FEB-2010 12:53		020310a	1.0:		1242 LEVEL 1
015f1501.d	WAR100203-10 42	JAOC	03-FEB-2010 13:05		020310a	1.0:		1242 LEVEL 2

Instrument Batch: /chem/ecd8a.i/020310a.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
016f1601.d	WAR100203-11 42	JAOC	03-FEB-2010 13:18		020310a	1.0:		1242 LEVEL 3
017f1701.d	WAR100203-12 42	JAOC	03-FEB-2010 13:30		020310a	1.0:		1242 LEVEL 4

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1018f1801.d	JAR09111-01 42	JAC03-FEB-2010 13:42		020310a		1.0		1242 LEVEL 5	
1019f1901.d	WAR091217-42	JAC03-FEB-2010 13:55		020310a		1.0		PASSES BOTH COLUMNS	
1020f2001.d	WAR:00203-13 48	JAC03-FEB-2010 14:07		020310a		1.0		1248 LEVEL 1	
1021f2101.d	WAR100203-14 48	JAC03-FEB-2010 14:19		020310a		1.0		1248 LEVEL 2	
1022f2201.d	WAR100203-15 48	JAC03-FEB-2010 14:32		020310a		1.0		1248 LEVEL 3	
1023f2301.d	WAR100203-16 48	JAC03-FEB-2010 14:44		020310a		1.0		1248 LEVEL 4	
1024f2401.d	JAR091027-02 48	JAC03-FEB-2010 14:57		020310a		1.0		1248 LEVEL 5	
1025f2501.d	WAR091217-48	JAC03-FEB-2010 15:09		020310a		1.0		DOSE RE-RUN	
1026f2601.d	WAR100104-32	JAC03-FEB-2010 15:21		020310a		1.0		PATTERN ONLY	
1027f2701.d	WAR100104-21	JAC03-FEB-2010 15:34		020310a		1.0		PATTERN ONLY	
1028f2801.d	WAR100203-17 62	JAC03-FEB-2010 15:46		020310a		1.0		1262 LEVEL 1	
1029f2901.d	WAR:00203-18 62	JAC03-FEB-2010 15:58		020310a		1.0		1262 LEVEL 2	
1030f3001.d	WAR:00203-19 62	JAC03-FEB-2010 16:11		020310a		1.0		1262 LEVEL 3	
1031f3101.d	WAR100203-20 62	JAC03-FEB-2010 16:23		020310a		1.0		1262 LEVEL 4	
1032f3201.d	JAR100104-04 62	JAC03-FEB-2010 16:36		020310a		1.0		1262 LEVEL 5	
1033f3301.d	WAR100104-62	JAC03-FEB-2010 16:48		020310a		1.0		PASSES BOTH COLUMNS	
1034f3401.d	WAR091107-68	JAC03-FEB-2010 17:00		020310a		1.0		PATTERN ONLY	
1035f3501.d	WAR091217-48	JAC03-FEB-2010 17:13		020310a		1.0		PASSES BOTH COLUMNS	

Instrument Batch: /chem/ecd8a.i/020310a.b

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Data File	GEZ Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1036f3601.d	WAR091219-DDT	JAC03-FEB-2010 17:25		020310a		1.0		DDT
1037f3701.d	WAR091130-99 02	JAC03-FEB-2010 17:38		020310a		1.0		CLEAN
1038f3801.d	1202026314	JAC03-FEB-2010 17:50		946047		2010AR1262MDL-L	1.0 QC A	UPLOAD BOTH, USE BOTH
1039f3901.d	1202026315	JAC03-FEB-2010 18:02		946047		2010AR1262MDL-L	1.0 QC A	UPLOAD BOTH, USE BOTH
1040f4001.d	1243859001	JAC03-FEB-2010 18:15		946047		2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
1041f4101.d	1243859002	JAC03-FEB-2010 18:27		946047		2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH

042f4201.d	243859003	JAO	03-FEB-2010 18:39	1946047	2010AR1262MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
043f4301.d	243859004	JAO	03-FEB-2010 18:52	1946047	2010AR1262MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
044f4401.d	243859005	JAO	03-FEB-2010 19:04	1946047	2010AR1262MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
045f4501.d	243859006	JAO	03-FEB-2010 19:16	1946047	2010AR1262MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
046f4601.d	243859007	JAO	03-FEB-2010 19:29	1946047	2010AR1262MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
047f4701.d	243859008	JAO	03-FEB-2010 19:41	1946047	2010AR1262MDL-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
048f4801.d	WAR100203-60 02	JAO	03-FEB-2010 19:54		020310a	1.0		PASSES BOTH COLUMNS
049f4901.d	WAR091130-99 03	JAO	03-FEB-2010 20:06		020310a	1.0		CLEAN
050f5001.d	243865001	JAO	03-FEB-2010 20:18	1946047	2010MD1VECD81262-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
051f5101.d	243865002	JAO	03-FEB-2010 20:31	1946047	2010MD1VECD81262-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
052f5201.d	243865003	JAO	03-FEB-2010 20:43	1946047	2010MD1VECD81262-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
053f5301.d	243865004	JAO	03-FEB-2010 20:55	1946047	2010MD1VECD81262-L	1.0	QCQA	UPLOAD BOTH, USE BOTH
054f5401.d	WAR100203-60 03	JAO	03-FEB-2010 21:08		020310a	1.0		PASSES BOTH COLUMNS
055f5501.d	WAR091130-99 04	JAO	03-FEB-2010 21:20		020310a	1.0		CLEAN

Instrument Batch: /chem/ecd8a.i/020310a.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
056f5601.d	245679008	JAO	03-FEB-2010 21:33	1947574	10-1449	5.0	LANL	UPLOAD BOTH, USE HIGHER
057f5701.d	245679011	JAO	03-FEB-2010 21:45	1947574	10-1449	10.0	LANL	UPLOAD BOTH, USE HIGHER
058f5801.d	245686001	JAO	03-FEB-2010 21:57	1947574	10-1432	1.0	LANL	UPLOAD BOTH, USE HIGHER
059f5901.d	WAR100203-60 04	JAO	03-FEB-2010 22:10		020310a	1.0		PASSES BOTH COLUMNS
060f6001.d	WAR091130-99 05	JAO	03-FEB-2010 22:22		020310a	1.0		CLEAN
061f6101.d	1202030643	JAO	03-FEB-2010 22:34	1947944	245873	1.0	QC A	UPLOAD BOTH, USE HIGHER
062f6201.d	1202030644	JAO	03-FEB-2010 22:47	1947944	245873	1.0	QC A	UPLOAD BOTH, USE HIGHER
063f6301.d	245873001	JAO	03-FEB-2010 22:59	1947944	245873	50.0	GEEL	UPLOAD BOTH, USE HIGHER
064f6401.d	1202030645	JAO	03-FEB-2010 23:12	1947944	245873	50.0	QC A	UPLOAD BOTH, USE HIGHER
065f6501.d	1202030646	JAO	03-FEB-2010 23:24	1947944	245873	50.0	QC A	UPLOAD BOTH, USE HIGHER
066f6601.d	245873002	JAO	03-FEB-2010 23:36	1947944	245873	1.0	GEEL	UPLOAD BOTH, USE HIGHER

067f6701.d	WAR100203-60 05	JAO	03-FEB-2010 23:49		020310a	1.01		PASSES BOTH COLUMNS
068f6801.d	WAR091130-99 06	JAO	04-FEB-2010 00:01		020310a	1.01		CLEAN

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD8

DATE: 02/15/2010 METHOD: ECD8-F-8082-020310a.m OPERATOR:JAOC REVIEWED BY: _____
DATE: _____HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT DA699
ALUMINA LOT 1240553-A
COPPER LOT 236547-ACalibration & QC Information
Initial Calibration Dates: See Calibration History and Standards Log
Initial Calibration Std ID's: See Calibration History and Standards Log
GEL SOP GL-OA-E-040
EPA Method: 8082 Polychlorinated Biphenyls PCBs by Gas Chromatography
Sequence Number: /chem/ecd8a.i/021210.b Injection Volume: 1.0 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1001f0101.d	WAR100105-99 01	JAOC	112-FEB-2010 06:49		021210	1.01	CLEAN	
1002f0201.d	WAR100203-60 01	JAOC	112-FEB-2010 07:02		021210	1.01	PASSES BOTH COLUMNS	
1003f0301.d	WAR100201-54	JAOC	112-FEB-2010 07:14		021210	1.01	PASSES BOTH COLUMNS	
1004f0401.d	WAR091217-42	JAOC	112-FEB-2010 07:26		021210	1.01	PASSES BOTH COLUMNS	
1005f0501.d	WAR091217-48	JAOC	112-FEB-2010 07:38		021210	1.01	PASSES BOTH COLUMNS	
1006f0601.d	WAR100104-32	JAOC	112-FEB-2010 07:51		021210	1.01	PATTERN ONLY	
1007f0701.d	WAR100104-21	JAOC	112-FEB-2010 08:03		021210	1.01	PATTERN ONLY	
1008f0801.d	WAR100104-62	JAOC	112-FEB-2010 08:16		021210	1.01	PATTERN ONLY	
1009f0901.d	WAR100107-68	JAOC	112-FEB-2010 08:28		021210	1.01	PATTERN ONLY	
1010f1001.d	WAR091219-DDT	JAOC	112-FEB-2010 08:40		021210	1.01	DDT	
1011f1101.d	WAR100105-99 02	JAOC	112-FEB-2010 08:53		021210	1.01	CLEAN	
1012f1201.d	1202040223	JAOC	112-FEB-2010 09:05	951946	10-1543	1.01QC A	UPLOAD BOTH, USE HIGHER	
1013f1301.d	1202040224	JAOC	112-FEB-2010 09:18	951946	10-1543	1.01QC A	UPLOAD BOTH, USE HIGHER	
1014f1401.d	1246055005	JAOC	112-FEB-2010 09:30	951946	10-1545	1.01LANL	UPLOAD BOTH, USE HIGHER	
1015f1501.d	1246066001	JAOC	112-FEB-2010 09:42	951946	10-1543	1.01LANL	UPLOAD BOTH, USE HIGHER	

Instrument Batch: /chem/ecd8a.i/021210.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1016f1601.d	1246066002	JAOC	112-FEB-2010 09:55	951946	10-1543	1.01LANL	UPLOAD BOTH, USE HIGHER	
1017f1701.d	1246066003	JAOC	112-FEB-2010 10:07	951946	10-1543	1.01LANL	UPLOAD BOTH, USE HIGHER	

018f1801.d	246066004	JAO	12-FEB-2010 10:19	951946	10-1543	1.0	L	UPLD	BOTH, USE HIGHER
019f1901.d	246066005	JAO	12-FEB-2010 10:32	951946	10-1543	1.0	L	UPLD	BOTH, USE HIGHER
020f2001.d	246066006	JAO	12-FEB-2010 10:44	951946	10-1543	1.0	L	UPLD	BOTH, USE HIGHER
021f2101.d	WAR100203-60 02	JAO	12-FEB-2010 10:56		021210	1.0		PASSE	BOTH COLUMNS
022f2201.d	WAR100105-99 03	JAO	12-FEB-2010 11:09		021210	1.0		C	LEAN
023f2301.d	246318001	JAO	12-FEB-2010 11:21	951946	10-1564	1.0	L	UPLD	BOTH, USE HIGHER
024f2401.d	246318002	JAO	12-FEB-2010 11:34	951946	10-1564	1.0	L	UPLD	BOTH, USE HIGHER
025f2501.d	246318003	JAO	12-FEB-2010 11:46	951946	10-1564	1.0	L	UPLD	BOTH, USE HIGHER
026f2601.d	246330008	JAO	12-FEB-2010 11:58	951946	10-1567	1.0	L	UPLD	BOTH, USE HIGHER
027f2701.d	246330009	JAO	12-FEB-2010 12:11	951946	10-1567	1.0	L	UPLD	BOTH, USE HIGHER
028f2801.d	246463002	JAO	12-FEB-2010 12:23	951946	10-1634	1.0	L	UPLD	BOTH, USE HIGHER
029f2901.d	246463003	JAO	12-FEB-2010 12:35	951946	10-1634	5.0	L	DUSE,	NEEDS A 5X
030f3001.d	246463004	JAO	12-FEB-2010 12:48	951946	10-1634	1.0	L	UPLD	BOTH, USE HIGHER
031f3101.d	246463005	JAO	12-FEB-2010 13:00	951946	10-1634	5.0	L	UPLD	BOTH, USE HIGHER
032f3201.d	246477002	JAO	12-FEB-2010 13:13	951946	10-1647	1.0	L	DUSE,	NEEDS A 10X
033f3301.d	WAR100203-60 03	JAO	12-FEB-2010 13:25		021210	1.0		PASSE	BOTH COLUMNS
034f3401.d	WAR100105-99 04	JAO	12-FEB-2010 13:37		021210	1.0		C	LEAN
035f3501.d	246575003	JAO	12-FEB-2010 13:50	951946	10-1675	1.0	L	UPLD	BOTH, USE HIGHER

Instrument Batch: /chem/ecd8a.i/021210.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1036f3601.d	1202040225	JAO	12-FEB-2010 14:02	951946	10-1675	1.0	QC A	UPLD BOTH, USE HIGHER
1037f3701.d	1202040226	JAO	12-FEB-2010 14:14	951946	10-1675	1.0	QC A	UPLD BOTH, USE HIGHER
1038f3801.d	246575004	JAO	12-FEB-2010 14:27	951946	10-1675	1.0	LANL	UPLD BOTH, USE HIGHER
1039f3901.d	246463003	JAO	12-FEB-2010 14:39	951946	10-1634	25.0	LANL	UPLD BOTH, USE HIGHER
1040f4001.d	246477002	JAO	12-FEB-2010 14:51	951946	10-1647	10.0	LANL	UPLD BOTH, USE HIGHER
1041f4101.d	WAR100203-60 04	JAO	12-FEB-2010 15:04		021210	1.0		PASSES BOTH COLUMNS

Data File: /chem/ecd8a.i/021210.b/036b3601.d
Report Date: 15-Feb-2010 11:10

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/036b3601.d
Lab Smp Id: 1202040225 Client Smp ID: WST15-10-11621MS
Inj Date : 12-FEB-2010 14:02
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |1202040225|1|
Misc Info : |ECD82P_1S|951946|SVA|QC A|SOIL|MS|1|
Comment :
Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m
Meth Date : 15-Feb-2010 06:49 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d
Als bottle: 36 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1675.sub
Target Version: 3.50 Sample Matrix: Soil

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	6.57170	% 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			
2.486	2.486	0.000	7818097	90.0253	3.2	80.00-	120.00	100.00

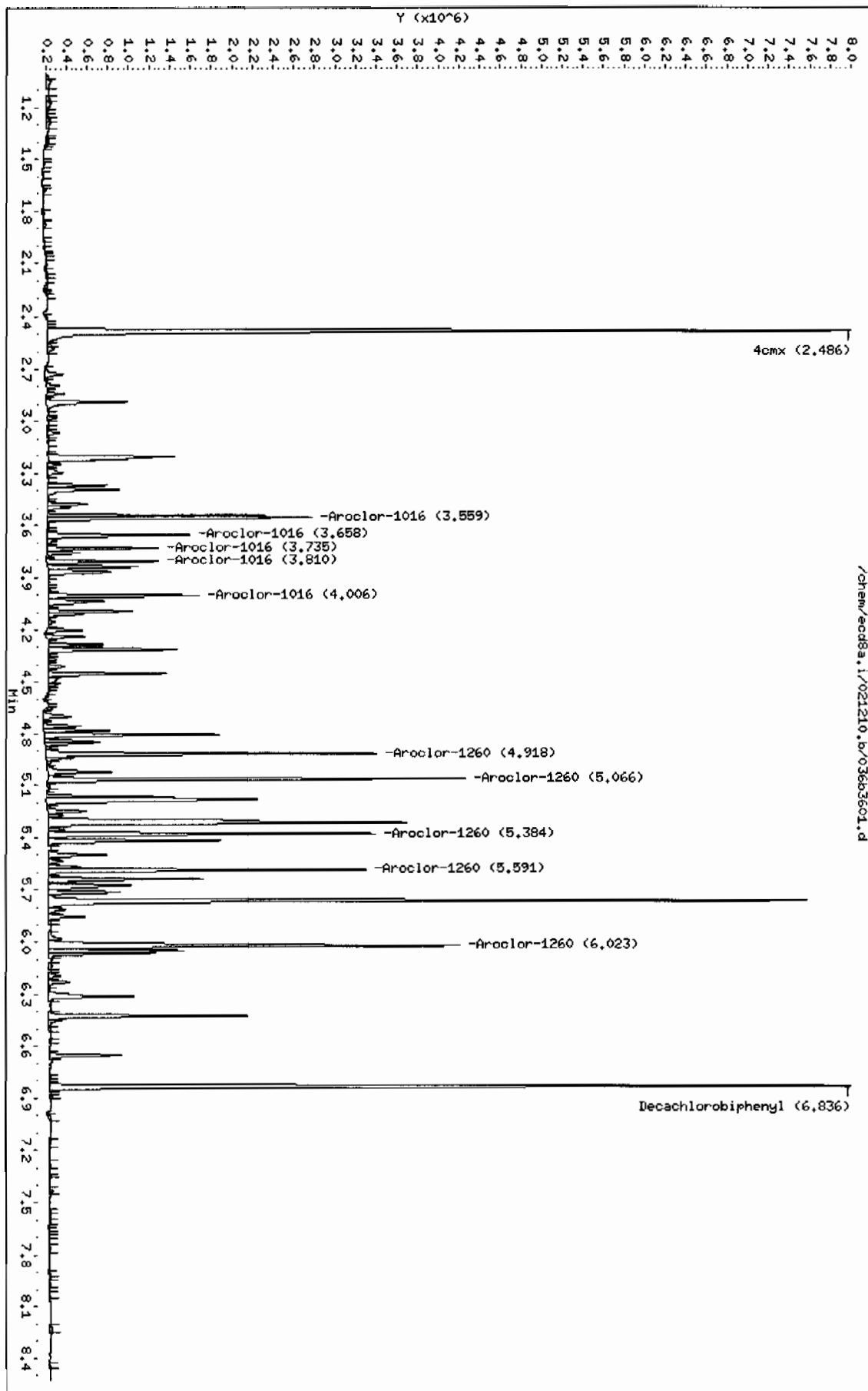
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.836	6.836	0.000	8399553	129.535	4.6	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.559	3.558	0.001	2136861	567.348	20.2	80.00-	120.00	100.00
3.658	3.658	0.000	1333132	534.444	19.0	45.12-	85.12	62.39
3.735	3.734	0.001	838835	553.507	19.7	19.91-	59.91	39.26
3.810	3.809	0.001	886981	594.028	21.1	18.22-	58.22	41.51
4.006	4.006	0.000	1183238	581.267	20.7	33.52-	73.52	55.37
Average of Peak Concentrations =					20.1			

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
7 Aroclor-1260					CAS #: 11096-82-5				
4.918	4.919	-0.001	2738229	670.409	23.9	80.00-	120.00	100.00	
5.066	5.068	-0.002	3114317	626.762	22.3	102.34-	142.34	113.73	
5.384	5.384	0.000	2651239	699.827	24.9	74.38-	114.38	96.82	
5.591	5.591	0.000	2645273	669.163	23.8	77.60-	117.60	96.61	
6.023	6.023	0.000	4408302	707.884	25.2	139.44-	179.44	160.99	
Average of Peak Concentrations =					24.0				

Data File: /chem/ecdb8a.i/021210.b/036b3601.d
Date: 12-FEB-2010 14:02
Client ID: MST15-10-11621MS
Sample Info: 1120204022611
Volume Injected (uL): 1.0
Column Phase: CLP2

Instrument: ecdb8a.i
Operator: JHOC
Column diameter: 0.25



Data File: /chem/ecd8a.i/021210.b/036f3601.d
Report Date: 15-Feb-2010 11:11

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd8a.i/021210.b/036f3601.d
Lab Smp Id: 1202040225 Client Smp ID: WST15-10-11621MS
Inj Date : 12-FEB-2010 14:02
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |1202040225|1|
Misc Info : |ECD82P_1S|951946|SVA|QC A|SOIL|MS|||
Comment :
Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m
Meth Date : 15-Feb-2010 06:50 jen01212 Quant Type: ESTD
Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.d
Als bottle: 36 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1675.sub
Target Version: 3.50 Sample Matrix: Soil

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	6.57170	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
2.255	2.252	0.003	15651204 119.106	4.2	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
6.245	6.245	0.000	12370057 123.724	4.4	80.00- 120.00	100.00

1 Aroclor-1016 CAS #: 12674-11-2						
2.812	2.811	0.001	2650281 568.166	20.2	80.00- 120.00	100.00
3.164	3.163	0.001	3250319 563.354	20.0	110.21- 150.21	122.64
3.308	3.306	0.002	1225834 499.484	17.8	32.76- 72.76	46.25
3.400	3.399	0.001	1272487 578.882	20.6	26.33- 66.33	48.01
3.562	3.561	0.001	1448968 461.138	16.4	47.15- 87.15	54.67
Average of Peak Concentrations =				19.0		

CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
7 Aroclor-1260			CAS #: 11096-82-5				
4.434	4.435	-0.001	4026930	597.559	21.3	80.00- 120.00	100.00
4.630	4.631	-0.001	6495755	633.127	22.5	131.14- 171.14	161.31
4.906	4.906	0.000	4108716	670.280	23.8	71.88- 111.88	102.03
5.077	5.078	-0.001	4204853	658.462	23.4	78.48- 118.48	104.42
5.489	5.490	-0.001	4689455	683.618	24.3	91.90- 131.90	116.45
Average of Peak Concentrations =			23.1				

Data File: /chem/eod8a.i/021210.b/036f3601.d

Date: 12-FEB-2010 14:02

Client ID: MST15-10-11621MS

Sample Info: 11202040225111

Volume Injected (uL): 1.0

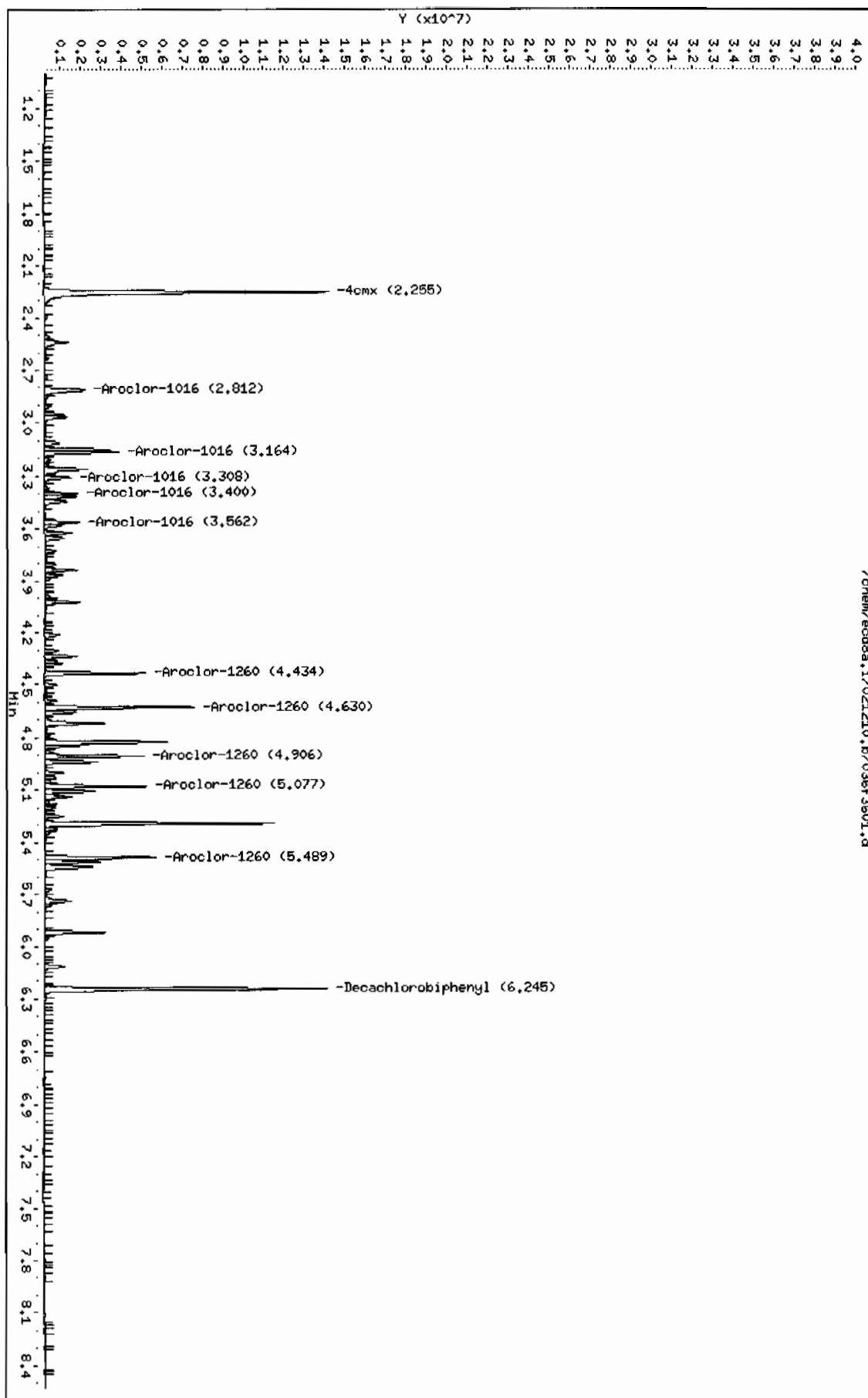
Column phase: CLP1

Instrument: eod8a.i

Operator: JHOC

Column diameter: 0.25

/chem/eod8a.i/021210.b/036f3601.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecd8a.i/021210.b/037b3701.d
 Lab Smp Id: 1202040226 Client Smp ID: WST15-10-11621MSD
 Inj Date : 12-FEB-2010 14:14
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |1202040226|1|
 Misc Info : |ECD82P_1S|951946|SVA|QC A|SOIL|MSD|1|1|
 Comment :
 Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m
 Meth Date : 15-Feb-2010 06:49 jen01212 Quant Type: ESTD
 Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d
 Als bottle: 37 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1675.sub
 Target Version: 3.50 Sample Matrix: Soil

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	6.57170	% 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		
2.486	2.486	0.000	7915555 91.1475	3.2	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.836	6.836	0.000	8112348 125.106	4.4	80.00- 120.00	100.00	
1 Aroclor-1016					CAS #: 12674-11-2		
3.559	3.558	0.001	2159261 573.296	20.4	80.00- 120.00	100.00	
3.659	3.658	0.001	1431513 573.884	20.4	45.12- 85.12	66.30	
3.734	3.734	0.000	873605 576.450	20.5	19.91- 59.91	40.46	
3.809	3.809	0.000	891892 597.317	21.3	18.22- 58.22	41.31	
4.006	4.006	0.000	1205896 592.398	21.1	33.52- 73.52	55.85	
Average of Peak Concentrations =				20.7			

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
=====						
7 Aroclor-1260			CAS #: 11096-82-5			
4.919	4.919	0.000	2742802	671.528	23.9 80.00- 120.00	100.00
5.067	5.068	-0.001	3222183	648.470	23.1 102.34- 142.34	117.48
5.384	5.384	0.000	2633939	695.261	24.8 74.38- 114.38	96.03
5.591	5.591	0.000	2702363	683.605	24.4 77.60- 117.60	98.53
6.024	6.023	0.001	4396008	705.910	25.2 139.44- 179.44	160.27
Average of Peak Concentrations =			24.3			

Data File: /chem/ecd8a.i/021210.b/037b3701.d

Date: 12-FEB-2010 14:14

Client ID: MST15-10-11621MSD

Sample Info: 1120204022611

Volume Injected (ul): 1.0

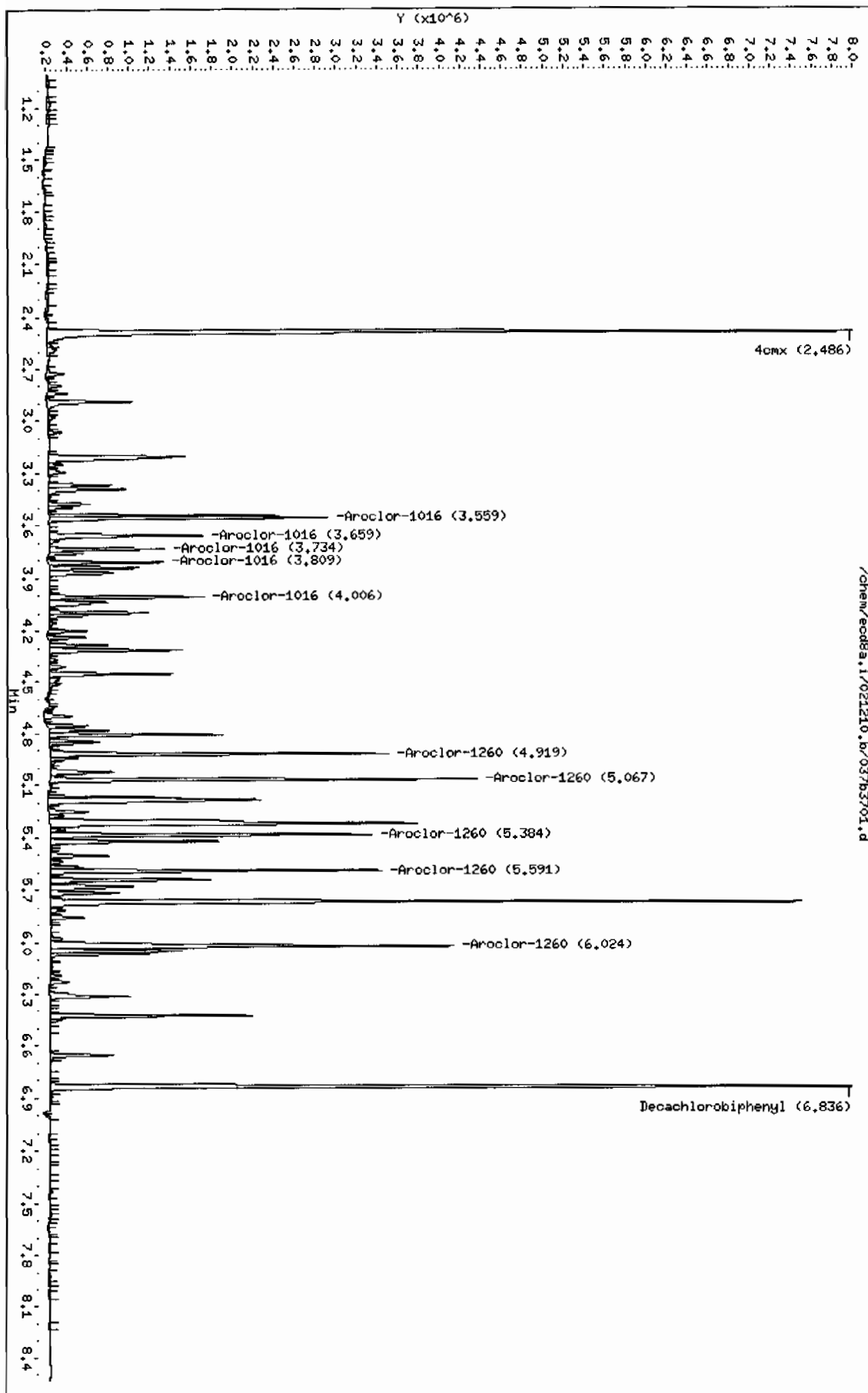
Column phase: CLP2

Instrument: ecd8a.i

Operator: JHOC

Column diameter: 0.25

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Data File: /chem/ecd8a.i/021210.b/037f3701.d
 Report Date: 15-Feb-2010 11:11

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/037f3701.d
 Lab Smp Id: 1202040226 Client Smp ID: WST15-10-11621MSD
 Inj Date : 12-FEB-2010 14:14
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |1202040226|1|
 Misc Info : |ECD82P_1S|951946|SVA|QC A|SOIL|MSD|1|1|
 Comment :
 Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m
 Meth Date : 15-Feb-2010 06:50 jen01212 Quant Type: ESTD
 Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.d
 Als bottle: 37 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1675.sub
 Target Version: 3.50 Sample Matrix: Soil

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	6.57170	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)		TARGET RANGE
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8							
2.254	2.252	0.002	14945127	113.732	4.0	80.00-	120.00 100.00
\$ 12 Decachlorobiphenyl CAS #: 2051-24-3							
6.245	6.245	0.000	12312625	123.149	4.4	80.00-	120.00 100.00
1 Aroclor-1016 CAS #: 12674-11-2							
2.813	2.811	0.002	2629777	563.770	20.1	80.00-	120.00 100.00
3.164	3.163	0.001	3389389	587.458	20.9	110.21-	150.21 128.89
3.307	3.306	0.001	1250969	509.726	18.2	32.76-	72.76 47.57
3.399	3.399	0.000	1315163	598.296	21.3	26.33-	66.33 50.01
3.562	3.561	0.001	1458448	464.155	16.5	47.15-	87.15 55.46
Average of Peak Concentrations =			19.4				

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====
7 Aroclor-1260					CAS #: 11096-82-5			
4.434	4.435	-0.001	4029047	597.873	21.3	80.00- 120.00	100.00	
4.630	4.631	-0.001	6356744	619.578	22.1	131.14- 171.14	157.77	
4.906	4.906	0.000	3997986	652.216	23.2	71.88- 111.88	99.23	
5.079	5.078	0.001	4228363	662.144	23.6	78.48- 118.48	104.95	
5.489	5.490	-0.001	4730617	689.619	24.6	91.90- 131.90	117.41	
Average of Peak Concentrations =					23.0			

Data File: /chem/ecd8a.i/021210.b/0373701.d

Date: 12-FEB-2010 14:14

Client ID: MS115-10-11621MSD

Sample Info: 1120204022611

Volume Injected (uL): 1.0

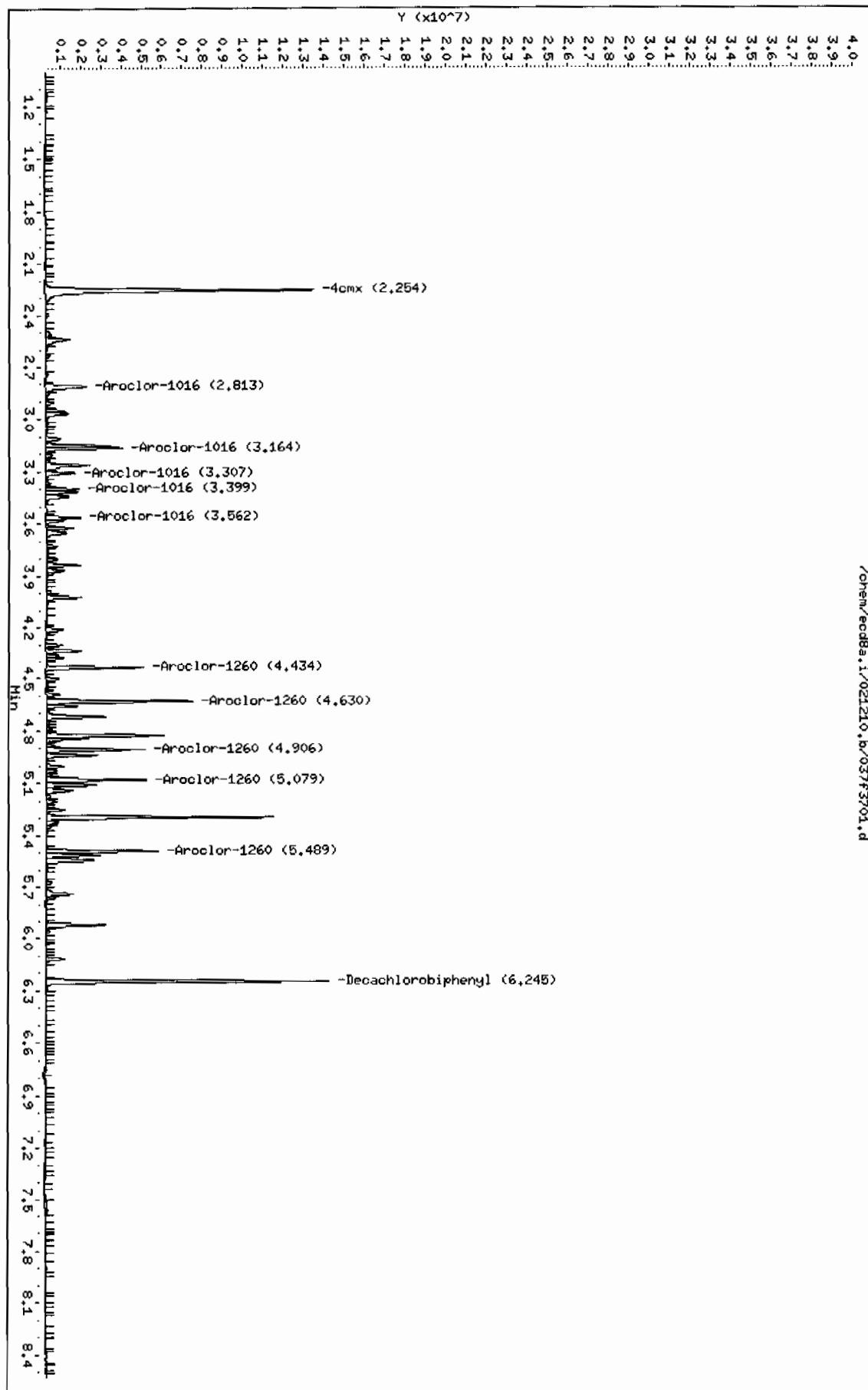
Column phase: CLP1

Instrument: ecd8a.i

Operator: JHOC

Column diameter: 0.25

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Prep Logbook

Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 951941
 Analyst: Andrew Schwemin
 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)
1202040223 MB	11-FEB-2010 22:01:00	30	H2SO4/KM2	2	9	1	0.03333	
1202040224 LCS	11-FEB-2010 22:01:00	30	H2SO4/KM2	2	9	1	0.03333	
246055005	11-FEB-2010 22:01:00	30.18	H2SO4/KM2	2	9	1	0.03313	
246066001	11-FEB-2010 22:01:00	30.02	H2SO4/KM2	2	9	1	0.03331	
246066002	11-FEB-2010 22:01:00	30.11	H2SO4/KM2	2	9	1	0.03321	
246066003	11-FEB-2010 22:01:00	30.06	H2SO4/KM2	2	9	1	0.03327	
246066004	11-FEB-2010 22:01:00	30.04	H2SO4/KM2	2	9	1	0.03329	
246066005	11-FEB-2010 22:01:00	30.12	H2SO4/KM2	2	9	1	0.0332	
246066006	11-FEB-2010 22:01:00	30.14	H2SO4/KM2	2	9	1	0.03318	
246318001	11-FEB-2010 22:01:00	30.03	H2SO4/KM2	2	9	1	0.0333	
246318002	11-FEB-2010 22:01:00	30.06	H2SO4/KM2	2	9	1	0.03327	
246318003	11-FEB-2010 22:01:00	30.07	H2SO4/KM2	2	9	1	0.03326	
246330008	11-FEB-2010 22:01:00	30.03	H2SO4/KM2	2	9	1	0.0333	
246330009	11-FEB-2010 22:01:00	30.13	H2SO4/KM2	2	9	1	0.03319	
246463002	11-FEB-2010 22:01:00	30.06	H2SO4/KM2	2	9	1	0.03327	
246463003	11-FEB-2010 22:01:00	30.03	H2SO4/KM2	2	9	1	0.0333	
246463004	11-FEB-2010 22:01:00	30.03	H2SO4/KM2	2	9	1	0.0333	
246463005	11-FEB-2010 22:01:00	30.03	H2SO4/KM2	2	9	1	0.0333	
246477002	11-FEB-2010 22:01:00	30.02	H2SO4/KM2	2	9	1	0.03331	
246575003	11-FEB-2010 22:01:00	30.01	H2SO4/KM2	2	9	1	0.03332	
1202040225 MS (246575003)	11-FEB-2010 22:01:00	30.07	H2SO4/KM2	2	9	1	0.03326	
1202040226 MSD (246575003)	11-FEB-2010 22:01:00	30.03	H2SO4/KM2	2	9	1	0.0333	
246575004	11-FEB-2010 22:01:00	30.12	H2SO4/KM2	2	9	1	0.0332	
Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:		
LCS	1202040224	PCB Laboratory Control	WEI00126-07	1	mL	Clean up Date: 2/11/10		
MS	1202040225	PCB Laboratory Control	WEI00126-07	1	mL	Clean up Initials: AJS		
MSD	1202040226	PCB Laboratory Control	WEI00126-07	1	mL	Verified By: AV		
SURR	All	PEST LOW LEVEL SURROGATE 200 UG/L	UEI00127-15	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	1265308	30	g			